



Mobil™ product summary
industrial lubricants

Mobil™

Performance by **ExxonMobil**



Foreword

This product summary guide (Status: June 2016) describes the Mobil industrial lubricants offered by ExxonMobil.

Each branded product or series has a brief description of its key features, typical applications, major OEM and EB approvals and some general data on important physical characteristics.

Mobil products are

- carefully formulated to meet today's demanding applications
- rigorously tested and approved to meet many major OEM and EB requirements
- manufactured to high standards and global consistency through the ExxonMobil Quality Integrity Management System
- widely available through local ExxonMobil lubricants distributors

For additional information regarding these products, please refer to specific Product Data Sheets and Material Safety Data Sheets. These may be obtained at www.exxonmobil.com or by calling your local ExxonMobil representative or distributor.

For more detailed technical information on these products, please contact the Mobil Technical Helpdesk at TechDeskEurope@exxonmobil.com

Due to continued product research and development, the information contained in this guide is subject to change without notification. The data is intended to be a guide only, and are not manufacturing specifications. Not all products are available in all markets.

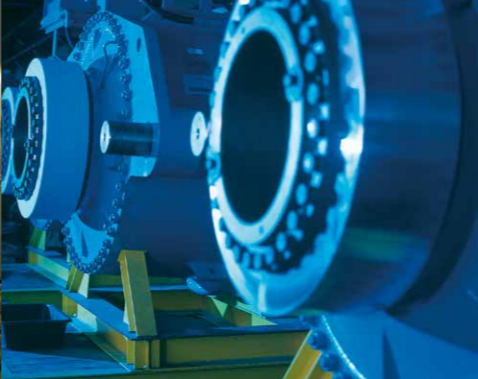
ExxonMobil cannot accept any responsibility or liability whatsoever for the correctness, completeness and accuracy of the information presented in this brochure.

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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Table listing various Mobil products and their corresponding page numbers, including categories like Airclean Oil, Mobil DTE, Mobilgear, Mobil Pegasus, Mobil SHC, and Mobil Vacuum Oil.



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC 824	32	31.5	5.9	135	0.83	-54	248	Siemens TLV 9013 04 & 05 Alstom HTGD 90117 MHI MS04-MA-CL003	Solar ES9-224 Class I GE GEK 32568G	GE GEK 101941A GE GEK 28143B
								<i>Synthetic high-performance turbine oil for land-based gas turbines. Offers outstanding high thermal and oxidative stability and deposit control as well as excellent low temperature fluidity. Naturally high Viscosity Index, excellent antiwear performance.</i>		
Mobil SHC 825	46	43.9	7.9	145	0.83	-45	248	Siemens TLV 9013 04 & 05 Alstom HTGD 90117	Solar ES9-224 Class I	
								<i>Synthetic high-performance turbine oil for land-based gas turbines. Offers outstanding high thermal and oxidative stability and deposit control as well as excellent low temperature fluidity. Naturally high Viscosity Index, excellent antiwear performance.</i>		
Mobil DTE 932 GT	32	31.5	6.1	141	0.84	-18	240		GE GEK 32568G	GE GEK 101941A GE GEK 28143 B
								<i>Next generation high-performance turbine oil designed for use in large frame turbines under severe operating conditions. Long oil life in combination with industry leading "keep clean" performance. Non-zinc antiwear system to meet the load carrying requirements of geared turbines (FZG = 10). Specifically formulated for General Electric Frame 3, 5, 6, 7 and 9 turbines with common bearing and hydraulic oil reservoir, where varnish control is most needed.</i>		
Mobil DTE 832	32	29.6	5.4	110	0.86	-30	224	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery: MAT 812101 MAT 812106 MAT 812108 GE GEK 28143A GE GEK 32568E GE GEK 32568G GE GEK 101941A GE GEK 107395a GE GEK 46506D Siemens Westinghouse PD-55125Z3 Solar ES 9-224, Class II JIS K-2213 Type 2 with additives (2006) DIN 51515-1: 2010-02 DIN 51515-2: 2010-02	GE GEK 28143B, GE GEK 32568C
								<i>Very high-quality turbine oil for use in steam turbines, gas turbines and combined gas turbines (CCGT) applications. Non-zinc antiwear system to meet the load carrying requirements of geared turbines (FZG = 9). Made from hydrotreated base stocks.</i>		
Mobil DTE 846	46	42.4	6.2	106	0.87	-30	244	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery: MAT 812102 MAT 812107 MAT 812109 Solar ES 9-224, Class II JIS K-2213 Type 2 w/Additives, 2006 DIN 51515-1: 2010-02 DIN 51515-2: 2010-02	GE GEK 28143A
								<i>Very high-quality turbine oil for use in steam turbines, gas turbines and combined gas turbines (CCGT) applications. Non-zinc antiwear system to meet the load carrying requirements of geared turbines (FZG = 9). Made from hydrotreated base stocks.</i>		









Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil DTE 732	32	30	5.5	117	0.85	-30	228	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117 LMZ letter No 510-019/108n	Siemens Industrial Turbo Machinery: MAT 812101 Siemens Westinghouse PD-55125Z3 GE GEK 27070 GE GEK 28143A GE GEK 32568G GE GEK 46506D JIS K-2213 Type 2 with additives DIN 51515-1: 2010-02 DIN 51515-2: 2010-02 ASTM 4304 Rev A Type I ASTM 4304 Rev A Type III China National Std GB 11120-89 L-TSA	ISO 8068 L-TGB 2006 ISO 8068 L-TGSB 2006
								<i>Premium-performance zinc free turbine lubricant specifically designed for use in gas and steam turbine applications. Based on very high-quality hydrotreated base stocks. Outstanding thermal and oxidation stability.</i>		
Mobil DTE 746	46	44	6.8	113	0.86	-30	230	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery: MAT 812102 GE GEK 28143A JIS K-2213 Type 2 with additives DIN 51515-1: 2010-02 DIN 51515-2: 2010-02 ASTM 4304 Rev A Type I ASTM 4304 Rev A Type III China National Std GB 11120-89 L-TSA	ISO 8068 L-TGB 2006 ISO 8068 L-TGSB 2006
								<i>Premium-performance zinc free turbine lubricant specifically designed for use in gas and steam turbine applications. Based on very high-quality hydrotreated base stocks. Outstanding thermal and oxidation stability.</i>		
Mobil DTE 732 M	32	31.3	5.8	131		-15	233	MS04-MA-CL001 MS04-MA-CL002 MS04-MA-CL005	JIS K-2213 Typ 2 (2006)	
								<i>Next generation high-performance turbine oil designed for use in Mitsubishi Heavy Industry (MHI) non-geared Single Shaft Heavy-duty Gas & Steam Turbines and Multi Shaft Gas Turbines. Meets MHI's requirements for long life – high temperature turbine applications, MS04-MA-CL005, through high-quality base oils and additive system designed to provide long oil life as well as the requirements of MS04-MA-CL001 and CL002.</i>		
Mobil DTE Oil Light	32	31	5.5	102	0.85	-18	218		DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 JIS K-2213 Typ 2 mit Additiven (1983)	GE GEK 270270 GE GEK 28143A GE GEK 46506D
								<i>Premium-performance circulation oil for steam and hydro turbine sets. Also for continuous lubrication of plain and antifriction bearings. High thermal stability and rapid separation from water.</i>		
Mobil DTE Oil Medium	46	44.5	6.9	98	0.86	-15	221		DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 JIS K-2214 Type 2 with additives (1983)	GE GEK 28143A
								<i>Premium-performance circulation oil for steam and hydro turbine sets. Also for continuous lubrication of plain and antifriction bearings. High thermal stability and rapid separation from water.</i>		






Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil DTE Oil Heavy Medium	68	65.1	8.7	95	0.87	-15	223	ABB Turbo HZTL 90617 ABB Turbo HZTL 90572	DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 JIS K-2214 Type 2 with additives (1983)	ABB Turbo HZTL 90617 ABB Turbo HZTL 90572	<i>Premium-performance circulation oil for steam and hydroturbine sets. Also for continuous lubrication of plain and antifriction bearings. High thermal stability and rapid separation from water.</i>
Mobil DTE Oil Heavy	100	95.1	10.9	92	0.88	-15	237		DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 DIN 51524-1: 2006-09		<i>Premium-performance circulation oil for steam and hydroturbine sets. Also for continuous lubrication of plain and antifriction bearings. High thermal stability and rapid separation from water.</i>
Teresstic T 32	32	32	5.4	100	0.86	-30	222	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101 China National Standard GB 11120-89 L-TSA GE GEK 46506D DIN 51515-1: 2010-02 JIS K-2213 Type 2 with additives (2006)	GE GEK 270270 GE GEK 28143A	<i>High-quality turbine and circulation system oil. Designed for steam and light duty stationary gas turbines. Also land-based and marine steam and hydro-turbines.</i>
Teresstic T 46	46	46	6.8	100	0.87	-30	218	Siemens TLV 9013 04, Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102 China National Standard GB 11120-89 L-TSA DIN 51515-1: 2010-02 JIS K-2213 Type 2 with additives (2006)	GE GEK 28143A	<i>High-quality turbine and circulation system oil. Designed for steam and light duty stationary gas turbines. Also land-based and marine steam and hydro-turbines.</i>
Teresstic T 68	68	68	8.5	95	0.87	-30	220		China National Standard GB 11120-89 L-TSA DIN 51515-1: 2010-02 JIS K-2213 Type 2 with additives (2006)		<i>High-quality turbine and circulation system oil. Designed for steam and light duty stationary gas turbines. Also land-based and marine steam and hydro-turbines.</i>








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		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil SHC 624 	32	32	6.3	148	0.85	-57	236	SEW Eurodrive: SEW IG CLP HC 32, SEW SG CLP HC 32	AGMA 9005 EO2_EP ISO 12925-1 CKB		<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>
Mobil SHC 626 	68	68	11.6	165	0.86	-51	225	SEW Eurodrive: SEW IG CLP HC 68, SEW SG CLP HC 68 Fives Cincinnati P-63 & P-80	AGMA 9005 EO2-EP ISO 12925-1 CKD		<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>
Mobil SHC 627 	100	100	15.3	162	0.86	-45	235	Fives Cincinant P-76	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD		<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>
Mobil SHC 629 	150	150	21.1	166	0.86	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A36. SEW Eurodrive: SEW IG CLP HC 150 & SEW SG CLP HC 150 Fives Cincinant P-77	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD		<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>
Mobil SHC 630 	220	220	28.5	169	0.87	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A35. DESCH ZG 30 gear unit SEW Eurodrive: SEW IG CLP HC 220 & SEW SG CLP HC 220.	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD		<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>
Mobil SHC 632 	320	320	38.5	172	0.87	-42	225	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A34. SEW Eurodrive: SEW IG CLP HC 320.	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD		<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>

* The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6 percent efficiency compared with the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
 Mobil SHC 634	460	460	50.7	174	0.87	-39	228	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A33. SEW Eurodrive: SEW IG CLP HC 460 & SEW SG CLP HC 460 GE Transportation Traction Motor GED50E32 AC	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>									
 Mobil SHC 636	680	680	69	181	0.87	-39	225	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A32. SEW Eurodrive: SEW IG CLP HC 680. Fives Cincinnati P-34	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1:1996 CKD	
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>									
 Mobil SHC 639	1000	1000	98.8	184	0.87	-33	222	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A31. SEW Eurodrive: SEW IG CLP HC 1000, Fives Cincinnati P-78	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1:1996 CKD	
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and antifriction bearings.</i>									
Mobil Vacuoline 128	150	150	14.8	96	0.89	-9	280		SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG MORGOIL-Lubricant Spec Std Lubricant SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
	<i>Extra high-quality circulation oil for the lubrication of plain bearings, operating with heavy water contamination. Suitable for use in Morgoil rolling mills. Outstanding demulsibility.</i>									
Mobil Vacuoline 133	220	220	18.8	95	0.89	-6	288		SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG MORGOIL-Lubricant Spec Std Lubricant SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
	<i>Extra high-quality circulation oil for the lubrication of plain bearings, operating with heavy water contamination. Suitable for use in Morgoil rolling mills. Outstanding demulsibility.</i>									

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		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Vacuoline 137	320	320	23.9	95	0.9	-9	286		SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG MORGOIL-Lubricant Spec Std Lubricant SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
	<i>Extra high-quality circulation oil for the lubrication of plain bearings, operating with heavy water contamination. Suitable for use in Morgoil rolling mills. Outstanding demulsibility.</i>									
Mobil Vacuoline 146	460	460	30.1	95	0.9	-6	296		SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
	<i>Extra high-quality circulation oil for the lubrication of plain bearings, operating with heavy water contamination. Suitable for use in Morgoil rolling mills. Outstanding demulsibility.</i>									
Mobil Vacuoline 148	680	680	36.7	91	0.91	-6	318		SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 3: 2009-07	
	<i>Extra high-quality circulation oil for the lubrication of plain bearings, operating with heavy water contamination. Suitable for use in Morgoil rolling mills. Outstanding demulsibility.</i>									
Mobil Vacuoline 525		89	10.7	99	0.88	-24	264	DANIELI Type 21-0.002117.R BGV No Twist Stand Block-TMB/TFS Rev 14	MORGOIL „No twist rod mill“ Lubricants Specification	
	<i>Extra high-performance heavy-duty circulation oil requiring antiwear properties requiring of FZG up to 12 fail load stage. Meets the critical requirements of No-Twist Rod Mills by Morgan and Danielli. Has excellent water demulsibility. Suitable for gears and bearings.</i>									
Mobil Vacuoline 528	150	146	14.4	96	0.89	-21	272			
	<i>Extra high-performance heavy-duty circulation oil requiring antiwear properties requiring of FZG up to 12 fail load stage. Has excellent water demulsibility. Suitable for gears and bearings.</i>									
Mobil Vacuoline 533	220	215	18.8	96	0.89	-15	284			
	<i>Extra high-performance heavy-duty circulation oil requiring antiwear properties requiring of FZG up to 12 fail load stage. Has excellent water demulsibility. Suitable for gears and bearings.</i>									
Mobil Vacuoline 537	320	309	24.4	96	0.89	-12	288			
	<i>Extra high-performance heavy-duty circulation oil requiring antiwear properties requiring of FZG up to 12 fail load stage. Has excellent water demulsibility. Suitable for gears and bearings.</i>									
Mobil Vacuoline 546	460	453	29.4	95	0.9	-12	286			
	<i>Extra high-performance heavy-duty circulation oil requiring antiwear properties requiring of FZG up to 12 fail load stage. Has excellent water demulsibility. Suitable for gears and bearings.</i>									

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Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil SHC Gear 150 	150	150	22.2	176	0.86	-54	233	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A36, SEW Eurodrive SEW IG CLP HC 150	AGMA 9005-E02-EP, DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD, ISO 12925-1 Typ CKT		Supreme-performance, synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.
Mobil SHC Gear 220 	220	220	30.4	180	0.86	-45	233	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A35, SEW Eurodrive SEW IG CLP HC 220	AGMA 9005-E02-EP, DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD, ISO 12925-1 Typ CKT		Supreme-performance, synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.
Mobil SHC Gear 320 	320	320	40.6	181	0.86	-48	233	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A34, SEW Eurodrive SEW IG CLP HC 320	AGMA 9005-E02-EP, DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD		Supreme-performance, synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.
Mobil SHC Gear 460 	460	460	54.1	184	0.86	-48	234	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A33, SEW Eurodrive SEW IG CLP HC 460	AGMA 9005-E02 EP, DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD		Supreme-performance, synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.
Mobil SHC Gear 680 	680	680	75.5	192	0.86	-42	234	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A32, SEW Eurodrive SEW IG CLP HC 680	AGMA 9005-E02-EP, DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD		Supreme-performance, synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.
Mobil SHC Gear 3200		3200	183	165	0.89	-9	230		General Electric Transportation GED50E25C Traction Motor		Very high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and antifriction bearings. Does not contain any solvent.
Mobil SHC Gear 6800		8200	365	180	0.9	-6	230		General Electric Transportation GED50E25B DC Traction Motor		Very high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and antifriction bearings. Does not contain any solvent.

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		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil SHC Gear 22M		22000	700	180	0.89	6	240				Ultra high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and antifriction bearings. Solvent free
Mobilgear XMP 150	150	150	14.6	96	0.9	-24	258	Hansen	ISO L-CKC, (ISO 12925-1, 1996)		Extra high-performance industrial gear oil for extreme conditions. Recommended for heavily loaded gearboxes with surface-hardened tooth metallurgies subject to micropitting.
Mobilgear XMP 220	220	220	18.8	96	0.9	-24	272	Hansen Jahnel-Kestermann	AGMA 9005-E02 EP, ISO L-CKC, (ISO 12925-1, 1996)		Extra high-performance industrial gear oil for extreme conditions. Recommended for heavily loaded gearboxes with surface-hardened tooth metallurgies subject to micropitting.
Mobilgear XMP 320	320	320	24.1	96	0.9	-18	268	Hansen Jahnel-Kestermann	AGMA 9005-E02 EP, ISO L-CKC, (ISO 12925-1, 1996)		Extra high-performance industrial gear oil for extreme conditions. Recommended for heavily loaded gearboxes with surface-hardened tooth metallurgies subject to micropitting.
Mobilgear XMP 460	460	460	30.6	96	0.91	-12	270	Hansen Jahnel-Kestermann	AGMA 9005-E02 EP, ISO L-CKC, (ISO 12925-1, 1996)		Extra high-performance industrial gear oil for extreme conditions. Recommended for heavily loaded gearboxes with surface-hardened tooth metallurgies subject to micropitting.
Mobilgear 600 XP 68	68	68	8.8	97	0.88	-27	230		AGMA 9005-E02 2 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 68		Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.
Mobilgear 600 XP 100	100	100	11.2	97	0.88	-24	230	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A17, Müller- Weingarten DT 55 005 CLP 100 RENK B19828 300	AGMA 9005-E02 3 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 100		Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.
Mobilgear 600 XP 150	150	150	14.7	97	0.89	-24	230	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A16, SIEMENS AG Flender gear units, T 7300, Table E-am, Flender Code No. E76, Müller- Weingarten DT 55 005 CLP 150 RENK B19828 400	AGMA 9005-E02 4 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 150		Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.

* The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6 percent efficiency compared with the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.





Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilgear 600 XP 220	220	220	19	97	0.89	-18	240	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A15, Müller- Weingarten DT 55 005 CLP 220 RENK B19828 600	AGMA 9005-E02 5 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 220		<i>Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>
Mobilgear 600 XP 320	320	320	24.1	96	0.9	-15	240	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A14, Müller- Weingarten DT 55 005 CLP 320	AGMA 9005-E02 6 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 320		<i>Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>
Mobilgear 600 XP 460	460	460	30.6	95	0.9	-15	240	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A13, Müller- Weingarten DT 55 005 CLP 460	AGMA 9005-E02 7 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ KKC 460		<i>Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>
Mobilgear 600 XP 680	680	680	39.2	95	0.91	-9	285	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A12	DIN 51517-3: 2009-06, ISO 12925-1 Typ CKC 680		<i>Extra high-performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>
Mobil Glygoyle 11		85	11.5	125	1.01 (at 20°C)	-45	226				<i>High-performance, poly-alkylene-glycol (PAG) based lubricant. For use in extreme temperature gear, bearing and circulation applications. Not miscible with mineral oils. Lubricant does have limitations with respect to compatibility with seal and coating materials, some varieties of light metal alloys and other lubricants. Before applying, contact the original equipment manufacturer for specific advice on the application.</i>
Mobil Glygoyle 22		177	25.1	175	1.01 (at 20°C)	-41	229				<i>High-performance, poly-alkylene-glycol (PAG) based lubricant. For use in extreme temperature gear, bearing and circulation applications. Not miscible with mineral oils. Lubricant does have limitations with respect to compatibility with seal and coating materials, some varieties of light metal alloys and other lubricants. Before applying, contact the original equipment manufacturer for specific advice on the application.</i>
Mobil Glygoyle 30		224	30.9	180	1.01 (at 20°C)	-41	221				<i>High-performance, poly-alkylene-glycol (PAG) based lubricant. For use in extreme temperature gear, bearing and circulation applications. Not miscible with mineral oils. Lubricant does have limitations with respect to compatibility with seal and coating materials, some varieties of light metal alloys and other lubricants. Before applying, contact the original equipment manufacturer for specific advice on the application.</i>
Mobil Glygoyle 220	220	220	38.1	225	1.08	-33	265	NSF-H1-Registration Number 136642, Fives Cincinnati P-39	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricants are not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and rolling contact bearings in wide variety of applications.</i>

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Glygoyle 320	320	320	55.2	240	1.08	-33	265	NSF-H1-Registration Number 136643	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.</i>
Mobil Glygoyle 460	460	460	77.2	250	1.08	-33	265	NSF-H1-Registration Number 136467, Fives Cincinnati P-39	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.</i>
Mobil Glygoyle 680	680	680	112.4	265	1.08	-33	265	NSF-H1-Registration Number 136468	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.</i>






Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Vactra Oil No. 1	32	32				-30	216	Fives Cincinnati P-53			
			<i>Premium-quality lubricant for the lubrication of horizontal slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>								
Mobil Vactra Oil No. 2	68	68				-18	228	Fives Cincinnati P-47			
			<i>Premium-quality lubricant for the lubrication of horizontal slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>								
Mobil Vactra Oil No. 3	150	156				-6	248				
			<i>Premium-quality lubricant for the lubrication of horizontal and vertical slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>								
Mobil Vactra Oil No. 4	220	221				-3	240	Fives Cincinnati P-50			
			<i>Premium-quality lubricant for the lubrication of horizontal and vertical slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>								






Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil SHC 524	32	32	6.4	144	0.85	-56	234	Denison HF-0, Denison HF-1, Denison HF-2			
									<i>Zinc-containing synthetic high-performance antiwear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum antiwear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>		
Mobil SHC 525	46	46	8.5	154	0.85	-54	238	Denison HF-0, Denison HF-1, Denison HF-2			
									<i>Zinc-containing synthetic high-performance antiwear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum antiwear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>		
Mobil SHC 526	68	68	11.5	158	0.85	-53	240	Denison HF-0, Denison HF-1, Denison HF-2			
									<i>Zinc-containing synthetic high-performance antiwear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum antiwear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>		
Mobil DTE 10 Excel 15 	15	15.8	4.1	168	0.84	-54	182		DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV		
										<i>Zinc- and silikon-free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</i>	
Mobil DTE 10 Excel 22 	22	22.4	5.07	164	0.84	-54	224		DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV		
										<i>Zinc free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</i>	
Mobil DTE 10 Excel 32 	32	32.7	6.6	164	0.85	-54	250	Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S) Denison HF-2	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK, Bosch-Rexroth RE 90220-1		
										<i>Zinc free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</i>	
Mobil DTE 10 Excel 46 	46	45.6	8.5	164	0.85	-45	232	Arburg Hydraulic fluid Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S), Fives Cincinnati P-70	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK VG46W (JCMAS P 041:2004), Bosch-Rexroth RE 90220-1, Krauss-Maffei hydraulic Oil		
										<i>Zinc- and silikon-free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</i>	

* Energy efficiency relates solely to the fluid performance when compared to ExxonMobil's standard hydraulic fluids. The technology used allows up to 6 % increase in hydraulic pump efficiency compared to Mobil DTE 20 series when tested in standard hydraulic applications. The energy efficiency claim for this product is based on test results on the use of the fluid conducted in accordance with all applicable industry standards and protocols. In case of queries, please consult TechDeskEurope@exxonmobil.com

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil DTE 10 Excel 68 	68	68.4	11.2	156	0.86	-39	240	Denison HF-0, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S), Fives Cincinnati P-69 STROMAG AG TM-000 327	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, Bosch-Rexroth RE 90220-1		<p>Zinc free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</p>
Mobil DTE 10 Excel 100 	100	99.8	13	127	0.88	-33	258		DIN 51524-2: 2006-09		<p>Zinc free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</p>
Mobil DTE 10 Excel 150 	150	156	17.2	120	0.88	-30	256	Ortlinghaus-Werke GmbH on 9.2.10	DIN 51524-2: 2006-09		<p>Zinc- and silikon-free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</p>
Mobil DTE 22	22	21	4.5	98	0.86	-30	200		DIN 51524-2 2006-09		<p>Zinc-containing premium-quality antiwear industrial hydraulic fluid. Optimum balance of high-quality base stocks with antiwear agents for maximised keep clean and antiwear protection. Long service life and good filterability even in the presence of water.</p>
Mobil DTE 24	32	31.5	5.3	98	0.87	-27	220	Denison HF-0, Vickers I-286-S, Vickers M-2950-S Five Cincinnati P-68	DIN 51524-2 2006-09		<p>Zinc-containing premium-quality antiwear industrial hydraulic fluid. Optimum balance of high-quality base stocks with antiwear agents for maximised keep clean and antiwear protection. Long service life and good filterability even in the presence of water.</p>
Mobil DTE 25	46	44.2	6.7	98	0.88	-27	232	Denison HF-0, Vickers I-286-S, Vickers M-2950-S, Husky HS 207 Fives Cincinnati P-70	DIN 51524-2 2006-09		<p>Zinc-containing premium-quality antiwear industrial hydraulic fluid. Optimum balance of high-quality base stocks with antiwear agents for maximised keep clean and antiwear protection. Long service life and good filterability even in the presence of water.</p>
Mobil DTE 26	68	71.2	8.5	98	0.88	-21	236	Denison HF-0, Vickers I-286-S, Vickers M-2950-S Fives Cincinnati P-69	DIN 51524-2 2006-09		<p>Zinc-containing premium-quality antiwear industrial hydraulic fluid. Optimum balance of high-quality base stocks with antiwear agents for maximised keep clean and antiwear protection. Long service life and good filterability even in the presence of water.</p>
Mobil DTE 27	100	95.3	10.9	98	0.89	-21	248				<p>Zinc-containing premium-quality antiwear industrial hydraulic fluid. Optimum balance of high-quality base stocks with antiwear agents for maximised keep clean and antiwear protection. Long service life and good filterability even in the presence of water.</p>

* Energy efficiency relates solely to the fluid performance when compared to ExxonMobil's standard hydraulic fluids. The technology used allows up to 6 % increase in hydraulic pump efficiency compared to Mobil DTE 20 series when tested in standard hydraulic applications. The energy efficiency claim for this product is based on test results on the use of the fluid conducted in accordance with all applicable industry standards and protocols. In case of queries, please consult TechDeskEurope@exxonmobil.com

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications				
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring		
Mobil SHC Hydraulic EAL 32 	32	31.1	6.2	152	0.94	-33	282	EU Eco Label Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-2, DENISON HF-6 USDA Certified BioBased Product	ISO ISO L-HEES, (ISO 15380, 2011), JCMAS HKB VG32L (JCMAS P042:2004), US EPA VGP:2013, WGK 1 - Low Hazard to Waters		<p>Mobil SHC™ Hydraulic EAL fluids are high performance biodegradable synthetic hydraulic oils for modern hydraulic systems. The fluids are designed to meet the demand for environmentally acceptable hydraulic lubricants. Mobil SHC Hydraulic EAL fluids are exceptionally high quality, wide-temperature, shear-stable hydraulic oils with controlled low-temperature pumpability properties and maximised anti-wear protection for hydraulic systems operating under high load and high pressures.</p>	
Mobil SHC Hydraulic EAL 46 	46	43.3	7.7	149	0.93	-33	298	EU Eco Label Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-2, DENISON HF-6 Eaton Corporation Brochure No. 03-401-2010, Rev 1, USDA Certified BioBased Product	ISO ISO L-HEES, (ISO 15380, 2011), JCMAS HKB VG46L (JCMAS P042:2004), US EPA VGP:2013, WGK 1 - Low Hazard to Waters		<p>Mobil SHC™ Hydraulic EAL fluids are high performance biodegradable synthetic hydraulic oils for modern hydraulic systems. The fluids are designed to meet the demand for environmentally acceptable hydraulic lubricants. Mobil SHC Hydraulic EAL fluids are exceptionally high quality, wide-temperature, shear-stable hydraulic oils with controlled low-temperature pumpability properties and maximised anti-wear protection for hydraulic systems operating under high load and high pressures.</p>	
Mobil SHC Hydraulic EAL 68 	68	71	11	144	0.92	-27	292	EU Eco Label Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-2, DENISON HF-6 Eaton Corporation Brochure No. 03-401-2010, Rev 1, USDA Certified BioBased Product	ISO ISO L-HEES, (ISO 15380, 2011), US EPA VGP:2013, WGK 1 - Low Hazard to Waters		<p>Mobil SHC™ Hydraulic EAL fluids are high performance biodegradable synthetic hydraulic oils for modern hydraulic systems. The fluids are designed to meet the demand for environmentally acceptable hydraulic lubricants. Mobil SHC Hydraulic EAL fluids are exceptionally high quality, wide-temperature, shear-stable hydraulic oils with controlled low-temperature pumpability properties and maximised anti-wear protection for hydraulic systems operating under high load and high pressures.</p>	
Univis HVI 13		13.5	5.3	404		-60	101				<p>Zinc-containing premium-performance antiwear hydraulic oil characterised by very high VI. Possess high resistance to viscosity change. Applications include severe hydraulic systems used in hydrostatic transmissions and dash pots, fine instruments and servo valves.</p>	
Univis HVI 26		25.8	9.3	376		-60	103				<p>Zinc-containing premium-performance antiwear hydraulic oil characterised by very high VI. Possess high resistance to viscosity change. Applications include severe hydraulic systems used in hydrostatic transmissions and dash pots, fine instruments and servo valves.</p>	
Univis N 32	32	32	6.4	151	0.88	-48	208		DIN 51524-3 2006-9, ISO L-HV (ISO 11158, 1997)	Denison HF-0, Eaton I-286-S, Eaton M-2950-S		<p>Zinc-containing premium high-performance antiwear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.</p>
Univis N 46	46	46	8.2	152	0.88	-48	216		DIN 51524-3 2006-9, ISO L-HV (ISO 11158, 1997)	Denison HF-0, Eaton I-286-S, Eaton M-2950-S		<p>Zinc-containing premium high-performance antiwear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.</p>

** Energy efficiency relates solely to the fluid performance when compared to ExxonMobil's standard hydraulic fluids. The technology used provides up to 3.6 % efficiency compared to Mobil DTE 25 when tested in a Eaton 25VMQ vane pump under controlled conditions in accordance with applicable industry standards and protocols. Efficiency improvements will vary based on operating conditions and application.

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Univis N 68	68	68	11	151	0.88	-42	222		DIN 51524-3 2006-9, ISO L-HV (ISO 11158, 1997)	Denison HF-0, Eaton I-286-S, Eaton M-2950-S
Nuto H 32	32	32	5.4	104	0.87	-24	212	Denison HF-0	DIN 51524-2 2006-09, ISO L-HM (ISO 11158, 1997)	Vickers I-286-S & M-2950-S
Nuto H 46	46	46	6.7	104	0.88	-24	226	Denison HF-0	DIN 51524-2 2006-09, ISO L-HM (ISO 11158, 1997)	Vickers I-286-S & M-2950-S
Nuto H 68	68	68	8.5	107	0.88	-18	234	Denison HF-0	DIN 51524-2 2006-09, ISO L-HM (ISO 11158, 1997)	Vickers I-286-S & M-2950-S
Mobil Hydraulic Oil HLPD 32	32	32	5.4	102	0.87	-27	205		DIN 51524-2: 2006-09	Recommended by ExxonMobil for use in applications requiring
Mobil Hydraulic Oil HLPD 46	46	46	6.7	97	0.88	-27	210		DIN 51524-2: 2006-09	
Mobil Hydraulic Oil HLPD 68	68	68	8.6	99	0.88	-24	225		DIN 51524-2: 2006-09	
Mobil Hydraulic Oil M 46	46	46	6.8		0.875	-27	210	Müller- Weingarten	DIN 51524-2: 2006-09	
Mobil Pyrotec HFC 46	46	46	9.5	195		-50		Factory Mutual Global Standard 6930, ISO L-HFC (ISO/DIS 12922)	Factory Mutual-Standard 6930, ISO L-HFC (ISO/DIS 12922)	
Mobil Pyrotec HFD 46	46	43	5			-20	246	Factory Mutual Global Standard 6930	FM Global Standard 6930	

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil 600 W Super Cylinder Oil	460	460	30.5	95	0.91	-6	282			
Mobil Extra Hecla Super Cylinder Oil Mineral	1000	1000	42	80	0.92	3	288			



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Gargoyle Arctic SHC 224	32	29	5.6	132	0.82	-54	230	NSF-H1- Registration Number 123 194	FDA 21 CFR 178.3570		Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.
Mobil Gargoyle Arctic SHC 226 E	68	69	10.1	136	0.83	-50	266	NSF-H1-Registration Number 133 449	FDA 21 CFR 178.3570		Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.
Mobil Gargoyle Arctic SHC 228	100	97	13.7	147	0.84	-45	255	NSF-H1- Registration Number 138 669	FDA 21 CFR 178.3570		Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.
Mobil Gargoyle Arctic SHC 230	220	220	25	149	0.85	-39	260	NSF-H1- Registration Number 123 197	FDA 21 CFR 178.3570		Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.
Mobil Gargoyle Arctic SHC NH 68	68	64	8.5	111	0.85	-54	211				Synthetic refrigeration compressor oil. Recommended for screw and reciprocating compressors, using ammonia as refrigerant. Compatible with mineral lubricants.
Mobil Gargoyle Arctic Oil 155	32	32			0.91	-42	190				High-performance naphthenic mineral oil for refrigeration compressors. Low pour point and excellent fluidity at very low temperatures. Food freezing, cold storage plants and marine applications. For ammonia refrigerant but also selected halo-carbons. Not for HFC refrigerants.
Mobil Gargoyle Arctic C Heavy	46	46			0.91	-39	195				High-performance naphthenic mineral oil for refrigeration compressors. Low pour point and excellent fluidity at very low temperatures. Food freezing, cold storage plants and marine applications. For ammonia refrigerant but also selected halocarbons. Not for HFC refrigerants.
Mobil Gargoyle Arctic Oil 300	68	68			0.91	-36	200				High-performance naphthenic mineral oil for refrigeration compressors. Low pour point and excellent fluidity at very low temperatures. Food freezing, cold storage plants and marine applications. For ammonia refrigerant but also selected halocarbons. Not for HFC refrigerants.
Mobil EAL Arctic 22	22	23.2	4.6	130	1.00	-57	236				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation.



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil EAL Arctic 22 cc	22	24	4.8	129	0.99	-54	236				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation. Especially suitable for Copeland compressors.
Mobil EAL Arctic 32	32	34.2	5.8	115	0.98	-48	236				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation.
Mobil EAL Arctic 46	46	49.2	7.3	115	0.97	-42	230				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation.
Mobil EAL Arctic 68	68	68	8.7	95	0.96	-36	230				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation.
Mobil EAL Arctic 100	100	105	11.6		0.97	-30	>250				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation.
Mobil EAL Arctic 220	220	226	18.5	90	0.96	-21	290				Synthetic, high-performance Environmental Awareness Lubricant (EAL) based on synthesised polyol esters (POEs). Outstanding lubricity, wear protection, chemical and thermal stability. For refrigeration compressors using ozone-friendly HFC refrigerants. Suitable for commercial refrigeration such as business, shopping mall and hotel air conditioning, and low temperature transportation.
Mobil Zeric S 32	32	32	4.2		0.86	-33	154				Synthetic, premium-quality refrigeration compressor oil based on alkyl benzenes. For a wide range of industrial reciprocating and rotary compressors. Due to its chemical nature excellent miscibility with fluorocarbon refrigerants such as R22. This allows very low temperature applications, down to -60 °C.
Mobil Zeric S 46	46	46	5.4		0.87	-30	154				Synthetic, premium-quality refrigeration compressor oil based on alkyl benzenes. For a wide range of industrial reciprocating and rotary compressors. Due to its chemical nature excellent miscibility with fluorocarbon refrigerants such as R22. This allows very low temperature applications, down to -60 °C.
Mobil Zeric S 68	68	68	6.5		0.87	-27	174				Synthetic, premium-quality refrigeration compressor oil based on alkyl benzenes. For a wide range of industrial reciprocating and rotary compressors. Due to its chemical nature excellent miscibility with fluorocarbon refrigerants such as R22. This allows very low temperature applications, down to -60 °C.
Mobil Zeric S 100	100	100	8		0.87	-27	186				Synthetic, premium-quality refrigeration compressor oil based on alkyl benzenes. For a wide range of industrial reciprocating and rotary compressors. Due to its chemical nature excellent miscibility with fluorocarbon refrigerants such as R22. This allows very low temperature applications, down to -60 °C.



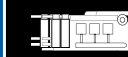
Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Rarus 32	32	30.6	5.6	123	0.88	-42	204			
	<i>Supreme-performance synthetic air compressor lubricant primarily intended for the lubrication of severe duty rotary screw and vane air compressors. Particularly suited for severe service where synthetic oil-based products are not meeting expectations such as in severe applications subjected to high final compression temperatures or where extended oil drain intervals are desired. Provides the potential to deliver up to 3 times oil drain interval versus a leading synthetic compressor lubricants. Not for air compressors used in breathing air applications.</i>									
Mobil SHC Rarus 46	46	44.1	7.1	122	0.87	-42	197			
	<i>Supreme-performance synthetic air compressor lubricant primarily intended for the lubrication of severe duty rotary screw and vane air compressors. Particularly suited for severe service where synthetic oil-based products are not meeting expectations such as in severe applications subjected to high final compression temperatures or where extended oil drain intervals are desired. Provides the potential to deliver up to 3 times oil drain interval versus a leading synthetic compressor lubricants. Not for air compressors used in breathing air applications.</i>									
Mobil SHC Rarus 68	68	65.3	9.7	129	0.87	-39	192			
	<i>Supreme-performance synthetic air compressor lubricant primarily intended for the lubrication of severe duty rotary screw and vane air compressors. Particularly suited for severe service where synthetic oil-based products are not meeting expectations such as in severe applications subjected to high final compression temperatures or where extended oil drain intervals are desired. Provides the potential to deliver up to 3 times oil drain interval versus a leading synthetic compressor lubricants. Not for air compressors used in breathing air applications.</i>									
Mobil Rarus SHC 1024	32	31.5	5.7	127	0.85	-48	245			
	<i>Synthetic, PAO based supreme-performance oil for the lubrication of rotary screw and vane air compressors and for exhaust gas turbochargers. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
Mobil Rarus SHC 1025	46	44	7.2	131	0.85	-45	246			
	<i>Synthetic, PAO based supreme-performance oil for the lubrication of rotary screw and vane air compressors and for exhaust gas turbochargers. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
Mobil Rarus SHC 1026	68	66.6	10.1	136	0.86	-45	246			
	<i>Synthetic, PAO based supreme-performance oil for the lubrication of rotary screw and vane air compressors and for exhaust gas turbochargers. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
Mobil Rarus 827	100	107.5	10.1	66		-36	270			
	<i>Synthetic, diester based supreme-performance air compressor oil. For use for severe duty reciprocating air compressors. Stationary and mobile equipment.</i>									
Mobil Rarus 829	150	158	13.2	70		-40	270			
	<i>Synthetic, diester based supreme-performance air compressor oil. For use for severe duty reciprocating air compressors. Stationary and mobile equipment.</i>									




Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Rarus PE KPL 201		117			0.87	-12	230	NSF-H1-Registration Number 146247	FDA 21 CFR 178.3570, European Directive 2002/72/EC, USP-NF<661> (vol.1, 2008), FDA Processing Aid in production of Polymers compliant with 177.1520	
	<i>Specifically designed for the lubrication of very high pressure ethylene and co-monomers compressors up to 3400 bars. High purity components. Do not induce any discoloration or odour in the final polymer.</i>									
Mobil Rarus 424	32	32	5.4	105	0.87		236		DIN 51506 VD-L	
	<i>Premium-performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and preferentially for rotary type compressors. Excellent wear protection. Stationary and mobile applications.</i>									
Mobil Rarus 425	46	46	6.9	105	0.87		238		DIN 51506 VD-L	
	<i>Premium-performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and preferentially for rotary type compressors. Excellent wear protection. Stationary and mobile applications.</i>									
Mobil Rarus 426	68	68	8.9	105	0.88		251		DIN 51506 VD-L	
	<i>Premium-performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and preferentially for rotary type compressors. Excellent wear protection. Stationary and mobile applications.</i>									
Mobil Rarus 427	100	100	11.6	100	0.88		264		DIN 51506 VD-L	
	<i>Premium-performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and preferentially for rotary type compressors. Excellent wear protection. Stationary and mobile applications.</i>									
Mobil Rarus 429	150	150	14.7	100	0.87		269		DIN 51506 VD-L	
	<i>Premium-performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and preferentially for rotary type compressors. Excellent wear protection. Stationary and mobile applications.</i>									
Mobil Gas Compressor Oil		175	32.3	230	1.06	-36	294			
	<i>Synthetic, polyglycol based compressor oil for the compression of hydrocarbons such as Natural Gas, Propane, and Butane.</i>									
Mobil Vacuum Pump Oil 100		100			0.874	-9	270			
	<i>Premium lubricant, blended from specific high-quality white oils with low volatility characteristics, for the lubrication of vacuum pumps.</i>									



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Almo 525	46	46	7.3	105	0.88	-24	188			
<i>Premium-quality, high-performance lubricant, suitable for pneumatically operated rock drills in underground and surface mining</i>										
Mobil Almo 527		112.9	11.4	91	0.9	-30	204			
<i>Premium-quality, high-performance lubricant, suitable for pneumatically operated rock drills in underground and surface mining</i>										



Brand name	SAE Grade	Kinematic Viscosity mm ² /s		Viscosity Index	TBN mg KOH/g	Ash wt.-%	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications
		40°C	100°C							Approved
Mobil SHC Pegasus 30 	30	65	10.5	162	5	0.5	0.842	-42	225	**see note
<i>High-performance gas engine oil providing today's high output, low-emission four-cycle gas engines with the highest levels of protection. Detergent-dispersant system controls the formation of carbon and varnish deposits to minimize oil consumption and maintain engine cleanliness even during extended drain intervals. Potential benefit of fuel consumption reductions. *see note</i>										
Mobil SHC Pegasus 40	40	82	13	150	5.6	0.56	0.847	-18	210	**see note
<i>High-performance gas engine oil providing today's high output, low-emission four-cycle gas engines with the highest levels of protection. Detergent-dispersant system controls the formation of carbon and varnish deposits to minimize oil consumption and maintain engine cleanliness even during extended drain intervals.</i>										
Mobil Pegasus 1	15W-40	93.8	13.0	137	6.5	0.5	0.854	-48	238	**see note
<i>Synthetic, high-performance gas engine oil. For most demanding naturally aspirated and turbocharged stoichiometric and lean-burn gas engines.</i>										
Mobil Pegasus 1005	40	125	13.0	100	5	0.5	0.85	-15	247	**see note
<i>High-performance gas engine oil providing today's high output, low-emission four-cycle gas engines with the highest levels of protection. Detergent-dispersant system controls the formation of carbon and varnish deposits to minimize oil consumption and maintain engine cleanliness even during extended drain intervals.</i>										
Mobil Pegasus 805	40	125	13	100	5	0.5	0.85	-15	247	**see note
<i>Premium-performance gas engine oil. For high output 4-stroke engines.</i>										
Mobil Pegasus 705	40	126.2	13.2	98	5.6	0.5	0.887	-18	252	**see note
<i>High-quality gas engine oil for medium and high speed gas engines under heavy-duty operation, with high neutralisation capacity.</i>										
Mobil Pegasus 710	40	121	13.2	98	6.5	1.0	0.896	-15	249	**see note
<i>High-performance gas engine oil for mildly aggressive biogases.</i>										
Mobil Pegasus 605	40	126	13.3	96	7.1	0.5	0.887	-15	255	**see note
<i>High-performance gas engine oil for medium and high speed 4-stroke engines operating on corrosive fuel such as hydrogen sulphide and halogens.</i>										
Mobil Pegasus 610	40	131	13.3	98	10.8	0.98	0.889	-18	257	**see note
<i>High-performance gas engine oil for medium and high speed 4-stroke engines operating on corrosive fuel such as hydrogen sulphide and halogens.</i>										
Mobil Pegasus 605 Ultra 40	40	137.5	15.0	110	5.3	0.6	0.850	-21	268	**see note
<i>Latest generation of gas engine oil primarily intended for the lubrication of modern medium and high-speed four-cycle engines operating on landfill gas that contains contaminants such as hydrogen sulphide, halides or siloxane. Very good anti-wear and anti-scurf performance.</i>										
Mobil Pegasus SR	40	130	14.0	104	6	0.5	0.88	-15	246	**see note
<i>High-performance, anti-scurf performance, natural gas engine oil specifically formulated for the lubrication of modern medium and high-speed four-cycle engines operating on landfill gas containing corrosive materials such as, hydrogen sulphide or halogens (compounds containing chlorine, fluorine, etc.) and abrasive materials such as siloxanes.</i>										

* The fuel efficiency of Mobil SHC Pegasus 30 relates solely to the fluid performance when compared with ExxonMobil standard SAE 40 natural gas engine oils. The technology used allows up to a 1.5 % increase in fuel efficiency compared with Mobil Pegasus 1005 and 805 Series when tested in standard natural gas engine applications under controlled conditions. Efficiency improvements will vary based on operating conditions. The energy efficiency claim for this product is based on test results from the use of the fluid conducted in accordance with all applicable industry standards and protocols.

** Mobil Pegasus products contain a wide range of approvals so for up-to-date information on approvals can be obtained through the respective Equipment Builder manuals or contact your ExxonMobil Sector specialist or visit mobilindustrial.com.



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobiltherm 594		4.8	1.5		0.85	-42	135				
<i>Naphthenic, chlorine-free mineral heat transfer oil for use in indirect heat transfer systems. It is characterized by its exceptionally low pour point, high level of thermal stability, a low viscosity in the entire range of operating temperature and good heat transfer performance.</i>											
Mobiltherm 603		20.2	4.2		0.9	-15	194				
<i>High-performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>											
Mobiltherm 605		30.4	5.4		0.86	-12	230				
<i>High-performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>											
Mobiltherm 610		113	11.5		0.88	-6	250				
<i>High-performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>											
Mobiltherm 611		490	31.7		0.9	-6	300				
<i>High-performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems. Proven performance for heating and lubrication of calendars.</i>											










Brand name	Refractometer Correction Factor	Appearance of Emulsion	pH at 5 %	Mineral Oil Content %	Specifications		
					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilcut 100	0.95	Milky	8.9	80			
<i>Macroemulsion, conventional metalworking fluid that readily mixes with different waters to form stable emulsions. Suitable for a wide range of both, ferrous and non ferrous materials in light to moderate duty machining operations, such as milling, turning, sawing, boring, drilling and reaming. Long-term corrosion protection for components and machine tools.</i>							
Mobilcut 140	1.0	Milky	9.1	48			
<i>Macroemulsion, conventional, long life metalworking fluid with enhanced lubricity. Suitable for a wide variety of materials such as aluminum and high machinability steels in moderate to heavy-duty operations such as milling, turning, sawing, boring, drilling and reaming where the lubricity of a soluble oil is desired. Increased tool life and surface finish, even in difficult machining operations.</i>							
Mobilcut 210	1.85	Translucent	9.1	20			
<i>Semi-synthetic microemulsion, metalworking fluid for a wide water hardness range. Having a relatively low oil content, the product has good detergent, coolant and cutting properties, making it suitable for light to moderate duty cutting and grinding operations on ferrous/non ferrous materials and on cast iron. Not recommended for aluminum.</i>							
Mobilcut 230	1.1	Translucent	9.3	47			
<i>Semi-synthetic mikroemulsion, metalworking fluid that readily emulsifies over a wide water hardness range. Resistant to foaming, even in high pressure systems. Primarily recommended for machining steels, easier to machine stainless steels, and cast iron in milling, turning, sawing, boring, drilling and reaming. Extended coolant life, easy to maintain.</i>							
Mobilcut 240	1.7	Translucent	9.1	20			
<i>Semi-synthetic microemulsion, metalworking fluid based on innovative technology that offers some outstanding advantages including hard water compatibility, machine tool cleanliness and long term stability. For cast iron and moderate to operate steels. Free from added boron and boric acid, hence meeting the latest Health and Safety related trends. Not for aluminum and aluminum alloys.</i>							
Mobilcut 250	0.9	Translucent	9.4	43			
<i>Semi-synthetic microemulsion, metalworking fluid formulated to enhance performance when machining aluminum and aluminum alloys and where low staining potential is important on sensitive components. Containing high levels of lubricity agents, it provides high machining performance of carbon and alloy steels and of yellow metals.</i>							
Mobilcut 260	1.02	Translucent	9.8	40			
<i>Semi-synthetic microemulsion, metalworking fluid for a wide variety of metals and all kind of operations. Especially for aluminum and aluminum alloys, but also suitable for copper alloys.</i>							
Mobilcut 320	1.45	Clear	8.9	0			
<i>Inherently stable, synthetic (mineral oil-free) metalworking fluid. Designed for grinding operations, primarily of steels and cast iron, where a high-quality surface finish, outstanding cooling and low foaming potential are the primary requirements. Helps maintain free and open grinding wheels for maximum performance and shows a marked stability for long service life.</i>							


Brand name	Kinematic Viscosity mm ² /s		Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
	40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilmet 423	15	3.5	0.86	-15	182				<i>Multi-purpose cutting oils, designed for light to moderate duty cutting and grinding operations of aluminum, magnesium, copper, brasses, bronzes and for steels and cast irons. For severe cutting operations of difficult-to-machine non-ferrous alloys such as silicon-copper, silicon-bronze and copper-nickel. Also suitable as machine tool lubricant and for use in light duty hydraulic systems. Non copper-corrosive.</i>
Mobilmet 424	23	4.9	0.86	-15	200				<i>Multi-purpose cutting oils, designed for light to moderate duty cutting and grinding operations of aluminum, magnesium, copper, brasses, bronzes and for steels and cast irons. For severe cutting operations of difficult-to-machine non-ferrous alloys such as silicon-copper, silicon-bronze and copper-nickel. Also suitable as machine tool lubricant and for use in light duty hydraulic systems. Non copper-corrosive.</i>
Mobilmet 426	32	5.7	0.87	-15	210				<i>Multi-purpose cutting oils for critical cutting operations of non ferrous metals and for automatic operations on materials having a Brinell hardness up to 300. Also suitable as machine tool lubricant. Non copper-corrosive.</i>
Mobilmet 427	46	6.9	0.88	-12	212				<i>Multi-purpose cutting oils for critical cutting operations of non-ferrous metals and for automatic operations on materials having a Brinell hardness up to 300. Also suitable as machine tool lubricant. Non copper-corrosive.</i>
Mobilmet 443	15.3	3.8	0.86	-33	170				<i>Multi-purpose, straight cutting fluid, for moderate to severe duty operations such as gear hobbing, gear cutting and shaving, gear and thread grinding, milling, broaching and for automatic operations of steels and non-ferrous metals. Also suitable for machine tool lubrication. Non copper-corrosive.</i>
Mobilmet 446	32.6	6.0	0.88	-24	190				<i>Multi-purpose, straight cutting fluid, for moderate to severe duty operations such as gear hobbing, gear cutting and shaving, gear and thread grinding, milling, broaching and for automatic operations of steels and non-ferrous metals. Also suitable for machine tool lubrication. Non copper-corrosive.</i>
Mobilmet 447	45.9	7.4	0.89	-33	220				<i>Multi-purpose, straight cutting fluid, for moderate to severe duty operations such as gear hobbing, gear cutting and shaving, gear and thread grinding, milling, broaching and for automatic operations of steels and non-ferrous metals. Also suitable for machine tool lubrication. Non copper-corrosive.</i>
Mobilmet 762	10	3.0	0.87		160				<i>Extra high-performance neat cutting oil, intended for severe cutting operations such as deep hole drilling (less than 20 mm diameter), threading, tapping, parting-off and automatic lathe operations on small work pieces especially on difficult to machine steels. Not recommended for use with copper and it's alloys.</i>
Mobilmet 763	18	4.0	0.87		180				<i>Extra high-performance neat cutting oil, intended for severe cutting operations such as deep hole drilling (greater than 20 mm diameter), drilling, tapping, threading, milling, gear shaping, broaching, parting-off and automatic lathe operations, especially on difficult to machine steels. Not recommended for use with copper and it's alloys.</i>
Mobilmet 766	36	6.0	0.88		205				<i>Extra high-performance neat cutting oil, intended for severe cutting operations such as tapping, threading, milling, gear shaving and shaping, broaching, planing, parting-off and automatic lathe operations especially on difficult to machine steels. Not recommended for use with copper and it's alloys.</i>

Brand name	Kinematic Viscosity mm ² /s		Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
	40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilgrind 14	6	2.0	0.78		150				<i>Designed for light duty cylindrical and surface grinding of carbon and alloy steels. Formulated with high-quality additives and base oils to help reduce misting and maintain viscosity at the point of application. Low viscosity helps fines to settle out quickly from the oil and assists filtration of the oil for re-use in circulation systems. Bright, clear, non copper-corrosive.</i>
Mobilgrind 24	7	2.5	0.83		130				<i>Medium duty product for honing and grinding applications on steels of a varying hardness, particularly well suited for rough and finish honing of safety razor blades and for use in large volume circulation systems where continuous filtration is employed, non copper-corrosive.</i>
Mobilgrind 26	12	3.0	0.79		170				<i>Medium duty product for finish grinding of hardened steels and other carbon alloys. May also be used for light duty machining operations where a low viscosity, low misting product is required. Bright and clear, low evaporation, non copper-corrosive, efficient removal of fines from the cutting area.</i>
Mobilgrind 36	15	2.5	0.80		180	Kapp GmbH			<i>Medium/heavy-duty product intended for finish grinding of hardened steels. It has excellent wettability to avoid burning and keep grinding wheels clean. Bright and clear, low evaporation, non copper-corrosive, efficient removal of fines from the cutting area.</i>
Mobilgrind 37	20	4.0	0.82		200				<i>Intended for medium/heavy-duty form grinding applications such as mill and drill flute grinding, helps minimizing staining of the flutes in these high speed operations. May also be used as a hydraulic fluid. Bright and clear, low evaporation, non copper-corrosive, efficient removal of fines from the cutting area.</i>

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilarma 524		88.4	10.5		0.882	-18	218			
	<i>Mineral oil based, solvent-free rust preventive, primarily intended as run-in or lay-up lubricant, for temporary corrosion protection of engines, gear boxes and other industrial equipment. May also be used as short time run-in lubricant for diesel and gasoline engines according to OEMs recommendations.</i>									
Mobilarma 798			23.1				238			
	<i>Mineral oil based, solvent-free rust preventative, forms a self-healing grease-like film. For long term corrosion protection in outdoor applications, especially for wire ropes. Dropping Point 63°C.</i>									
Mobilarma 778		39			0.88	-3	190			
	<i>Mineral oil based, solvent-free corrosion preventive for short and medium term protection of cold-rolled sheet and coiled steel, coating for precision machined parts and instruments during storage, die lubricant in some light duty pressing operation. Lower evaporation tendency for enhanced operator safety.</i>									
Mobilarma LT		4.4			0.845		65			
	<i>Wax-like, solvent containing rust preventive, providing medium to long term protection of ferrous and alloy components during storage, e.g. engine components, automotive parts as well as extruded and machined surfaces. (Film thickness 4,0 µm protection indoor max. 24 month, protection outdoor max. 12 month).</i>									
Mobilarma MT		1.8			0.813		55			
	<i>Grease-like, solvent containing rust preventive, providing medium term protection of ferrous and alloy components during storage and transit. It is particularly suitable for the protection of highly machined precision parts where heavy films are not desirable. (Film thickness 0,8 µm, protection indoor max. 9 month, protection outdoor max. 2 month).</i>									
Mobilarma SF		33			0.88		160			
	<i>Mineral oil based, solvent-free rust preventive, for sheet steel, coil, wire and bar which improves lubricity and adhesion during reeling and straightening. Can be used by dip, flood, spray or electrostatic blade coater.</i>									

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Cibus 32 	32	30	5.8	140	0.829	<-54	253	Kosher, Halal, NSF-H1-Registration Number 141 500	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51524 HLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as hydraulic, circulation, compressor and vacuum equipment. Energy saving potential.</i>									
Mobil SHC Cibus 46 	46	43	7.7	148	0.833	-51	258	Kosher, Halal, NSF-H1-Registration Number 141 498	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51524 HLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as hydraulic, circulation, compressor and vacuum equipment. Energy saving potential.</i>									
Mobil SHC Cibus 68 	68	72	11.4	151	0.838	-48	267	Kosher, Halal, NSF-H1-Registration Number 141 499	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51524 HLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as hydraulic, circulation, compressor and vacuum equipment. Energy saving potential.</i>									
Mobil SHC Cibus 100 	100	100	14.6	143	0.839	-45	270	Kosher, Halal, NSF-H1-Registration Number 145 255	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51517 CL,P, DIN 51524 HLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as gears, bearings and circulation equipment. Energy saving potential.</i>									
Mobil SHC Cibus 150 	150	162	20.7	150	0.843	-21	226	Kosher, Halal, NSF-H1-Registration Number 141 502	FDA 21 CFR 178.3570, DIN 51517 CLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as gears, bearings and circulation equipment. Energy saving potential.</i>									
Mobil SHC Cibus 220 	220	222	24.5	139	0.857	-24	274	Kosher, Halal, NSF-H1-Registration Number 141 503	FDA 21 CFR 178.3570, DIN 51517 CLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as gears, bearings and circulation equipment. Energy saving potential.</i>									
Mobil SHC Cibus 320 	320	311	32.7	147	0.854	-42	284	Kosher, Halal, NSF-H1-Registration Number 141 505	FDA 21 CFR 178.3570, DIN 51517 CLP	
	<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as gears, bearings and circulation equipment. Energy saving potential.</i>									

* The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade. Under controlled conditions the technology used allows efficiency gains up to 3.6% when tested in a worm gearbox and up to 3.5% compared to Mobil DTE™ 25 when tested in an Eaton 25VMQ hydraulic vane pump. Efficiency improvements will vary based on operating conditions and applications.

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil SHC Cibus 460 	460	458	43.6	148	0.856	-42	294	Kosher, Halal, NSF-H1-Registration Number 141 5011	FDA 21 CFR 178.3570, DIN 51517 CLP		<i>Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as gears, bearings and circulation equipment. Energy saving potential.</i>
Mobil SHC Cibus 32 HT	32	30.4	5.91	135	0.829	-54	234	Kosher, Halal, NSF-H1/HT1-Registration Number 141 504	FDA 21 CFR 178.3570, DIN 51522 (1998-11)		<i>Premium-quality synthetic heat transfer oil for use in closed, indirect heating installations. High resistance to thermal cracking and chemical oxidation which results in longer service life.</i>
Mobil Glygoyle 220	220	220	38.1	225	1.08	-33	265	NSF-H1-Registration Number 136642, Fives Cincinnati P-39	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricants are not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and rolling contact bearings in wide variety of applications.</i>
Mobil Glygoyle 320	320	320	55.2	240	1.08	-33	265	NSF-H1-Registration Number 136643	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.</i>
Mobil Glygoyle 460	460	460	77.2	250	1.08	-33	265	NSF-H1-Registration Number 136467, Fives Cincinnati P-39	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.</i>
Mobil Glygoyle 680	680	680	112.4	265	1.08	-33	265	NSF-H1-Registration Number 136 468	FDA 21 CFR 178.3570		<i>Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.</i>
Mobil Gargoyle Arctic SHC 224	32	29	5.6	132	0.82	-54	230	NSF-H1-Registration Number 123 194	FDA 21 CFR 178.3570		<i>Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.</i>
Mobil Gargoyle Arctic SHC 226 E	68	69	10.1	136	0.83	-50	266	NSF-H1-Registration Number 133 449	FDA 21 CFR 178.3570		<i>Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.</i>

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Gargoyle Arctic SHC 228	100	97	13.7	147	0.84	-45	255	NSF-H1-Registration Number 138 669	FDA 21 CFR 178.3570		<i>Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.</i>
Mobil Gargoyle Arctic SHC 230	220	220	25	149	0.85	-39	260	NSF-H1-Registration Number 123 197	FDA 21 CFR 178.3570		<i>Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.</i>

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Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgrease FM 101	1	100			Aluminium-complex	260	NSF-H1-Registration Number 141881, Kosher, Parve, Halal,	FDA 21 CFR 178.3570, DIN 51825 (2006:06) KPF 1 K -20	
Mobilgrease FM 222	2	220			Aluminium-complex	260	NSF-H1-Registration Number 136449, Kosher, Parve, Halal, Fives Cincinati P-72	FDA 21 CFR 178.3570, DIN 51825 (2006:06) KPF 2 K -20	
Mobil SHC Polyrex 005	00	220	30		Polyurea	260	NSF-H1-Registration Number 141947, Kosher/Parve	FDA 21 CFR 178.3570, DIN 51826 (2005:01) GPFHC 00 K-30	
Mobil SHC Polyrex 222	2	220	30		Polyurea	260	NSF-H1-Registration Number 141946, Kosher/Parve	DIN 51825 (2004:06) KPFHC 2 P-30, FDA 21 CFR 178.3570	
Mobil SHC Polyrex 462	2	460	40		Polyurea	270	NSF-H1-Registration Number 139558, Kosher/Parve	DIN 51825 (2004:06) KPFHC 2 P-20, FDA 21 CFR 178.3570	

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC PM 150	150	158	18.9	124	0.86	-39	220			
Mobil SHC PM 220	220	225	25.6	127	0.86	-36	220			
Mobil SHC PM 320	320	325	34.7	130	0.87	-33	220			
Mobil SHC PM 460	460	465	44.8	137	0.87	-27	220			
Mobil Paper Machine Oil S 220	220	220	27	157	0.86	-39	240			
Mobil DTE PM Excel 150	150	150	14.5	96	0.89	-18	264			DIN 51517-3 2011-08 DIN 51524-2 2006-09 VOITH VN 108 4.3.1 CL 150 VOITH VN 108 4.3.3 HLP 150 VOITH VN 108 4.3.4 CLP 150 METSO PAPER RAUAH02724 METSO PAPER Wet End RAU4L00659 METSO PAPER PBM Dry End RAU4L00659
										<i>Multipurpose lubricant for press-, wet- and dryer-sections as well as for calendars of paper machines. Provides excellent demusibility and air release, maximum protection of gears and bearings and effective filterability. Prevents sludge formation due to high keep-clean performance.</i>
Mobil DTE PM Excel 220	220	220	19	95	0.89	-6	260			DIN 51517-3 CLP DIN 51517-2 CL
										<i>Multipurpose lubricant for press-, wet- and dryer-sections as well as for calendars of paper machines. Provides excellent demusibility and air release, maximum protection of gears and bearings and effective filterability. Prevents sludge formation due to high keep-clean performance.</i>
Mobil DTE PM 150	150	150	14.7	95	0.88	-6	250			
Mobil DTE PM 220	220	220	19	95	0.89	-6	260			
Mobil DTE PM 320	320	320	25.4	95	0.89	-6	250			



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilith SHC PM 220	1.5	220			Lithium Complex	275		DIN 51825: (2004-06) KPHC 1-2 N-40	
			<i>Designed for use in the most critical antifriction bearing applications in paper machines. Provides outstanding protection against rust and typical acid and alkali water corrosion, making it ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the synthetic base stock ensures excellent service at high temperatures typical of dry end conditions.</i>						
Mobilith SHC PM 460	1.5	460			Lithium Complex	275		DIN 51825: (2004-06) KPHC 1-2 N-40	
			<i>Designed for use in the most critical antifriction bearing applications in paper machines. Provides outstanding protection against rust and typical acid and alkali water corrosion, making it ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the synthetic base stock ensures excellent service at high temperatures typical of dry end conditions.</i>						
Mobil Centaur XHP 221	1.5	220			Calcium-Sulphonate Complex	318		DIN 51825: (2004-06) KP 1-2 G-20	
			<i>Premium multipurpose grease has been formulated to lubricate antifriction bearings in industrial machinery operating at high temperatures under wet, heavily loaded conditions.</i>						
Mobil Centaur XHP 461	1	460			Calcium-Sulphonate Complex	275		DIN 51825: (2004-06) KPF 1 K-20	
			<i>Multipurpose Calcium Sulphonate Complex Grease, formulated with advanced calcium sulfonate thickener technology. The calcium sulfonate thickener carries both inherent rust protection and extreme pressure (EP) properties. The inherent EP properties exhibit great stability in the presence of water, allowing a balance between wear protection and resistance to corrosion.</i>						



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		ISO VG	Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgear OGL 007	00-0	460				Lithium	200			
			<i>High-performance semi-fluid lubricant that contain EP additives and finely dispersed graphite. Designed for fast, medium and slow open gears in mining, agriculture and cement. Suitable for bath or spray application.</i>							
Mobilgear OGL 009	00-0	1500				Lithium	200			
			<i>High-performance semi-fluid lubricant that contain EP additives and finely dispersed graphite. Designed for fast, medium and slow open gears in mining, agriculture and cement. Suitable for bath or spray application.</i>							
Mobilgear OGL 461	1.5	460				Lithium	200			
			<i>High-performance grease that contains EP additives and finely dispersed graphite. Designed for fast, medium and slow open gears in mining, agriculture and cement. Suitable for bath or spray application.</i>							
Mobiltac 375 NC		5000 (diluted)	1260 (undiluted)							
		<i>High-performance, solvent containing, bitumen based product, intended for the lubrication of open gears over a wide range of environmental conditions and machine requirements.</i>								



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Polyrex 005	00	220	30		Polyurea	260	NSF-H1-Registration Number 141947, Kosher/Parve	FDA 21 CFR 178.3570, DIN 51826 (2005:01) GPFHC 00 K-30	
Mobil SHC Polyrex 222	2	220	30		Polyurea	260	NSF-H1-Registration Number 136449, Kosher, Parve, Halal, MAG IAS, LLC P-64	DIN 51825 (2004:06) KPFHC 2 P-30, FDA 21 CFR 178.3570	
Mobil SHC Polyrex 462	2	460	40		Polyurea	270	NSF-H1-Registration Number 139558, Kosher/Parve	DIN 51825 (2004:06) KPFHC 2 P-20, FDA 21 CFR 178.3570	Recommended by ExxonMobil for use in applications requiring
Mobilith SHC 007	00	460			Lithium-Complex		Fives Cincinnati P-81	DIN 51826: (2005-01) GPHC 00 K-30	
Mobilith SHC 100	2	100			Lithium-Complex	265	AAR-942, Fives Cincinnati P-73	DIN 51825: (2004-06) KPHC 2 N-40	
Mobilith SHC 220	2	220			Lithium-Complex	265		DIN 51825: (2004-06) KPHC 2 N-30	
Mobilith SHC 460	1.5	460			Lithium-Complex	265	Fives Cincinnati P-64	DIN 51825: (2004-06) KPHC 1-2 N-40	
Mobilith SHC 1000 Special	2	1000			Lithium-Complex	265		DIN 51825: (2004-06) KPFHC 2 N-30	
Mobilith SHC 1500	1.5	1500			Lithium-Complex	265		DIN 51825: (2004-06) KPHC 1-2 N-30	



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobiltemp SHC 32	1.5	32			Clay	260+		DIN 51825: (2004-06) KPHC 1-2 K-50L	
Mobiltemp SHC 100	2	100			Clay	260+			
Mobiltemp SHC 460 Special	1	460			Clay	260+			
Mobil Polyrex EM	2	115	12.2		Polyurea	260		DIN 51825: (2004-06) K 2 P-20	
Mobil Polyrex EM 103	3	115	12.2		Polyurea	270			
Mobilgrease XHP 221	1	220			Lithium-Complex	280	Fives Cincinnati P-72	DIN 51825: (2004-06) KP 1 N-20	
Mobilgrease XHP 222	2	220			Lithium-Complex	280	Fives Cincinnati P-64	DIN 51825: (2004-06) KP 2 N-20	
Mobilgrease XHP 322 Mine	2	320			Lithium-Complex	270			
Mobilgrease XHP 461	1	460			Lithium-Complex	280		DIN 51825: (2004-06) KP 1 N-20L	
Unirex N 2	2	115			Lithium-Complex	230		DIN 51825: (2004-06) K 2 N-20L	
Unirex N 3	3	115			Lithium-Complex	230		DIN 51825: (2004-06) K 3 N-20L	



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Unirex EP 2	2	220			Lithium-Complex	260		NLGI GC-LB	
Mobilux EP 004	00	160			Lithium		SEW Eurodrive/ PS C Gears	DIN 51826: (2005-01) GP 00 G-20	
Mobilux EP 0	0	160			Lithium	190		DIN 51826: (2005-01) GP 0 G-20	
Mobilux EP 1	1	160			Lithium	190		DIN 51825: (2004-06) KP 1 K-20	
Mobilux EP 2	2	160			Lithium	190		DIN 51825: (2004-06) KP 1 K-20	
Mobilux EP 3	3	160			Lithium	190		DIN 51825: (2004-06) KP 1 K-20	
Mobil SHC Grease 102 EAL	2	100			Lithium	180		DIN 51825: (2004-06) KPE 1 K-40	
Mobil Centaur XHP 221	1.5	220			Calcium Sulfonate Complex	318		DIN 51825: (2004-06) KP 1-2 G-20	
Mobil Centaur XHP 461	1.5	460			Calcium Sulfonate Complex	275		DIN 51825: (2004-06) KPF 1 K-20	



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgrease Special	2	150			Lithium	190			DIN 51825: (2004-06) KPF2K-20



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilsol PM		383	21	56	0.885		208			
	<i>Highly detergent and dispersant synthetic fluid which, when added to the oil in hydraulic, paper machine or general circulation systems, will help to release and hold in suspension gummy oil oxidation products and insoluble materials.</i>									
Mobil Pyrolube 830		180	20,4	132	0.93	-46	270			
	<i>Synthetic fluid for lubrication of heavily loaded chains. Especially suitable for hot applications in ovens and kilns up to chain temperatures of 230°C. Excellent oxidation stability and low tendency of deposit formation.</i>									
Mobil SHC Chain 240		245	19	86	0.968	-24	290			
	<i>Chain lubricant with exceptional performance designed for lubrication of high temperature conveyor chains at temperatures up to 290°C. Provides excellent wear protection and resistance to evaporation, thermo-oxidation and coking.</i>									
Mobil Clean Industrial					0.762		>56			
	<i>Solvent based cleaning fluid</i>									



Brand name	SAE-Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	TBN mg KOH/g	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgard 312	30	108	12	100	0.896	-9	15			
	<i>High-performance marine diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. Formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. Superior water separating properties and excellent corrosion protection.</i>									
Mobilgard 412	40	142	14.5	100	0.899	-9	15			
	<i>High-performance marine diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. Formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. Superior water separating properties and excellent corrosion protection.</i>									
Mobilgard ADL 30	30	90	11.5	117	0.889	-30	12		Meets the requirements of many major medium-speed marine diesel engine builders	API CF
	<i>High-performance marine engine oil with increased dispersancy for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. Special balance of detergent and dispersant properties provides not only increased resistance to cylinder liner lacquer formation in severe service applications but also minimises piston ring and liner wear and assists in sludge and deposit removal, overall engine cleanliness and can increase time between engine overhauls. Suitable for marine gearing applications.</i>									
Mobilgard ADL 40	40	132	14.7	112	0.892	-21	12		Meets the requirements of many major medium-speed marine diesel engine builders	API CF
	<i>High-performance marine engine oil with increased dispersancy for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. Special balance of detergent and dispersant properties provides not only increased resistance to cylinder liner lacquer formation in severe service applications but also minimises piston ring and liner wear and assists in sludge and deposit removal, overall engine cleanliness and can increase time between engine overhauls. Suitable for marine gearing applications.</i>									
Mobilgard M330	30		12		0.907	-6	30			
	<i>Premium, extra high-performance 30 TBN trunk piston engine oil for use in the most severe residual-fueled, medium-speed diesel engines for marine and stationary power applications. Outstanding residual fuel compatibility to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. Provides excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection.</i>									
Mobilgard M430	40		14		0.907	-6	30			
	<i>Premium, extra high-performance 30 TBN trunk piston engine oil for use in the most severe residual-fueled, medium-speed diesel engines for marine and stationary power applications. Outstanding residual fuel compatibility to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. Provides excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection.</i>									
Mobilgard M440	40		14		0.915	-6	40			
	<i>Premium, extra high-performance 40 TBN marine engine oil designed to meet the needs of engines operating on heavy fuel. Recommended for use in the latest model medium speed diesel engines and especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Relatively high alkalinity reserves provide superior protection in neutralising the strong acids resulting from high sulphur fuels that find access to the crankcase to promote oil degradation and ring, cylinder, and bearing corrosion. Demonstrates excellent high temperature oxidation and thermal stability, low volatility, and high load carrying properties along with engine cleanliness.</i>									



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Jet Oil II		27.6	5.1		1.00355	-59	270	MIL-PRF-23699F-STD		
	<i>High-performance aircraft-type gas turbine lubricant formulated with a combination of a highly stable synthetic base fluid and a unique chemical additive package. The combination provides outstanding thermal and oxidative stability to resist deterioration and deposit formation in both the liquid and vapour phases, as well as excellent resistance to foaming.</i>									
Mobil Jet Oil 254		26.4	5.3		1.0044	-62	254	MIL-PRF-23699F-HTS		
	<i>Third-generation, extra high-performance, synthetic aircraft-type gas turbine lubricant engineered to meet the performance requirements for gas turbine engines used in commercial and military aircraft.</i>									
Mobil Aero HF		14	5.2	370	0.872	-62	107	MIL-PRF-5606, NATO Code H-515		
	<i>Formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. Low viscosity product, high VI fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.</i>									



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		ISO VG	Viscosity Index	Thickener Type	Drop-point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgrease 28	1.5	30				Clay	307	MIL-PRF-81322G, NATO G-395		DOD-G-24508A, Amendment 4
	<i>Supreme-performance, wide-temperature, antiwear grease designed to combine the unique features of a polyalphaolefin (PAO) synthetic base fluid with an organo-clay (non-soap) thickener. Provides excellent low temperature pumpability, very low starting and running torque, and can reduce operating temperatures in the load zone of rolling element bearings.</i>									





Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Airclean Oil		30.8	5.38		0.863	-15	>220			
<i>Oil for removal of SOLVENT-based cold rolling oil from exhaust air of roll stands.</i>										
Mobil Clean Industrial		1,2 (at 25°C)			0.765	<-50	58		FDA	
<i>Low viscosity, easy to evaporate hydrocarbon blend, specially used for the laminate / double process during aluminum rolling. Also suitable as halogen-free degreasing agent.</i>										
Somentor 44		4.2			0.83	-6	120			
<i>Cold rolling oil for stainless steels, copper and other metals. Easy filtration, suitable for Supamic Filtration. Adjustable for use on various mill configurations. Bright surface finish on rolled metal, good oxidation stability.</i>										
Somentor 53		7.2			0.845	-21	160			
<i>Cold rolling oil for stainless steels, copper and other metals. Easy filtration, suitable for Supamic Filtration. Adjustable for use on various mill configurations. Alcohol technology.</i>										
Somentor AL70		7.2			0.85	-6	160			
<i>Premium-quality, fully compounded cold rolling oil for ferrous and non-ferrous metals. Easy filtration, suitable for Supamic Filtration. Bright surface finish on rolled metal, adjustable for use on various mill configurations, including rod mills. Alcohol technology, medium operating efficiency.</i>										
Somentor AH70		7.3			0.852	-6	152			
<i>Premium-quality, fully compounded cold rolling oil for ferrous and non-ferrous metals. Easy filtration, suitable for Supamic Filtration. Bright surface finish on rolled metal, adjustable for use on various mill configurations. Alcohol technology, higher operating efficiency as compared to Somentor AL70.</i>										
Somentor AH45		4.2			0.822	-6	140			
<i>Premium-quality, fully compounded cold rolling oil for ferrous and non-ferrous metals. Easy filtration, suitable for Supamic Filtration. Bright surface finish on rolled metal, adjustable for use on various mill configurations. Alcohol technology, high operating efficiency at low viscosity.</i>										
Somentor EL70		7.3			0.851	-21	158			
<i>Premium-quality fully compounded cold rolling oil for both ferrous and non-ferrous metals. Easy filtration, suitable for Supamic Filtration. Bright surface finish on rolled metal, even at demanding cold rolling operations. Adjustable for use on various mill configurations. Ester technology, high operating efficiency.</i>										
Somentor EL45		4.2			0.823	-12	142			
<i>Premium-quality fully compounded cold rolling oil for both ferrous and non-ferrous metals. Easy filtration, suitable for Supamic Filtration. Bright surface finish on rolled metal, even at demanding cold rolling operations. Adjustable for use on various mill configurations. Ester technology, high operating efficiency at low viscosity.</i>										
Somentor EH70		7.5			0.857	-27	158			
<i>Premium-quality fully compounded cold rolling oil for both ferrous and non-ferrous metals. Easy filtration. Bright surface finish on rolled metal, even at demanding cold rolling operations. Adjustable for use on various mill configurations. Ester technology, very high operating efficiency.</i>										
Somentor EH45		4.2			0.83	-15	136			
<i>Premium-quality fully compounded cold rolling oil for both ferrous and non-ferrous metals. Easy filtration. Bright surface finish on rolled metal, even at demanding cold rolling operations. Adjustable for use on various mill configurations. Ester technology, very high operating efficiency at low viscosity.</i>										
Somentor EH80		8.5	2.4		0.86	-27	150			
<i>Premium-quality fully compounded cold rolling oil for both ferrous and non-ferrous metals. Easy filtration. Bright surface finish on rolled metal, even at demanding cold rolling operations. Adjustable for use on various mill configurations. Ester technology, very high operating efficiency, even for extreme forming operations and for extreme hard metals.</i>										
Walzöl BM 71		7			0.845	-18	155			
<i>Cold rolling oil for stainless steel, copper and other metals. Specially suited for forming of non-ferrous heavy metals, no staining. Easy filtration, adjustable for use on various mill configurations.</i>										
Walzöl W 27		2				-6	92		FDA	
<i>Cold rolling oil for aluminum and soft alloys. Excellent filterability, good evaporation tendency. Adjustable to the rolling mill. Individual usable for a variety of applications, also as evaporation fluid.</i>										
Wyrol 2		2.2			0.83	18	93		FDA 21 CFR 178.3910(a)	
<i>Liquid oxidation inhibitor concentrate, used to extend the life of the rolling oil.</i>										
Wyrol 4		2.5			0.795	24	93		FDA 21 CFR 178.3910(a)	
<i>Rolling oil concentrate used to optimise the properties of aluminium roll oils in terms of their frictional characteristics and achieve the required surface finish.</i>										

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Wyrol 6		2.3			0.858	-3	111		FDA 21 CFR 178.3910(a)	
<i>Rolling oil concentrate used to optimise the properties of aluminium roll oils in terms of their frictional characteristics and achieve the required surface finish. Suitable for special lubrication applications.</i>										
Wyrol 8		8			0.83	18	110		FDA 21 CFR 178.3910(a)	
<i>Rolling oil concentrate used to optimise the properties of aluminium roll oils in terms of their frictional characteristics and achieve the required surface finish. Suitable for special lubrication applications.</i>										
Wyrol 10		2.8			0.84	6	80		FDA 21 CFR 178.3910(a)	
<i>Rolling oil concentrate used to optimise rolling oil life and performance in aluminium cold rolling mill applications. Suitable for special lubrication requirements.</i>										
Wyrol 12		8.2			0.835	18	105		FDA 21 CFR 178.3910(a)	
<i>Rolling oil concentrate used to optimise rolling oil life and performance in aluminium cold rolling mill applications. Suitable for special lubrication requirements.</i>										
Wyrol 15		9.3			0.846	9	154			
<i>Rolling oil concentrate to optimise the rolling process during rolling of stainless steel with Somentor A products.</i>										
Concentrate 3048		11			0.925	<-24	170			
<i>Rolling oil concentrate used to optimise the rolling process during rolling of stainless steel with Somentor A and E products. Individually applied to improve operating efficiency and surface finish.</i>										
Wyrol HS 22		22			0.868	-51	160			
<i>Premium synthetic, low staining, antiwear hydraulic fluid, specifically designed for use in modern aluminium rolling mills, where gums can form challenges in foil rolling and separation.</i>										
Wyrol HS 46		44			0.87	-42	175			
<i>Premium synthetic, low staining, antiwear hydraulic fluid, specifically designed for use in modern aluminium rolling mills, where gums can form challenges in foil rolling and separation.</i>										
Wyrol H 15		15			0.84	-18	130		FDA 21 CFR 178.3910(a)	
<i>Premium synthetic, low staining, antiwear hydraulic fluid, specifically designed for use in modern aluminium rolling mills, where gums can form challenges in foil rolling and separation.</i>										
Wyrol H 32		32			0.85	-18	130		FDA 21 CFR 178.3910(a)	
<i>Semi-synthetic, low staining, antiwear hydraulic fluid, specifically designed for use in modern aluminium or yellow metal rolling mills.</i>										
Wyrol B 460		460		160		-12	130		FDA 21 CFR 178.3910(a)	
<i>Semi-synthetic, low staining bearing-/circulating oil specially designed for aluminium cold rolling mills.</i>										
Wyrol BG 220		235	32		1.01	-30	275			
<i>High-performance, synthetic low staining bearing and gear oil for rolling mills. Specifically designed to overcome the problems generated when conventional bearing lubricating oils contaminate the roll oil.</i>										
Wyrol BG 320		320	45		1.01	-30	275			
<i>High-performance, synthetic low staining bearing and gear oil for rolling mills. Specifically designed to overcome the problems generated when conventional bearing lubricating oils contaminate the roll oil.</i>										
Wyrol BG 460		460	63		1.01	-27	275			
<i>High-performance, synthetic low staining bearing and gear oil for rolling mills. Specifically designed to overcome the problems generated when conventional bearing lubricating oils contaminate the roll oil.</i>										
Wyrol MS 220		220			0.86	-21	140			
<i>Synthetic, low staining bearing oil for oil/air or oil/mist lubrication specially for modern aluminum rolling mills.</i>										
Wyrol MS 460		460			0.87	-21	140			
<i>Synthetic, low staining bearing oil for oil/air or oil/mist lubrication specially for modern aluminum rolling mills.</i>										
Prosol 35		56			0.944		>150			
<i>Concentrate for blending emulsions for hot rolling of aluminum as well as for cold rolling of ferrous alloys. Biocide-free.</i>										
Prosol 44 W		35			0.92		>160			
<i>Concentrate for blending emulsions for hot rolling of aluminum as well as for cold rolling of ferrous alloys. Extreme application range, high lubricity and high stability. Biocide-free.</i>										
Prosol NT70		42			0.9	-9	190			
<i>Concentrate for blending emulsions for hot rolling of aluminum and yellow metals as well as for cold rolling and grinding of ferrous alloys. Containing Biocide.</i>										







Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Velocite Oil No. 3	2	2.1	0.95		0.80	-36	84			
								<i>Premium-performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>		
Mobil Velocite Oil No. 4	5	4.8	1.5		0.82	-15	102			
								<i>Premium-performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>		
Mobil Velocite Oil No. 6	10	10	2.6		0.84	-15	180			
								<i>Premium-performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>		
Mobil Velocite Oil No. 10	22	22	4.0		0.86	-30	212			
								<i>Premium-performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>		



Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Gear 320 WT	320	335	42.1	187	0.854	-45	256		AGMA 9005-E02 DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
								<i>Advanced wind turbine gear lubricant. Synthetic industrial gear lubricant designed to provide optimum equipment protection of wind turbine gearboxes and lubricant life even under extreme conditions. Especially recommended for applications that may be subject to micropitting, heavily loaded gearboxes with surface-hardened tooth metallurgies, which are typically used in wind turbines. For gear applications where extreme low and/or high temperatures are encountered and applications where corrosion may be severe. Non toxic to aquatic life as per IMO 493/02.</i>		
Mobilgear SHC XMP 320	320	335	38.3	164	0.86	-38	242		AGMA 9005-E02 EP, DIN 51517-3, 2009-06	
								<i>Synthetic high-performance gear oil for wind turbine gearboxes. Optimal equipment protection and optimal oil life even under extreme conditions. Extraordinary thermal and oxidation stability, inherent high viscosity index, excellent flowability at low temperatures. Recommended for applications that may be subject to micropitting. For extreme low and/or high temperatures and applications subject to corrosion.</i>		
Mobilgear XMP 320 	320	320	24.1	96	0.9	-18	268	Hansen Jahnel-Kestermann	AGMA 9005-EO2 EP, ISO L-CKC, (ISO 12925-1, 1996)	
								<i>High-performance gear oil for extreme conditions. Recommended for highly loaded wind turbine gearboxes. For applications that may be subject to micropitting.</i>		
Mobil SHC 524	32	32	6.4	144	0.85	-56	234	Denison HF-0, Denison HF-1, Denison HF-2		
								<i>Zinc-containing synthetic high-performance antiwear hydraulic oil for hydraulic pitching of wind turbine rotor blades. Very high VI for excellent low and high temperature performance. Maximum antiwear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>		
Mobil DTE 10 Excel 32 	32	327	6.6	164	0.85	-54	250	Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S) Denison HF-2	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK, Bosch-Rexroth RE 90220-1	
								<i>Zinc- and silikon-free high-performance antiwear hydraulic oil. Meets the requirements of modern high-pressure hydraulic systems in wind turbines such as for hydraulic pitching of wind turbine rotor blades. Potentially reduced energy consumption. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. (FZG fail stage = 12)</i>		
Mobil DTE 10 Excel 46 	46	456	8.5	164	0.85	-45	232	Arburg Hydraulic fluid Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S)	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK VG46W (JCMAS P 041:2004), Bosch- Rexroth RE 90220-1, Krauss-Maffei hydraulic Oil	
								<i>Zinc- and silikon-free high-performance antiwear hydraulic oil specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. Innovative ultra keep clean performance protects critical hydraulic system components from malfunction. Potentially reduced energy consumption.</i>		
Mobil SHC Gear 220 		22000	700	180	0.86	6	240			
								<i>Supreme-performance, synthetic gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. For pitch- and yaw (Azimut)-gearboxes of wind turbines.</i>		

* The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6% efficiency compared with the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

** Energy efficiency relates solely to the fluid performance when compared to ExxonMobil's standard hydraulic fluids. The technology used allows up to 6% increase in hydraulic pump efficiency compared to Mobil DTE 20 series when tested in standard hydraulic applications. The energy efficiency claim for this product is based on test results on the use of the fluid conducted in accordance with all applicable industry standards and protocols. In case of queries, please consult TechDeskEurope@exxonmobil.com

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Gear 460 	460	460	54.1	184	0.86	-48	234	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A33, SEW Eurodrive SEW IG CLP HC 460	AGMA 9005-E02 EP DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
								<i>Supreme-performance, synthetic gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. For pitch- and yaw (Azimut)-gearboxes of wind turbines.</i>		
Mobil SHC 629 	150	150	21.1	166	0.86	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A36. SEW Eurodrive: SEW IG CLP HC 150, SEW SG CLP HC 150. MAG IAS, LLC P-77	AGMA 9005 E02-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
								<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in pitch- and yaw (Azimut)-gearboxes of wind turbines.</i>		
Mobil SHC 630 	220	220	28.5	169	0.87	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A35. DESCH ZG 30 gear unit SEW Eurodrive: SEW IG CLP HC 220 & SEW SG CLP HC 220.	AGMA 9005 E02-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
								<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in pitch- and yaw (Azimut)-gearboxes of wind turbines.</i>		
Mobil SHC 632 	320	320	38.5	172	0.87	-42	225	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A34. SEW Eurodrive: SEW IG CLP HC 320 MAG IAS, LLC P-59	AGMA 9005 E02-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
								<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in pitch- and yaw (Azimut)-gearboxes of wind turbines.</i>		

Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		ISO VG	Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilith SHC 100	2	100				Lithium-Complex	265	AAR-942, Fives Cincinnati P-73	DIN 51825: (2004-06) KPHC 2 N-40	
			<i>Supreme-performance synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Specially formulated to lubricate generator bearings of wind turbines and to provide extended service life.</i>							
Mobil SHC Grease 460 WT	1.5	460				Lithium-Complex	255		DIN 51825: (2004-06) KPHC 2 N-30	
			<i>Supreme-performance grease especially suited to exceed the demanding requirements of wind turbine applications at extremes of temperature. Specially formulated to lubricate yaw, pitch and main bearings of wind turbines and to provide extended service life.</i>							
Mobilith SHC 007	00	460				Lithium-Complex		Fives Cincinnati P-81	DIN 51826: (2005-01) GPHC 00 K-30	
			<i>Supreme-performance synthetic semi-fluid grease designed for a wide variety of wind turbine applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. For industrial, automotive and marine applications.</i>							
Mobilgear OGL 007	00-0	460				Lithium	200			
			<i>High-performance semi-fluid grease that contains EP additives and finely dispersed graphite. Designed for slow moving open gears in wind turbines. Suitable for spray application.</i>							
Mobilgear OGL 461	1.5	460				Lithium	200			
			<i>High-performance grease that contains EP additives and finely dispersed graphite. Designed for slow moving open gears in wind turbines. Suitable for spray application.</i>							

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** Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6% efficiency compared with the reference when tested in circulating and gear applications under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilfluid 125	32	30	5.3	104	0.88	-30	225	Voith Turbo Transmissions 120.00059010			
Mobilfluid 422	SAE 10W-30	85	10.8	110	0.89	-30	226			Ford New Holland ESN-M2C86-B	
Mobilfluid 424		55	9.3	145	0.88	-42	198	Kubota UDT, ASTM D6973 (Eaton 35VQ) high pressure vane pump test	API GL-4, Allison C-4 (Agriculture Applications Only), Caterpillar TO-2, CNH MAT 3505/3525, Ford New Holland ESN-M2C-134-D, Ford New Holland FNHA-2C-201.00, JI Case MS 1204-07/09, Massey Ferguson M-1135, M-1141, AGCO Powerfluid 821 XL, John Deere J20C, Denison UTTO/THF		Caterpillar TO-2, Denison UTTO/THF, Deere J20D, ASTM D6973 (Eaton 35VQ) high pressure vane pump test
Mobilfluid 426		59	9.7	149	0.89	-39	228	ZF TE-ML 03E/05F/06K/17E/21F	Kubota UDT, ASTM D6973 (Eaton 35VQ) high pressure vane pump test	API GL-4, AGCO Powerfluid 821 XL, Allison C-4 (Agriculture Applications Only), Caterpillar TO-2, CNH MAT 3505/3525, Ford New Holland FNHA-2-C-201.00, Ford ESN-M2C134-D, J. I. Case MS 1204-07/09, John Deere J20C, Massey Ferguson MF M-1135/ M-1141/M-1143/ M-1145, Denison UTTO/THF, VOLVO WB-101	

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilfluid 316M		53.1	10.0	179	0.877	-42	218				Mobilfluid 316M is suitable for use in many hydraulic pumps in: Poclairn Hydraulics, Mecalac, Kubota, Sambron, Manitou, Linde Hydraulics
Mobilfluid LT	SAE 75W-80	34	7.2	180	0.875	-45	198				Caterpillar TO-2, Denison UTTO/THF, Deere J20D, ASTM D6973 (Eaton 35VQ) high pressure vane pump test

Brand name	SAE-Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	TBN mg KOH/g	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilube 1 SHC	75W-90	102	15.1	156	0.870	-54	202	MAN 341 Typ E3 / Z2, MAN 342 Typ M3, MB-Approval 235.8, ZF TE-ML 02B/05B/12L/16F/17B/19C/21B, SAE J2360, JSC Avtodisel YaMZ Gearboxes, KOMATSU Part 195-32-61990-04	API GL-5/MT-1, Scania STO 1:0, ZF TE-ML 07A/08	API GL-4	<p>Synthetic, high-performance commercial gear lubricant formulated using synthetic base oils and the latest technology additive system. Engineered for heavy-duty manual transmissions and rear axles where operations require gear lubricants with excellent load-carrying capability over wide operating temperatures and where extreme pressures and shock loading are expected. Excellent thermal and oxidation stability, high inherent Viscosity Index (VI), extremely low pour point, and outstanding low temperature fluidity.</p>
Mobilube S	80W-90	144	15.0	105	0.90	-30	210	MAN 341 Typ E2/Z2, MAN 342 Typ M2, MB-Approval 235.0, ZF TE-ML 02B/05A/12L/12M/16B/17B/19B/21A, MACK GO-J	API GL-5 / MT-1, Scania STO 1:0, ZF TE-ML 07A/08, ISUZU Axle Oil/ Large Manual Transmission Oil	API GL-4, Meritor O-76-D, MIL-PRF-2105E	<p>Extra high-performance drivetrain lubricant engineered to provide excellent lubrication for state-of-the-art, heavy-duty manual transmission components used in on-highway commercial vehicles and cars. Potential benefits include excellent shifting performance, good low temperature fluidity, and high temperature viscosity retention.</p>
Mobil Delvac 1 Gear Oil	75W-90	120	15.9	140	0.860	-48	205	MB-Approval 235.8, MAN 342 Typ M2, SCANIA STO 2:0 A, Voith Turbo 132.00374401/2, ZF TE-ML 05B/12L/12N/16F/17B/19C/21B, Flender Railway Gears T 7302, Volvo 97312, SAE J2360, Dana SHAES 256 Rev C/429, Navistar MPAPS B-6821, Mack GO-J Plus, Hyundai Dymos P1105S AXLE - Low Floor Rear Axle, Detroit Fluids Specification 93K219.01	API GL-5/MT-1, Scania STO 1:0, ZF TE-ML 07A/08, ISUZU Axle Oil/LCV Front Axle Oil/Large Manual Transmission Oil, Meritor O-76-N	Eaton PS 163, MIL-PFR-2105E	<p>Synthetic drivetrain lubricant engineered for use in heavy-duty drivetrains that require gear lubricants with relatively high viscosity and excellent load-carrying capability and where extreme pressures and shock loading are expected. Formulated with synthetic basestocks and advanced additives the product provides significant advantages over mineral gear oils. Excellent performance for wide temperature range application, helps to protect against thermal degradation and oxidation and contributes to reduced wear and corrosion, improved shear stability and fuel economy.</p>
Mobilube HD-A	85W-90	184	17.0	99	0.9	-24	222	MB-Approval 235.0, MAN 342 Typ M1, ZF TE-ML 16C/17B/19B/21A	API GL-5, ZF TE-ML 07A		<p>Heavy-duty gear lubricant formulated from high-performance base oils and an advanced additive system. Engineered for commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected. Recommended for on-highway cars, light trucks and heavy-duty commercial vehicles as well as for off-highway industries including construction, mining, quarrying, and agriculture.</p>

Brand name	ISO VG	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilube LS	85W-90	153	15.3	100	0.9	-36	216	ZF TE-ML 05C/12C/16E/21C	API GL-5		<p>Extra high-performance, automotive gear lubricant formulated specifically for limited-slip differentials. Recommended for use in applications requiring API GL-5 performance such as heavy-duty differentials, axles, and final drives where extreme pressures and shock loading are expected. Applications include passenger cars, on-highway light and heavy-duty trucks, busses and vans as well as off-highway industries including construction, quarrying, and agriculture.</p>
Mobilube GX-A	80W	76	10.0	104	0.89	-30	216	MB-Approval 235.1, MAN 341 Typ E1/Z2, ZF TE-ML 17A	ZF TE-ML 08	API GL-4, MAN 341 Typ Z1	<p>Automotive gear lubricant engineered for commercial transmissions, axles, and final drives where protection against wear and scoring is required. Recommended for manual transmissions and drive axles requiring API GL-4 level, passenger cars, on-highway light- and heavy-duty trucks and commercial vehicles as well as for off-highway industries including construction, quarrying, and agriculture.</p>
Mobilube HD	80W-90	136	14.5	105	0.9	-30	202		API GL-5, ISUZU Axle Oil		<p>Heavy-duty gear lubricant engineered for automotive applications including heavy-duty axles and final drives where extreme pressures and shock loading are expected. Recommended for passenger cars, on-highway light and heavy-duty trucks and commercial vehicles, off-highway industries including construction, mining, quarrying, and agriculture.</p>
Mobilube HD	85W-140	328	25.3	97	0.91	-18	224		API GL-5		<p>Heavy-duty gear lubricant engineered for automotive applications including heavy-duty axles and final drives where extreme pressures and shock loading are expected. Recommended for passenger cars, on-highway light and heavy-duty trucks and commercial vehicles, off-highway industries including construction, mining, quarrying, and agriculture.</p>



Brand name	NLGI Grade	Kinematic Viscosity mm ² /s		ISO VG	Viscosity Index	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Chassis Grease LBZ	00	40			Lithium	>160	MB-Approval 264.0, MAN 283 Li-P 00/000			
			<i>Semi-fluid grease, designed for the central lubrication systems of commercial vehicles. Excellent flow properties at low temperatures in long pipelines.</i>							
Mobilgrease MB 2	2	180			Lithium	>190	MB-Approval 267.0, MAN 283 Li-P 2	DIN 51825: (2004-06) KP 2 K-30		
			<i>Lithium thickened grease for multi purpose applications in commercial and passenger vehicle cars. Excellent oxidation stability, very good water resistance, excellent corrosion protection and good flow properties even at low temperatures. Single multi purpose grease in fleets, agricultural and construction equipment where Mercedes Benz, page 267 specification has been recommended.</i>							



Brand name	SAE-Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	TBN mg KOH/g	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac 1 LE	5W-30	69	11.8	168	0.855	-45	10	MB-Approval 228.51/228.31/235.28, MAN M 3677/M 3477/ M 3271-1, Volvo VDS-4/VDS-3, MTU Category 3.1, DEUTZ DQC IV-10 LA, Detroit Fluid Specification 93K218, Mack EO-O Premium Plus, Renault Truck RLD-3/RLD-2, Voith Retarder Oil Class B, Scania Low Ash, Avtodisel YaMZ-6-12	ACEA E9/E7/E6, API CJ-4/CI-4 Plus/CI-4/SN, JASO DH-2, DAF Extended Drain, Cat ECF-3, Cummins CES 20081, Ford WSS-M2C171-E	Renault Truck RXD/RGD
Mobil Delvac 1	5W-40	102	14.8	151	0.854	-45	12	MB-Approval 228.5/235.28, Volvo VDS-3/VDS-2, Scania LDF, Detroit Fluid Specification 93K214, Mack EO-N Premium Plus 03/EO-M Plus, Voith Retarder Oil Class B	ACEA E7/E4, API CI-4 Plus/CI-4/CH-4/SL/SJ, Cummins CES 20078/77/76/75, Ford WSS-M2C171-D, Renault Truck RXD, JASO DH-1, Global DHD-1	API CG-4/CF-4/CF, Cat ECF-1-a, Cummins 20072/71
Mobil Delvac 1 SHC	5W-40	84	14.2	176	0.86	-45	16	MB-Approval 228.5, MAN M 3277, MTU Category 3.1	ACEA E4	API CF/CE, Volvo VDS-2
Mobil Delvac XHP Ultra	5W-30	69.7	11.8	166	0.856	-45	15.9	MB-Approval 228.5, MAN M 3277, MTU Category 3.1	ACEA E4	
										<i>Extra high-performance diesel engine oil engineered to provide outstanding protection and fuel economy for modern heavy-duty diesel engines used in severe on highway applications.</i>
Mobil Delvac XHP Ultra LE	5W-30	69.4	11.9	169	0.85		10.9	MB-Approval 228.5/235.28, MAN M 3477, Voith Retarder Oil Class B		
						<i>Extra high-performance diesel engine oil engineered to provide outstanding protection and fuel economy potential in modern, high-performance, low emissions engines used in severe on-highway applications, specifically designed to meet the latest MB-Approval 228.51 & MAN M 3477 requirements for modern diesel engines.</i>				
Mobil Delvac XHP Extra	10W-40	89.0	13.0	151	0.87	-42	15.9	MB-Approval 228.5/235.27, MAN M 3277, Volvo VDS-3/VDS-2, MTU Category 3, Scania LDF-3, ZF TE-ML 04C, Voith Retarder Oil Class A	ACEA E7/E4, Renault Truck RXD	API CF, Cummins CES 20072, Scania LDF-2

Brand name	SAE-Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	TBN mg KOH/g	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Delvac MX Extra	10W-40	102	14.7	150	0.868	-39	10.6	MB-Approval 228.5/235.28, MAN M 3275-1, Volvo VDS-3, MTU Category 2, Mack EO-N/EO-M Plus, Renault Trucks RDL-2, Voith Retarder Oil Class B, Avtodisel YaMZ-6-12, KAMAZ Euro-3,-4,-5	ACEA E7, API CI-4/CH-4/SL/SJ, Cat ECF-2, Cummins 20076/77	ACEA A2/B2, API CG-4/CF-4/CF, Cummins 20071/72, Detroit 7SE270, Renault Trucks RDL, Volvo VDS-2	<p>Extra high-performance diesel engine oil that helps extend engine life in the most severe on- and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible in older engine models.</p>
Mobil Delvac MX ESP	10W-30	79	11.9	145	0.87	-30	10.4	MB-Approval 228.31, MAN M 3575, Volvo VDS-4/VDS-3, Deutz DQC II-10 LA, Renault Truck RLD-3, Mack EO-O Premium Plus	ACEA E9/E7; API CJ-4/CI-4 Plus/CI-4/CH-4/SM, JASO DH-2, CAT ECF-3, Cummins 20081	API CF/CG-4	<p>Extra high-performance diesel engine oil that helps extend engine life in the most severe on- and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible in older engine models.</p>
Mobil Delvac MX ESP	15W-40	114	15	137	0.876	-30	10.4	MB-Approval 228.31, MAN M 3575, Volvo VDS-4/VDS-3/VDS-2, Deutz DQC II-10LA, Detroit Fluid Specification 93K214/93K218; Mack EO-N Premium Plus 03/EO-O Premium Plus, Allison TES-439, Renault Truck RLD-3, FAWDE Q/XC3135-2007 China V DE w/ SCR & China IV DE	ACEA E9/E7; API CJ-4/CI-4 Plus/CI-4/CH-4/SM/SL, JASO DH-2, CAT ECF-3, Cummins 20081, Isuzu DEO (w/DPD Equipped Vehicles)	API CG-4/CF-4/CF-2/CF, MAN M 3275-1, Allison C-4	<p>Extra high-performance diesel engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible in older engine models. Suitable for heavy-duty applications and operating environments found in the trucking, mining, construction, quarrying, and agricultural industries.</p>
Mobil Delvac MX	15W-40	106	14.5	140	0.88	-30	10	MB-Approval 228.3, MAN M 3275-1, Volvo VDS-3, Mack EO-N/EO-M Plus, Renault Truck RLD-2, MTU Category 2, Avtodisel YaMZ-6-12, KAMAZ Euro-3,-4,-5	ACEA E7, API CI-4/CH-4/SL/SJ, Cat ECF-2, Cummins CES 20077/76, Isuzu DEO (w/DPD Equipped Vehicles)/ Small Manual Transmission Oil	ACEA A2/B2, API CG-4/CF-4/CF, Renault Truck RLD, Volvo VDS-2, Cummins 20071/72, Detroit 7SE 270, Mack EO-M	<p>Multipurpose high-performance diesel engine oil that provides excellent lubrication of today's diesel engines promoting long engine life. Recommended for mixed fleets and construction equipment.</p>
Mobil Delvac Super 1400 E	15W-40	106	14	135	0.887	-27	9.8	MB-Approval 228.3, MAN M 3275-1, MTU Category 1, KAMAZ Euro-3,-4,-5	API SJ	ACEA E3/A2/B2, API CG-4/CF-4/CF, Renault Truck RD/RD-2, Volvo VDS-2	<p>High-performance diesel engine oil that provides protection for diesel engines operating under severe service conditions for both on- and off-highway applications. Recommended by ExxonMobil for use in a wide range of heavy-duty applications and operating environments found in the trucking, mining, construction, quarrying, and agricultural industries.</p>

Brand name	SAE-Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	TBN mg KOH/g	Specifications			
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Delvac 1640	40	132	14.7	112	0.89	-21	12	MAN 270, MTU Category 2, ZF TE-ML 04B	JASO DH-1	API CF/SF, ACEA E2,	<p>Monograde diesel engine oil formulated to meet or exceed the demanding specifications of the world's leading builders of modern diesel engines.</p>
Mobil Delvac 1630	30	90	11.5	117	0.89	-30	12	MAN 270, MTU Category 2, ZF TE-ML 04B	JASO DH-1	API CF/SF, ACEA E2, Allison C-4	<p>Monograde diesel engine oil formulated to meet or exceed the demanding specifications of the world's leading builders of modern diesel engines.</p>
Mobilgard 1 SHC	40	109	14.5	136	0.872	-54	15		API CF-2/CF, MTU Typ 2		<p>Synthetic, supreme-performance marine diesel engine oil, zinc-free. Specifically formulated to address the needs of high power, distillate fueled diesel engines. Provides unsurpassed lubrication including long drain capability and extended engine life for today's marine diesel engines operating in severe applications. Marine gearing applications where FZG Level 12 is required.</p>

Brand name	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	Flash Point °C	Specifications		
	40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac 1 ATF	39	7,3	168	0,85	-54	236	Allison TES-468/TES-295, MB-Approval 236.91, ZF TE-ML 04D/14C/16M/20C, Voith Turbo H55.6336xx, Voith DIWA Service Bulletin 013 & 118-Extended Drain		
	<i>Synthetic fluid for automatic transmissions, recommended by Allison Transmission, Inc. and approved against the Allison TES-295 and TES-468 Specifications.</i>								
Mobil ATF 220	37	7.0	153	0.87	-44	200	MB-Approval 236.7, MAN 339 Typ L1/V1/Z1, VOITH TURBO H55.6335xx, ZF TE-ML-04D/11A/14A		GM Dexron II/Type A Suffix A, Allison C-4, Renk Doromat, Caterpillar TO-2, Ford ESR-M2C163-A, GM Type A Suffix A, Volvo 97340
	<i>High-performance fluid for automatic transmissions in older vehicles specifying Dexron IID. It is also used as a hydraulic fluid in unique applications.</i>								
Mobil ATF 320	8.2			0.86		197	ZF TE-ML 03D/04D/14A/17C, MAN 339 Typ L2/V1/Z1, VOITH TURBO H55.6335xx		GM Dexron III G, Ford Mercon, Allison C-4, Volvo 97341
	<i>Extra high-performance automatic transmission fluid. Also suitable for power steering systems, hydraulic applications and some manual transmissions where an automatic transmission fluid is specified.</i>								
Mobil ATF SHC	33	7.4	200	0.839	-51	210	MB-Approval 236.8, MAN 339 Typ L2/V2/Z2, VOITH TURBO H55.6335xx, ZF TE-ML 09X/14B/16L 14B		GM Dexron IIE, Allison C-4, Caterpillar TO-2, Renk Doromat
	<i>Superior-performance synthetic automatic transmission fluid designed to meet the demanding requirements of automatic transmissions. For use in modern high-performance transmissions operating in the severe, high-temperature, heavy load or cold climate applications.</i>								

Brand name	SAE-Grade	Kinematic Viscosity mm ² /s		Viscosity Index	Density at 15°C g/cm ³	Pour-point °C	TBN mg KOH/g	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac 1 Transmission Fluid	75W-80	55.7	9.5	155	0.858	-42	234	ZF TE-ML 01L/02L/16K, MAN 341 Typ E3/Z4		API GL-4, ZF TE-ML 08
								<i>Extra high-performance manual transmission lubricant. Excellent shifting performance, low temperature fluidity and high temperature viscosity retention. For manual transmissions of on-highway light and heavy-duty trucks, busses, and vans.</i>		
Mobiltrans HD 10W	10W	42.0	6.3	96	0.89	-33	202	ZF TE-ML 07F	Caterpillar TO-4	Allison C-4
								<i>High-performance, heavy-duty transmission and drivetrain lubricant. Designed to optimise the performance of powershift transmissions, gearboxes, final drives, and hydraulic systems used in off-highway applications.</i>		
Mobiltrans HD 30	30	100	11.2	97	0.89	-18	224	ZF TE-ML-03C/07F	Caterpillar TO-4	Allison C-4
								<i>High-performance, heavy-duty transmission and drivetrain lubricant. Designed to optimise the performance of powershift transmissions, gearboxes, final drives, and hydraulic systems used in off-highway applications.</i>		
Mobiltrans AST		107	14.2	134	0.882	-39	222		Caterpillar TO-4M	Allison C-4
								<i>Extra high-performance drivetrain lubricant engineered to meet or exceed the requirements of Caterpillar's new TO-4M performance specifications for off-highway transmissions, drivetrains, and hydraulic systems. All Season Transmission lubricant for light to severe duty off-highway equipment operating in a wide range of environments.</i>		

Useful information

Mobil industrial lubricants are available as standard in the following sizes:

Lubricating oils:

- Lose Tanker
- 1000 liters IBC
- 208 liter steel drum
- 60 liter steel drum (Keg)
- 20 liter plastic container (Pail)

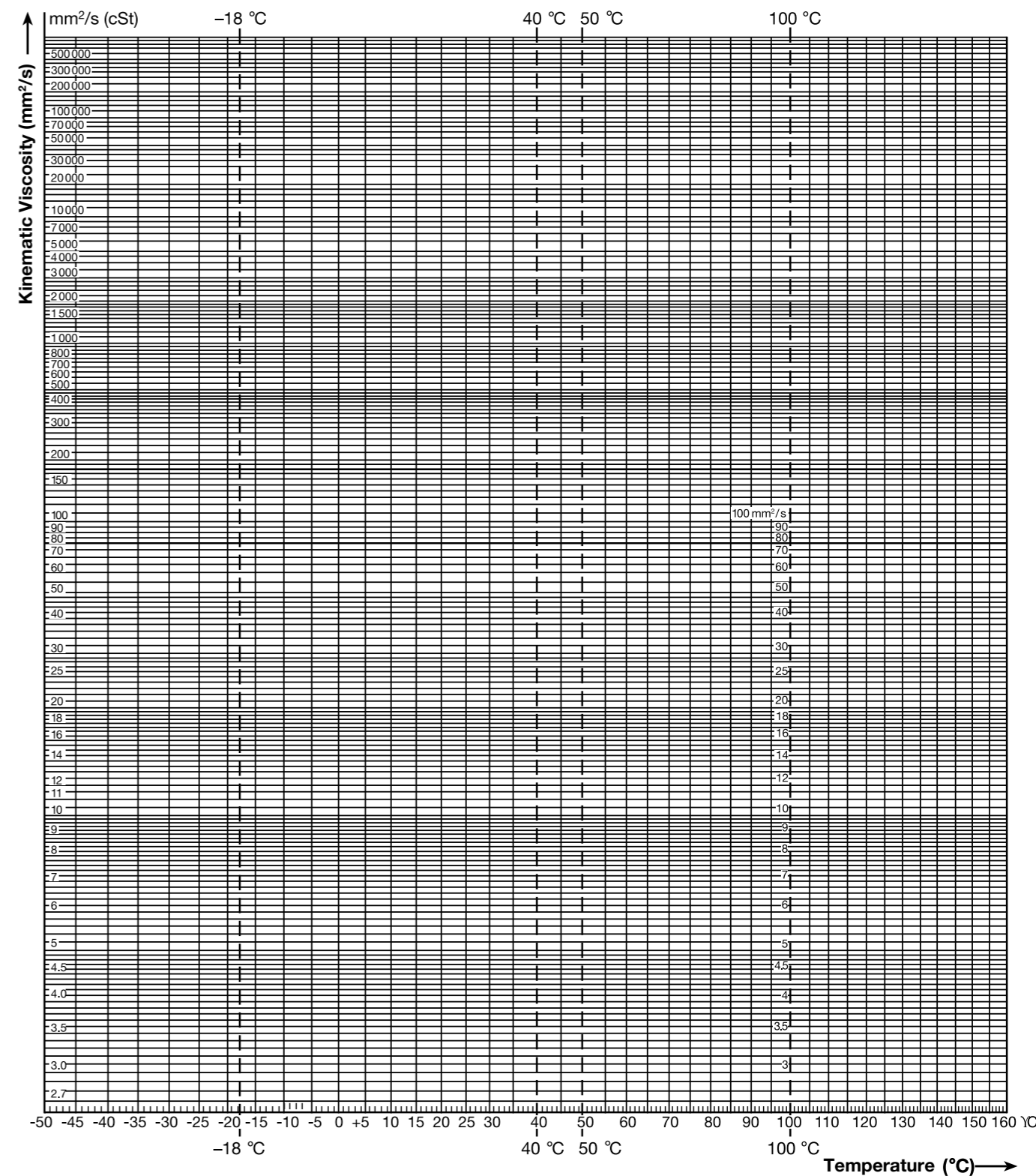
Greases:

- 180 kg steel drum
- 18 kg plastic bucket (Pail)
- 12 x 400 g cartridges

Comments:

Not every product is available in all packages.

Kinematic Viscosity-Temperature-Diagram



ISO Viscosity Classification

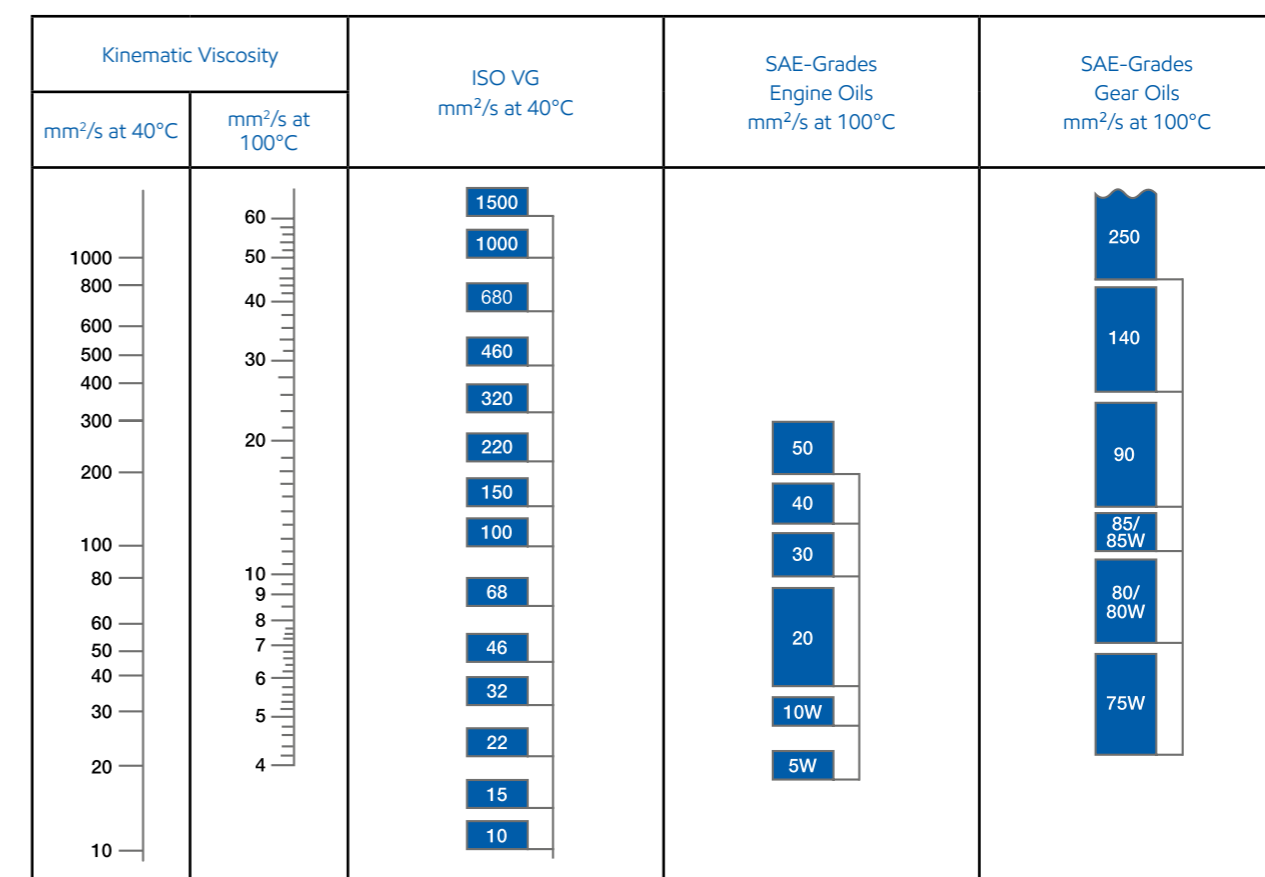
The ISO Viscosity Grades are an International System approved by the International Standards Organisation for classifying lubricants according to viscosity. Each ISO Viscosity Grade corresponds to a mid-point of a viscosity range expressed in centiStokes (cSt or mm²/s) at 40°C.

ISO Viscosity Grade	Viscosity Ranges at 40 °C	Mid Point
ISO VG 2	1.98 – 2.42	2.2
ISO VG 3	2.88 – 3.52	3.2
ISO VG 5	4.14 – 5.06	4.6
ISO VG 7	6.12 – 7.48	6.8
ISO VG 10	9.00 – 11.0	10
ISO VG 15	13.5 – 16.5	15
ISO VG 22	19.8 – 24.2	22
ISO VG 32	28.8 – 35.2	32
ISO VG 46	41.4 – 50.6	46
ISO VG 68	61.2 – 74.8	68
ISO VG 100	90.0 – 110	100
ISO VG 150	135 – 165	150
ISO VG 220	198 – 242	220
ISO VG 320	288 – 352	320
ISO VG 460	414 – 506	460
ISO VG 680	612 – 748	680
ISO VG 1000	900 – 1100	1000
ISO VG 1500	1350 – 1650	1500

Grease Consistency (NLGI)

Grade NLGI	Penetration 0,1 mm 25°C (after 60-stroke worked)
000	445 – 475
00	400 – 430
0	355 – 385
1	310 – 340
2	265 – 295
3	220 – 250

SAE ISO Viscosity Classification



SAE

SAE International, formerly the Society of Automotive Engineers, is a U.S.-based, globally active professional association and organization for engineering professionals in various industries. Principal emphasis is placed on transport industries such as automotive, aerospace, and commercial vehicles. The Society coordinates the development of technical standards based on best practices identified and described by SAE committees and task forces.



Notes

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Notes

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ExxonMobil Petroleum & Chemical BVBA

Polderdijkweg
B-2030 Antwerpen

TechDeskEurope@exxonmobil.com

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