

Product Summary Industrial Lubricants



Nordic



Mobil



Foreword

This Product Summary guide describes the Mobil Industrial, Marine and Aviation 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.

The guide aims to provide a better understanding of the Mobil products for the Aviation, Marine and Industrial sectors to help select the most appropriate lubricant.

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 for Finland: 0800 114 181, Sweden: 0200 810378, Norway: 800 36926, Denmark: 8060 1110 or via 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.

The data was last updated on 1 November 2010.



Mobil SHC

Sustainability in motion



Helping productivity take off — and the world move ahead.

At ExxonMobil Lubricants & Specialties, we recognize the importance of addressing sustainability in today's global marketplace — balancing economic growth, social development, and environmental protection, so that future generations are not compromised by actions taken today. We manage this challenge as part of our focused commitment to act as a responsible employer, business partner, and neighbor. Through our products, processes, and people, we put sustainability in motion.

Mobil SHC: Enhancing sustainability through synthetics.

With our industry-leading technology and engineering resources, we offer some of the most innovative lubricant and specialty products and services that help deliver tangible performance- and sustainability-related benefits. For nearly 50 years, we have been forerunners in developing high-performance synthetic lubricants, offering innovations beyond the capabilities of conventional mineral oils. Mobil SHC lubricants provide distinct advantages — helping extend the service life of machine components and reducing oil changes, as well as potentially reducing or eliminating equipment failure and unscheduled shutdowns. All contributing to reduced energy and resource use, lower emissions, and cost savings for industrial machinery.

- **Longer oil life.** Innovations in synthetic-based product formulations and programs help deliver longer lubricant performance cycles and extended oil life — helping reduce lubricant consumption, used oil volumes, and operating expenses. For example:
 - **Mobil Rarus SHC 1000 Series** high-performance synthetic oils for severe-duty rotary screw and vane air compressors offer a drain interval five times longer than mineral oils in select manufacturer equipment.
 - **Mobil SHC Pegasus** natural gas engine oils exhibited average energy savings of up to 1.5% in independent university laboratory testing and statistically validated field tests.*

**Mobil SHC provides up to 5 times the life of mineral lubricants.
A longer drain interval not only saves money on lubrication purchases,
it decreases environmental impact as well.**

• **Extended equipment life.** Our advanced-technology lubricants help protect and extend equipment life, which in turn significantly helps minimize the need to purchase new equipment and associated maintenance, disposal, and replacement costs. For example:

— **Mobil SHC** synthetic lubricants and greases, used in a wide range of industrial equipment applications, are recognized for longer oil performance cycles, which help extend equipment life, produce less used oil, and offer potential energy savings.

— **Mobilith SHC Series** supreme-performance synthetic greases, by protecting against wear, rust, and corrosion at high and low temperatures, extend bearing and re-greasing intervals, resulting in reduced spare part and grease use and lower maintenance costs.

• **Energy portfolio diversification.** Mobil SHC lubricants play a role in a number of power-generation applications used in wind turbines, geothermal and cogeneration plants, hydroelectric installations, and nuclear facilities. For example:

— **Mobilgear SHC XMP** synthetic gear oil delivers optimum equipment protection and oil performance for extreme operating conditions associated with wind turbines — lubricating more than 25,000 worldwide. Analysis of more than 15,000 used-oil samples of Mobilgear SHC XMP indicates superb wear protection and virtually no emergency maintenance alerts due to oil aging over the years. Besides protecting against wear, Mobilgear SHC XMP exceeds performance of traditional oils by extending the interval between oil changes from 18 months to three years or more.



Mobil SHC is one example of how our company supports sustainability. From our range of industrial lubricants to vehicle engine oils, to marine and aviation lubes, to basestocks and specialty offerings, our company continues to help drive business solutions and progress forward, while also protecting, advancing, and sustaining economic, environmental, and social assets.

We put sustainability in motion to keep our world moving ahead to a better future.

*Efficiency measurements relate solely to the fluid performance when compared with ExxonMobil standard SAE 40 natural gas engine oils.

To see how we put sustainability in motion, visit exxonmobil.com/lubes.
For more information about our products, please visit mobilindustrial.com.

ExxonMobil

Lubricants & Specialties

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Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 832	32	30	5,4	110	0,860	-30	224	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101, 812106, 812108 GE GEK 28143A, GE GEK 32568C, 32568E and 32568F GE GEK 46506D, GE GEK 101941A GE GEK 107395 Siemens Westinghouse PD-55125Z3 Solar ES 9-224 Class II JIS K-2213 type 2 with additives DIN 51515 L-TG	
MOBIL DTE 846	46	42	6,2	106	0,870	-30	244	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102, 812107, 812109 GE GEK 28143A GEC Alstom NBA 50001A Solar ES 9-224 Class II JIS K-2213 type 2 with additives DIN 51515 L-TG DIN 51515 L-TD	
MOBIL DTE 732	32	30	5,4	110	0,850	-30	221	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101 GE GEK 28143A GE GEK 27070 GE GEK 32568F GE GEK 46506D GE Alstom NPA 50001A Siemens PD -55125Z3 China National Standard GB11120-89 L-TSA JIS K-2213 type 2 with additives ISO 8068 L-TGB ISO 8068 L-TGSB DIN 51515 L-TG DIN 51515 L-TD ASTM D4304 Rev A typ III and type I (2006)	
MOBIL DTE 746	46	44	6,8	106	0,860	-30	232	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102 GE GEK 28143A GEC Alstom NPA 50001A China National Standard GB11120-89 L-TSA JIS K-2213 type 2 with additives SKODA TP 0010P/97 (CSN 65 6620) ISO 8068 L-TGB ISO 8068 L-TGSB DIN 51515 L-TG DIN 51515 L-TD ASTM D4304 Rev A typ III and type I (2006)	



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 LIGHT	32	31	5,5	102	0,850	-18	218		GE GEK 28143A GE GEK 46506D GE GEK 27070 JIS K-2213 type 2 with additives DIN 51515 L-TD DIN 51524 L-HL DIN 51517 L-CL	
	<i>Premium performance circulation oil for steam and hydroturbine sets. Also for continuous lubrication of plain and roller bearings. High thermal stability and rapid separation from water.</i>									
MOBIL DTE OIL MEDIUM	46	45	6,9	98	0,860	-15	221		GE GEK 28143A JIS K-2213 type 2 with additives DIN 51515 L-TD DIN 51524 L-HL DIN 51517 L-CL	
	<i>Premium performance circulation oil for steam and hydroturbine sets. Also for continuous lubrication of plain and roller bearings. High thermal stability and rapid separation from water.</i>									
MOBIL DTE OIL HEAVY MEDIUM	68	65	8,7	95	0,870	-15	223		JIS K-2213 type 2 with additives DIN 51515 L-TD DIN 51524 L-HL DIN 51517 L-CL	
	<i>Premium performance circulation oil for steam and hydroturbine sets. Also for continuous lubrication of plain and roller bearings. High thermal stability and rapid separation from water.</i>									
MOBIL DTE OIL HEAVY	100	95.1	10.9	92	0,880	-15	237		DIN 51515-1 DIN 51517 DIN 51524	
TERESSTIC T 32	32	32	5,4	100	0,860	-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 28143A GE GEK 46506D GE GEK 27070 GEC Alstom NBA 50001A Siemens Westinghouse PD-55125Z3 DIN 51515 L-TD JIS K-2213 type 2 with additives	
	<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	0,870	-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 GE GEK 28143A GEC Alstom NBA 50001A DIN 51515 L-TD JIS K-2213 type 2 with additives	
	<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	0,870	-30	220	Alstom Power HTGD 90 117	DIN 51515 L-TD China national standard GB 11120-89 L-TSA JIS K-2213 type 2 with additives	
	<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>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 624	32	32	6,3	159	0,849	-54	230			
	<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 rolling element bearings.</i>									
MOBIL SHC 626	68	70	10,9	147	0,856	-54	230	Cincinnati Machine P-80		
	<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 rolling element bearings.</i>									
MOBIL SHC 629	ISO VG 150	143	18,3	144	0,862	-45	230	Flender BA 7300 Table A		
	<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 rolling element bearings.</i>									
MOBIL SHC 630	ISO VG 220	216	25,2	152	0,865	-39	238	Flender BA 7300 Table A Cincinnati Machine P-74		
	<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 rolling element bearings.</i>									
MOBIL SHC 632	320	326	38,6	169	0,866	-36	250	Flender BA 7300 Table A Cincinnati Machine P-59		
	<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 rolling element bearings.</i>									
MOBIL SHC 634	460	436	44,9	159	0,867	-36	262	Flender BA 7300 Table A Cincinnati Machine P-35		
	<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 rolling element bearings.</i>									
MOBIL SHC 639	1000	933	79,5	164	0,868	-15	270	Flender BA 7300 Table A Cincinnati Machine P-78		
	<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 rolling element bearings.</i>									
MOBIL VACUOLINE 128	150	150	14,8	96	0,890	-9	280		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
	<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 137	320	320	23,9	95	0,900	-9	286		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
	<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	0,900	-6	296		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
	<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	I	93	10,7	99	0,880	-21	264		Morgan No Twist Rod Mill Lubricant 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>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 VACUOLINE 528	150	146	14,4	96	0,890	-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	218	18,8	96	0,890	-18	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	325	24,4	96	0,900	-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	436	29,4	95	0,900	-15	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>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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	5,3	96	0,883	-9	218	Cincinnati Machine P-53		
	<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 2	68	68	8,6	96	0,883	-9	218	Cincinnati Machine P-47		
	<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 3	150	150	14,5	96	0,887	-9	230			
	<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	220	18,3	96	0,892	-6	242	Cincinnati Machine 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>									
MOBIL VELOCITE OIL NO 3	2	2,1	0,95		0,802	-36	84	Cincinnati Machine P-65		
	<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		4,8	1,53		0,822	-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	2,62		0,844	-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	22,1		0,862	-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 <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 522	15	15	3,6	135	0,855	-54	210			
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
MOBIL SHC 524	32	32	6,4	144	0,852	-54	234	Denison HF-0/HF-1/ HF-2 Cincinnati P-68		
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
MOBIL SHC 525	I	46	8,5	154	0,851	-54	238	Denison HF-0/HF-1/ HF-2 Cincinnati P-70		
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
MOBIL SHC 526	68	68	11,5	158	0,854	-48	216	Denison HF-0/HF-1/ HF-2 Cincinnati P-69		
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
MOBIL DTE 10 EXCEL 15	15	16	4,1	168	0,834	-54	182		DIN 51524 pt 3 ISO 11158 HV	
	<i>New category premium quality hydraulic oil with potential hydraulic/fuel efficiency</i>									
MOBIL DTE 10 EXCEL 32	32	33	6,6	164	0,847	-54	250	Denison HF-O	DIN 51524 pt 3 ISO 11158 HV JCMAS HK-1	
	<i>New category premium quality hydraulic oil with potential hydraulic/fuel efficiency</i>									
MOBIL DTE 10 EXCEL 46	46	46	8,5	164	0,850	-45	232	Denison HF-O CM P70	DIN 51524 pt 3 ISO 11158 HV JCMAS HK-1	
	<i>New category premium quality hydraulic oil with potential hydraulic/fuel efficiency</i>									
MOBIL DTE 10 EXCEL 68	68	68	11,1	156	0,863	-39	240	Denison HF-O CM P69	DIN 51524 pt 3 ISO 11158 HV	
	<i>New category premium quality hydraulic oil with potential hydraulic/fuel efficiency</i>									
MOBIL DTE 10 EXCEL 100		100	13,0	127	0,877	-33	258		DIN 51524 pt 2 ISO 11158 HM	
	<i>New category premium quality hydraulic oil with potential hydraulic/fuel efficiency</i>									
MOBIL DTE 10 EXCEL 150		156	17,2	120	0,882	-30	256		DIN 51524 pt 2 ISO 11158 HM	
	<i>New category premium quality hydraulic oil with potential hydraulic/fuel efficiency</i>									
MOBIL DTE 21	10	10	2,7	85 min	0,845	< -24	> 166	Denison HF-0 Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
MOBIL DTE 22	22	21	4,5	98	0,860	-30	200	Denison HF-0 Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
MOBIL DTE 24	32	31	5,3	98	0,871	-27	220	Denison HF-0/HF-1/ HF-2 Vickers I-286-S Vickers M-2950-S Cincinnati P-68	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 25	46	44	6,6	98	0,876	-27	232	Denison HF-0/HF-1/ HF-2 Vickers I-286-S Vickers M-2950-S Cincinnati P-70	DIN 51524 Part 2 ISO 11158 Type HM	
	Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.									
MOBIL DTE 26	68	71	8,5	98	0,881	-21	236	Denison HF-0/HF-1/ HF-2 Vickers I-286-S Vickers M-2950-S Cincinnati P-69	DIN 51524 Part 2 ISO 11158 Type HM	
	Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.									
MOBIL DTE 27	100	100	10,9	95 min	0,887	< -15	212 min			
	Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.									
MOBIL EAL HYDRAULIC OIL 32	32	32	7,1	195	0,91	< -39	> 320	RAL BLUE ANGEL RAL-UZ 79	WGK Non Water Hazardous ISO 15380 HEES Swedish standard SS 15 54 34	
	High quality, anti-wear environmentally aware hydraulic oil. Used in a wide range of mobile equipment in moderate service conditions.									
MOBIL EAL HYDRAULIC OIL 46	46	46	9,6	160	0,917	< -30	300	RAL BLUE ANGEL RAL-UZ 79	WGK Non Water Hazardous ISO 15380 HEES Swedish standard SS 15 54 34	
	High quality, anti-wear environmentally aware hydraulic oil. Used in a wide range of mobile equipment in moderate service conditions.									
UNIVIS HVI 13	15	14	5,3	384	0,872	-60	101			
	Premium performance anti-wear 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.									
UNIVIS HVI 26		26	9,3	360	0,878	-60	103		ISO 6743-4 HV	
	Premium performance anti-wear 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.									
UNIVIS N 32	32	32	6,4	151	0,873	-48	208		Vickers I-286-S Vickers M-2950-S DIN 51524 Part 3 ISO 11158 Type HV	Denison HF-0
	Premium high performance anti-wear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.									
UNIVIS N 46	46	46	8,2	152	0,875	-45	216		Vickers I-286-S Vickers M-2950-S DIN 51524 Part 3 ISO 11158 Type HV	Denison HF-0
	Premium high performance anti-wear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.									
UNIVIS N 68	68	68	11	152	0,883	-42	222		Vickers I-286-S Vickers M-2950-S DIN 51524 Part 3 ISO 11158 Type HV	Denison HF-0
	Premium high performance anti-wear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.									
MOBIL PYROTEC HFD 46	46	46					250 min			
	Fire resistant phosphoric acid ester based HFD fluid. Designed especially for use in turbines and turbine control systems requiring HFD-R fluids.									
QUINTO-LUBRIC 888-68	68									
	High performance fire resistant hydraulic fluid. Based on synthetic polyolester basestocks HF-DU type. Good compatibility with elastomers. Used where fire hazard and environmental considerations are important.									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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	0,907	-6	282			
<i>Extra high performance, high viscosity oil for steam cylinders. Lubrication of high load and slow moving bearings and gears. Also suitable for use in worm gears.</i>										
MOBIL EXTRA HECLA SUPER CYLINDER OIL	1000	1000	42	80	0,925	3	288			
<i>Extra high performance, high viscosity oil for steam cylinders. Lubrication of high load and slow moving bearings and gears. Also suitable for use in worm gears.</i>										



Brand name	ISO VG	Kinematic Viscosity mm ² /s or cSt		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 SHC XMP 150	150	150	20,7	161	0,855	-48	240		AGMA 9005-D94 4S DIN 51517-3	
	Supreme performance, fully 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.									
MOBILGEAR SHC XMP 220	220	220	27,8	163	0,859	-45	240		AGMA 9005-D94 5S DIN 51517-3	
	Supreme performance, fully 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.									
MOBILGEAR SHC XMP 320	320	335	38,3	164	0,860	-39	240		AGMA 9005-D94 6S DIN 51517-3	
	Supreme performance, fully 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.									
MOBILGEAR SHC XMP 460	460	460	48,7	166	0,863	-36	240		AGMA 9005-D94 7S DIN 51517-3	
	Supreme performance, fully 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.									
MOBILGEAR SHC XMP 680	680	680	65,3	168	0,866	-30	240		AGMA 9005-D94 8S DIN 51517-3	
	Supreme performance, fully 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.									
MOBILGEAR XMP 150	150	150	14,6	96	0,896	-27	258	Flender BA 7300 Table A	DIN 51517-3 ISO 12925-1 Type CKC	
	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	0,900	-24	265	Flender BA 7300 Table A	AGMA 9005-D94 5-EP DIN 51517-3 ISO 12925-1 Type CKC	
	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	0,903	-18	268	Flender BA 7300 Table A	AGMA 9005-D94 6-EP DIN 51517-3 ISO 12925-1 Type CKC	
	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	0,907	-12	270	Flender BA 7300 Table A	AGMA 9005-D94 7-EP DIN 51517-3 ISO 12925-1 Type CKC	
	Extra high performance industrial gear oils for extreme conditions. Recommended for heavily loaded gearboxes with surface-hardened tooth metallurgies subject to micropitting.									
MOBILGEAR 600 XP 68	68	68	8,8	101	0,88	-27	230		AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-2	
	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	0,884	-24	230	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-3	
	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.									



Brand name	ISO VG	Kinematic Viscosity mm ² /s or cSt		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 150	150	150	14,7	97	0,888	-24	230	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-4	
	<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 220	220	220	19	97	0,894	-24	240	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-5	
	<i>Extra high performance gear oils 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	98	0,900	-24	240	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E06-EP DIN 51517 CLP (2004) ISO 12925-1 Type L-CKD	
	<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	98	0,904	-15	240	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E07-EP DIN 51517 CLP (2004) ISO 12925-1 Type CKC	
	<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	36,4	98	0,914	-9	240	Flender BA 7300 Table A	AGMA 9005-E08-EP DIN 51517 CLP (2004) ISO 12925-1 Type CKC	
	<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	137	1,009	-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.</i>									
MOBIL GLYGOYLE 22	I	177	25,1	173	1,007	-42	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.</i>									
MOBIL GLYGOYLE 30	220	224	30,9	181	1,006	-42	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.</i>									
MOBIL GLYGOYLE 220	220	220	38,1	225	1,077	-30	270			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene 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. Plain and rolling contact bearings in wide variety of applications.</i>									
MOBIL GLYGOYLE 320	320	320	55,2	240	1,077	-30	270			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene 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. Plain and rolling contact bearings in wide variety of applications.</i>									
MOBIL GLYGOYLE 460	460	460	78,2	253	1,076	-30	265			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene 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. Plain and rolling contact bearings in wide variety of applications.</i>									
MOBIL GLYGOYLE 680	680	680	113	267	1,076	-30	265			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene 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. Plain and rolling contact bearings in wide variety of applications.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 SHC 3200	3200	3025	171	165	0,883	-12	240			
<i>Very high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and rolling bearings. Does not contain any solvent.</i>										
MOBILGEAR SHC 6800	I	8100	357	175	0,897		240			
<i>Very high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and rolling bearings. Does not contain any solvent.</i>										
MOBILTAC 375 NC		5000 with solvent	1600 without solvent		0,960		> 120 with solvent			
<i>High quality, diluent-type lubricant for lubrication of large, slow moving, heavily loaded open gears. Resistant to rain, snow and process water washing.</i>										



Brand name	ISO VG	Kinematic Viscosity mm ² /s or cSt		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
GARGOYLE ARCTIC SHC 224	32	29	5,6	132	0,82	<-54	230		FDA 21 CFR 178.3570	NSF H1 registered
<i>Fully 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, R-22 and other HCFCs and carbon dioxide.</i>										
GARGOYLE ARCTIC SHC 226E	68	67	10,1	136	0,835	-45	266			NSF H1 registered
<i>Fully 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, R-22 and other HCFCs and carbon dioxide.</i>										
GARGOYLE ARCTIC SHC 228	100	97	13,7	147	0,838	-45	255			NSF H1 registered
<i>Fully 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, R-22 and other HCFCs and carbon dioxide.</i>										
GARGOYLE ARCTIC SHC 230	220	220	25	149	0,846	-39	260		FDA 21 CFR 178.3570	NSF H1 registered
<i>Fully 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, R-22 and other HCFCs and carbon dioxide.</i>										
GARGOYLE ARCTIC SHC NH 68	68	64	8,5	111	0,850	-54	211			
<i>Fully synthetic refrigeration compressor oil blended with PAO and alkyl benzene basestocks. Recommended for screw and reciprocating compressors, using ammonia as refrigerant.</i>										
GARGOYLE ARCTIC OIL 155	32	32			0,910	< -33	166 min			
<i>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.</i>										
GARGOYLE ARCTIC OIL 300	68	68			0,910	< -30	180 min			
<i>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.</i>										
MOBIL EAL ARCTIC 22	22	23	4,6	130	1,000	-57	236			
<i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i>										
MOBIL EAL ARCTIC 32	32	34	5,8	115	0,985	-48	236			
<i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i>										
MOBIL EAL ARCTIC 46	46	46	7,3	104	0,975	-42	235			
<i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i>										
MOBIL EAL ARCTIC 68	68	65	8,3	101	0,976	-36	240			
<i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i>										
MOBIL EAL ARCTIC 100	100	98	10,5	92	0,966	-30	250			
<i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i>										
MOBIL EAL ARCTIC 220	220	220	18,5	90	0,960	< -21	250			
<i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i>										
MOBIL ZERICE S 32	32	32			0,910	-42	190			
<i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i>										



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 ZERICE S 46	46	46	5,7		0,865	-36	172			
<i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i>										
MOBIL ZERICE S 68	68	64	6,5		0,870	-33	186			
<i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i>										
MOBIL ZERICE S 100	100	98	8,1		0,870	-30	196			
<i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i>										



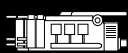
Brand name	ISO VG	Kinematic Viscosity mm ² /s or cSt		Viscosity Index	Density at 15°C g/cm ³	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBIL RARUS SHC 1024	32	32	5.6	127	0,846	-39	245			
	<i>Fully synthetic, supreme performance oil for the lubrication of rotary screw and vane air compressors. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
MOBIL RARUS SHC 1025	46	46	7.2	131	0.849	-48	236			
	<i>Fully synthetic, supreme performance oil for the lubrication of rotary screw and vane air compressors. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
MOBIL RARUS SHC 1026	68	67	10.4	144	0,854	-45	246			
	<i>Fully synthetic, supreme performance oil for the lubrication of rotary screw and vane air compressors. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
MOBIL RARUS 827	100	107	10,1	66	0,945	-36	270			
	<i>Synthetic, supreme performance air compressor oil. For use for severe duty reciprocating air compressors. Stationary and mobile equipment.</i>									
MOBIL RARUS 829	150	150	13,2	77	0,976	-39	270			
	<i>Synthetic, supreme performance air compressor oil. For use for severe duty reciprocating air compressors. Stationary and mobile equipment.</i>									
MOBIL RARUS 424	32	32	5,4	106	0,866	-33	236		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									
MOBIL RARUS 425	46	46	6,9	105	0,873	-30	238		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									
MOBIL RARUS 427	100	106	11,6	98	0,879	-21	264		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									
MOBIL RARUS 429	150	147	14,7	99	0,886	-27	278		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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	0.883	-24	188		Ingersoll Rand (Rock drill oil light) Ingersoll Rand (Rock drill oil extra light)	
MOBIL ALMO 527	100	113	11.4	91	0.899	-30	204		Ingersoll Rand (Rock drill oil medium) Ingersoll Rand (Rock drill oil light)	



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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
MOBILECT 44		7,6			0.877 (density at 20°C)	-63	146		ANSI /ASTM D3487 type II IEC 60296 -03 (I)	
<p><i>High quality mineral oil insulating oil with very good dielectric properties and oxidation stability for transformers, switch gears and other electrical equipment. Inhibited to improve oxidation resistance.</i></p>										



Brand name	ISO VG	SAE Grade	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 PEGASUS 1		15W-40	94	13,1	137	0,854	-48	238	MAN M 3271-1 MAN M 3271-2 Deutz MWM Waukesha Cogeneration VOLVO CNG FUELED BUS ENGINES MB 226.9		Wartsila NSD W25SG
	<i>TBN = 6,5. Ash = 0,48% 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	13,6	100	0,850	-15	247	Caterpillar GE Jenbacher Deutz Power Systems Wartsila MAK		
	<i>TBN = 5. Ash = 0,5%. High performance gas engine oil providing today's high output, low-emission four-cycle gas engines with the highest levels of protection. Pegasus 1005 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 801	S	40	132	13,2	97	0,886	-15	249			
	<i>TBN = 2,8. Ash = 0,1% Premium performance, low ash gas engine oil for natural, sweet gas and other gases with low sulphur content.</i>										
MOBIL PEGASUS 805	S	40	130	13,5	99	0,890	-12	262	Deutz MWM Wartsila		Jenbacher Caterpillar Waukesha
	<i>TBN = 6,2. Ash = 0,5% Premium performance gas engine oil. For high output 4-stroke engines.</i>										
MOBIL PEGASUS 705		40	126	13,2	98	0,887	-15	252	Wartsila MTU MAN		Caterpillar Deutz Jenbacher
	<i>TBN = 5,6. Ash = 0,52% High quality gas engine oil for medium and high speed gas engines under heavy duty operation, with high neutralisation capacity.</i>										
MOBIL PEGASUS 710	S	40	128	13,2	98	0,896	-15	249			Jenbacher Waukesha
	<i>TBN = 6,5. Ash = 0,94% High performance gas engine oil for mildly aggressive biogases.</i>										
MOBIL PEGASUS 605	S	40	129	13,4	96	0,887	-18	255	MDE		Deutz Caterpillar Waukesha
	<i>TBN = 7.1. Ash = 0,5% 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	S	40	132	13,6	98	0,889	-18	257	Jenbacher MAN		Wartsila Waukesha
	<i>TBN = 11,1. Ash = 1,0% High performance gas engine oil for medium and high speed 4-stroke engines operating on corrosive fuel such as hydrogen sulphide and halogens.</i>										



Brand name	ISO VG	Kinematic Viscosity mm ² /s or cSt		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 32		30	5,4		0,857	-6	230			
	<i>Regular heat transfer fluid, based on solvent refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in a broad range of applications</i>									
MOBILTHERM 603		20	4,2		0,836	-3	210			
	<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	5,4		0,857	-6	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 611		490			0,906	-6	294			
	<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>									



Brand name	Density at 15°C g/cm ³	Appearance at 3% Dilution	pH at 3%	Mineral Oil Content %	Specifications		
					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
KUTWELL 42	0,896	Milky	8,9	75		GERMAN TRGS 611	
	<i>Multi-purpose metal-working fluid with high oil content. Good emulsion stability in a wide variety of waters. Used for machining ferrous and non ferrous metals.</i>						
MOBILCUT 122	0,900	Milky	9,5	70			
	<i>Multi-purpose metal-working fluid with high oil content. Good emulsion stability in a wide variety of waters. Used for machining ferrous and non ferrous metals.</i>						
MOBILCUT 141	0,950	Milky	9,1				
	<i>Multi-purpose biostable metal-working fluid. Used for machining of aluminium, ferrous and yellow metals.</i>						
MOBILCUT 231	0,977	Milky	9,4	40			
	<i>Multi-purpose semi-synthetic metal-working fluid. Good emulsion stability in a wide variety of waters. Used for machining of steels, cast iron and non ferrous metals.</i>						
MOBILCUT 321	1,120	Yellow	8,9	0			
	<i>Fully synthetic, long life, mineral oil free grinding fluid. Provides good long-term corrosion protection for machine tools and components.</i>						



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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 426		36	6,2	130		-27	210			
<i>Multi purpose light/medium EP neat cutting oil. Suitable for a wide range of machining operations on all types of metals, including yellow metals. Can be used as a hydraulic fluid in non-critical systems.</i>										
MOBILMET 446		32	6	132	0,882	-24	210			
<i>Recommended for a wide range of severe machining operations on all types of metals, including yellow metals. Chlorine free for lower disposal costs.</i>										
MOBILMET 762		10	2,7	110	0,863	-42	168			
<i>Chlorine free oil with antimist additives for heavy duty cutting operations, including difficult to machine steels. Copper corrosive so cannot be used for machining copper based alloys.</i>										
MOBILMET 763		19	4,2	128	0,874	-27	180			
<i>Chlorine free oil with antimist additives for heavy duty cutting operations, including difficult to machine steels. Copper corrosive so cannot be used for machining copper based alloys.</i>										
VACMUL G13		13	3.1		0,862	-18	190			
<i>Chlorine free oil with antimist additives for demanding grinding operations. Suitable for grinding of gearwheels, axles and bearings.</i>										
MOBIL VACMUL EDM2		1.61			0.791		83			
<i>Multipurpose dielectric fluid for use in all discharge machines working by penetration. Especially for roughing, finishing and superfinishing operations.</i>										



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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	10,5	95	0,882	-21	220			
<i>High performance rust preventive, SAE 30, recommended for temporary corrosion protection of hydraulic systems, gear boxes and engines.</i>										
MOBILARMA 798			23.1				238			
<i>Heavy duty rust preventative for long term corrosion protection in outdoor applications. Lubrication of wire ropes.</i>										
MOBILARMA MT		1,8			0,813		60			
<i>Solvent based corrosion preventive for medium and term protection. Thin film and high coverage capacity. Higher flash point and lower evaporation for enhanced operator safety.</i>										
MOBIL RUST PREVENTATIVE 778		24.5		145	0.897	-48	190			
<i>Solvent based corrosion preventive for short and medium protection of galvanized steel sheets and coils. Higher flash point and lower evaporation for enhanced operator safety.</i>										



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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	DIN 51506 VDL DIN 51524 HLP ISO 11158 HM NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL SHC CIBUS 46	46	43	7,7	148	0,833	-51	258	Kosher Halal	DIN 51506 VDL DIN 51524 HLP ISO 11158 HM NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL SHC CIBUS 68	68	72	11,4	151	0,838	-48	267	Kosher Halal	DIN 51506 VDL DIN 51524 HLP ISO 11158 HM NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL SHC CIBUS 150	150	162	20,7	150	0,843	-21	226	Kosher Halal	DIN 51517 CLP NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL SHC CIBUS 220	220	22	24,5	139	0,843	-24	274	Kosher Halal	DIN 51517 CLP NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL SHC CIBUS 320	320	311	32,7	147	0,854	-42	284	Kosher Halal	DIN 51517 CLP NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL SHC CIBUS 460	460	458	43,6	148	0,856	-42	294	Kosher Halal	DIN 51517 CLP NSF H1 Registered	
	<i>Premium quality synthetic H1 registered lubricant suitable for use in food processing machinery</i>									
MOBIL DTE FM 32	32	32	5,5		0,862	-12	212		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as a hydraulic oil as well as for compressor and vacuum pump lubricant.</i>									
MOBIL DTE FM 46	46	46	6,8		0,868	-9	226		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as a hydraulic and compressor oil.</i>									
MOBIL DTE FM 68	68	69	8,7		0,873	-12	228		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as hydraulic and compressor oil.</i>									



Brand name	ISO VG	Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
						Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBILGREASE FM 101	100		1	Aluminium Complex		Kosher Halal	NSF H1 registered DIN KPF1K-20	
	<i>Multipurpose grease for the food and beverage industry. Centralized grease distribution systems.</i>							
MOBILGREASE FM 222	220		2	Aluminium Complex		Kosher Halal	NSF H1 registered DIN KPF2K-20	
	<i>Multipurpose grease for the food and beverage industry.</i>							



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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	131	0,857	-39	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
MOBIL SHC PM 220	220	225	25,6	133	0,863	-36	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
MOBIL SHC PM 320	320	325	34,7	135	0,865	-33	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
MOBIL PAPER MACHINE OIL S 220	220	220	27	153	0,88	-48	214			
	<i>High performance synthetic lubricant specifically designed for demanding industrial paper machine circulation systems where oil darkening is a problem. Designed to provide excellent protection of gears and bearings operating under severe conditions.</i>									
MOBIL DTE PM 150	150	150	14,7	95	0,884	-6	240			
	<i>High quality, high performance lubricant for demanding industrial paper machine circulation systems. Excellent separation from water. Good anti-wear performance.</i>									
MOBIL DTE PM 220	220	220	19	95	0,888	-6	250	SKF Paper Machine Oils for Drier Section (OHF-T-3) FAG Paper Machine for Drier Section		
	<i>High quality, high performance lubricant for demanding industrial paper machine circulation systems. Excellent separation from water. Good anti-wear performance.</i>									



Brand name	ISO VG	Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
						Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBILITH SHC PM 220	220		1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
<p><i>Designed for use in the most critical rolling element 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></p>								
MOBILITH SHC PM 460	460		1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
<p><i>Designed for use in the most critical rolling element 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></p>								



Brand name	ISO VG	Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
						Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBILGEAR OGL 007	460		00	Lithium	180 min			
<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	1500		00	Lithium	180 min			
<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	460		1,5	Lithium	180 min			
<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>								



Brand name	ISO VG	Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
						Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring NSF H1 registered
MOBIL SHC POLYREX 462	460		2	Polyurea	250 min	Kosher & Parve	DIN KPF2P-20	NSF H1 registered
	<i>Supreme performance fully synthetic grease designed to improve productivity by solving high temperature lubrication problems in both general industry and food processing applications. It offers a combination of high temperature performance, excellent water resistance and balanced performance properties.</i>							
MOBIL SHC POLYREX 222	220		2	Polyurea	260 min	Kosher & Parve	DIN KPF2P-30	NSF H1 registered
	<i>Supreme performance fully synthetic grease designed to improve productivity by solving high temperature lubrication problems in both general industry and food processing applications. It offers a combination of high temperature performance, excellent water resistance and balanced performance properties.</i>							
MOBIL SHC POLYREX 005	220		00	Polyurea		Kosher & Parve	DIN GPF00K-30	NSF H1 registered
	<i>Supreme performance fully synthetic grease designed to improve productivity by solving high temperature lubrication problems in both general industry and food processing applications. It offers a combination of high temperature performance, excellent water resistance and balanced performance properties.</i>							
MOBILITH SHC 007	460		00	Lithium Complex	N/A		DIN 51826: GPHC00K-30	
	<i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.</i>							
MOBILITH SHC 100	100		1,5	Lithium Complex	246 min		DIN 51825: KPHC2N-40	
	<i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.</i>							
MOBILITH SHC 220	220		1,5	Lithium Complex	246 min		DIN 51825: KPHC2N-40	
	<i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.</i>							
MOBILITH SHC 460	460		1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
	<i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.</i>							
MOBILITH SHC 1000 SPECIAL	1000		2	Lithium Complex	246 min		DIN 51825: KPFHC2N-30	
	<i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications. Contains molybdenum disulphide and graphite.</i>							
MOBILITH SHC 1500	NLGI 1		1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-30	
	<i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.</i>							
MOBILTEMP SHC 100	100		2	Clay	260 min			
	<i>Fully synthetic anti-wear grease for high temperature applications. Excellent resistance to thermal/oxidative degradation with excellent structural stability at high temperature. Long service life for extended relubrication periods and energy savings potential.</i>							
MOBILTEMP SHC 460 SPECIAL	460		1	Clay	260 min			
	<i>Fully synthetic anti-wear greases for high temperature applications. Excellent resistance to thermal/oxidative degradation with excellent structural stability at high temperature. Long service life for extended relubrication periods and energy savings potential. Contains molybdenum disulphide.</i>							
MOBIL POLYREX EM		95 min	2	Polyurea	250 min			
	<i>Super performance polyurea thickened grease. Recommended for electric motor bearings and sealed-for-life bearings. Higher temperature operations with optimal oil separation. Also for low noise sensitive environments.</i>							
MOBIL POLYREX EM 103		95 min	3	Polyurea	250 min			
	<i>Super performance polyurea thickened grease. Recommended for electric motor bearings and sealed-for-life bearings. Higher temperature operations with optimal oil separation. Also for low noise sensitive environments.</i>							



Brand name	ISO VG	Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
						Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBILGREASE XHP 222	220		1,5	Lithium Complex	246 min			
	<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination, high loads and shock loading.</i>							
MOBILGREASE XHP 322 SPECIAL	320		2	Lithium Complex	280			
	<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination. Contains MoS2 for high shock loads.</i>							
MOBILGREASE XHP 461	460		1	Lithium Complex	260 min			
	<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination, high loads and shock loading.</i>							
UNIREX N 2		95 min	2	Lithium Complex	205 min		K2N-20L	
	<i>Premium quality long-life lithium complex grease suitable for high temperature service in all types of bearings. Versatile product profile with applications in a wide range of industries but most particularly for electric motors and sealed-for-life bearings.</i>							
UNIREX N 3		95 min	3	Lithium Complex	205 min		K3N-20L	
	<i>Premium quality long-life lithium complex grease suitable for high temperature service in all types of bearings. Versatile product profile with applications in a wide range of industries but most particularly for electric motors and sealed-for-life bearings.</i>							
UNIREX EP 2	220		2	Lithium Complex	260 min			
	<i>Premium quality lithium complex thickened mineral oil based grease. Excellent multipurpose grease, particularly where there may be water contamination and/or heavy duty in service. Suitable for plain and anti-friction bearings in a wide variety of industrial and automotive applications.</i>							
MOBILTEMP 1	460		1	Clay	260 min			
	<i>High performance clay thickened grease. Used for plain and anti-friction bearings operating at low speed and high temperature. Low volatility and excellent resistance to oxidation and water washout and good anti-wear performance.</i>							
MOBILTEMP 78	460		1	Clay	260 min			
	<i>High performance clay thickened grease. Used for plain and anti-friction bearings operating at low speed and high temperature. Low volatility and excellent resistance to oxidation and water washout and good anti-wear performance. It contains molybdenum disulphide.</i>							
MOBILUX EP 004	150		00	Lithium	N/A	SEW under approval phase		
	<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>							
MOBILUX EP 0	150		0	Lithium	180 min			
	<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>							
MOBILUX EP 1	150		1	Lithium	180 min			
	<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>							
MOBILUX EP 2	150		2	Lithium	180 min			
	<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>							
MOBILUX EP 3	150		3	Lithium	180 min			
	<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>							



Brand name	ISO VG	Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
						Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBIL SHC GREASE 460 WT	460		1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
	<i>Supreme performance product 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>							
MOBIL CENTAUR XHP 221	220		1	Calcium Sulfonate	318			
	<i>High performance grease for lubrication of rolling element bearings in high temperatures and water saturated environments.</i>							
MOBIL CENTAUR XHP 461	460		1	Calcium Sulfonate	275			
	<i>High performance grease for heavily loaded and water saturated applications in steel and paper mill applications.</i>							
MOBILGREASE XTC	680		1	Lythium Polymer	215		AGMA CG-1 AGMA CG-2	
	<i>High performance grease for lubrication of high speed flexible couplings and joints.</i>							
MOBILGREASE SPECIAL	150		2	Lithium	180 min			
	<i>Extreme pressure lithium thickened grease. Contains molybdenum disulphide to give extra protection in heavily loaded bearings. Wheel bearings and chassis components in automotive and industrial equipment, passenger cars, trucks, farm tractors, construction and mobile equipment.</i>							
MOBIL CHASSIS GREASE LBZ			00	Lithium/ Calcium	160	MB 264 MAN 283 Li-P 00/ 000	DIN51826: GP00G-50	
	<i>Semi-fluid grease, designed for the central lubrication systems of commercial vehicles. Excellent flow properties at low temperatures in long pipelines. MB pg 264. Willy Vogel.</i>							



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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>Mobisol PM is a 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	0.930	-46	270			
<i>Fully synthetic chain oil for lubrication of heavily loaded chains. Especially suitable for hot applications in ovens and kilns.</i>										

Marine Lubricants

Marine Engine Oils	44
Marine Engine Oils (zinc-free)	45
Marine Cylinder Oils	46
Mobil Stern Tube Lubricant	47





Brand name	SAE Grade	Kinematic Viscosity mm ² /s or cSt		Viscosity Index	Density at 15°C g/cm ³	Pour Point °C	TBN	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			API CF
	<p><i>Mobilgard 312 is a high performance diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. It is formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. It has superior water separating properties and provide excellent corrosion protection.</i></p>									
MOBILGARD 412	40	142	14,5	100	0,899	-9	15			API CF
	<p><i>Mobilgard 312 is a high performance diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. It is formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. It has superior water separating properties and provide excellent corrosion protection.</i></p>									
MOBILGARD ADL 30	30	108	12	100	0,9	-12	15			API CF
	<p><i>Mobilgard ADL Series by ExxonMobil is a high performance family of increased dispersancy engine oils for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. These advanced diesel lubricants are available in both SAE 30 and 40 grades to suit most marine engine viscosity requirements. As a result of a special balance of detergent and dispersant properties these oils provide not only increased resistance to cylinder liner lacquer formation in severe service applications, but also assist in sludge and deposit removal. Use of Mobilgard ADL Series oils avoids high oil consumption associated with cylinder liner lacquering, improves overall engine cleanliness and can increase time between engine overhauls. Superior load carrying properties minimise piston ring and liner wear, and also make Mobilgard ADL Series lubricants suitable for marine gearing applications.</i></p>									
MOBILGARD ADL 40	40	141	14,5	101	0,901	-9	15			API CF
	<p><i>Mobilgard ADL Series by ExxonMobil is a high performance family of increased dispersancy engine oils for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. These advanced diesel lubricants are available in both SAE 30 and 40 grades to suit most marine engine viscosity requirements. As a result of a special balance of detergent and dispersant properties these oils provide not only increased resistance to cylinder liner lacquer formation in severe service applications, but also assist in sludge and deposit removal. Use of Mobilgard ADL Series oils avoids high oil consumption associated with cylinder liner lacquering, improves overall engine cleanliness and can increase time between engine overhauls. Superior load carrying properties minimise piston ring and liner wear, and also make Mobilgard ADL Series lubricants suitable for marine gearing applications.</i></p>									
MOBILGARD M330	30	112	12		0,907	-6	30		API CF	
	<p><i>Mobilgard M30 Series (M330 and M430) are premium, extra high performance 30 TBN engine oils designed for use in the most severe residual-fueled, medium-speed diesel engines used in marine and stationary power applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. They provide excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection.</i></p>									
MOBILGARD M430	40	143	14		0,907	-6	30		API CF	
	<p><i>Mobilgard M30 Series (M330 and M430) are premium, extra high performance 30 TBN engine oils designed for use in the most severe residual-fueled, medium-speed diesel engines used in marine and stationary power applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. They provide excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection. Mobilgard L540 was specially formulated for use in applications with fuel sulphur levels ranging from less than 0.3% up to 1.5%.</i></p>									
MOBILGARD M440	40	143	14		0,915	-6	40		API CF	
	<p><i>Mobilgard M40 Series oils are designed to meet the needs of engines operating on heavy fuel. They are recommended for use in the latest model medium speed diesel engines and are especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Relatively high alkalinity reserves in these oils provide superior protection in neutralising the strong acids resulting from the use of high sulphur fuels that find access to the crankcase to promote oil degradation and ring, cylinder, and bearing corrosion.</i></p>									
MOBILGARD M50	40	142	14		0,922	-6	50		API CF	
	<p><i>Mobilgard M50 is especially recommended for use in the latest medium-speed engines designed with "flame-ring" cylinder liners operating on high sulphur fuels. It is recommended for use in main propulsion and auxiliary engines on deep-sea vessels; in main propulsion engines on coastal and river ships; and in stationary power plants.</i></p>									
MOBILGARD 300	30	111	12	97	0,889	-12	5			
	<p><i>Mobilgard 300 is recommended primarily for use as system oil in late model, high-output, crosshead diesel engines, especially those engines employing the system oil for piston cooling. It will prevent or reduce deposit formation in the piston cooling spaces, thus maintaining piston cooling efficiency and reducing the incidence of piston top burning and piston crown cracking. It will also prevent or reduce crankcase deposits and will provide outstanding protection for heavily loaded bearings. Its reserve alkalinity allows for the burning of high sulphur fuel. Good rust prevention and water separation characteristics make Mobilgard 300 an excellent system oil in older design crosshead diesel engines which have water-cooled pistons and where crankcase deposits can be a problem with lower-quality system oils.</i></p>									



Brand name	SAE Grade	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBILGARD 1 SHC	40	109	14,5	136	0,872	-54	15	MTU TYPE 2	API CF, CF-2 MTU Type II (extended drain up to 1500 hours in fast ferries) FZG Stage 12	API CF / CF-2
	<p><i>Mobilgard 1 SHC is recommended for use as a crankcase lubricant in medium and high speed diesel engines in severe marine service. It is especially suited to the needs of high power concentration engines where thermal stress and loading on the lubricant are severe, as well as for applications involving low-temperature and /or frequent start-up, rapid loading following rapid start-up, and abrupt shutdown after high speed operations.</i></p>									
MOBILGARD 450NC	40	139	14,1	98	0,897	-6	13			API CF / CF-2 EMD, EMD DD6V92 TA test, LMOA Generation 4 lubricant.
	<p><i>Mobilgard 450 NC (No Chlorine) engine oil has been specifically formulated to meet requirements of heavily loaded diesel engines manufactured by EMD and used in marine applications. It is suitable for other marine diesel engines of the highest horsepower, or higher brake mean effective pressure (BMEP) using distillate fuels with a sulfur content up to 1.5 percent. It will lubricate such engines in drilling rigs and stationary power generation service as well. Mobilgard 450 NC has been approved by EMD and is recommended for diesel engines manufactured by Alco, Detroit Diesel (API CF-2) and Fairbanks Morse.</i></p>									



Brand name	SAE Grade	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBILGARD 570	50	229	21	104	0,937	-9	70			
<p><i>Mobilgard 570 has been developed for marine crosshead engines designed for increased power and fuel efficiency. Such engines exhibit higher temperatures and pressures in the cylinder, which reduce the lubricant's viscosity and increase the loads which it must withstand. Longer piston strokes have greatly increased the amount of surface to be protected and the amount of time the lubricant must withstand the severe cylinder temperatures and corrosive sulphur acids.</i></p>										
MOBILGARD L540	50	236	21	105	0,917	-6	40			
<p><i>Mobilgard L540 has been developed for marine crosshead engines with increased power and fuel efficiency. Such engines exhibit higher temperatures and pressures in the cylinder, which reduce the lubricant's viscosity and increase the loads which it must withstand. Longer piston strokes have greatly increased the amount of surface to be protected and the amount of time the lubricant must withstand the severe cylinder temperatures and corrosive sulphur acids. Mobilgard L540 has also demonstrated superior performance in earlier engine designs.</i></p>										



Brand name	SAE Grade	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
MOBIL STERN TUBE LUBRICANT		385	24	82	0,915	10				
<p><i>Mobil Stern Tube Lubricant is a high-performance, high viscosity lubricant developed especially for the lubrication of Cedervall-type stern tube bearings used in ships and for certain bearings of ships' fin stabilizers. Mobil Stern Tube Lubricant is formulated from relatively high Viscosity Index (VI) base oils combined with emulsifiers, structure modifiers, surface active agents and corrosion preventives. It emulsifies readily with seawater to form a stable water-in-oil emulsion that is adhesive and an excellent lubricant. It provides effective rust protection in the presence of seawater and the lubricating film is resistant to water washing so that corrosion protection is maintained for extended periods under severe operating conditions.</i></p>										

Aviation Lubricants

Jet Engine Oil	50
Hydraulic Oil	51
Aviation Grease	52





Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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		
	<p><i>Mobil Jet Oil II is a 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></p>									
MOBIL JET OIL 254		26,4	5,3		1,0044	-62	254	MIL-PRF-23699F-HTS		
	<p><i>Mobil Jet Oil 254 is a 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></p>									
MOBIL TURBO 319-A2		16,2	3,7		0,852	-60	234	IPM-10,VNIINP 50-1-4f and -4u, 36/1 Ku-A, MS-8P, MS-8RK		
	<p><i>Mobil Turbo 319A-2 is a fully synthetic lubricant developed to meet the performance requirements of Russian gas turbine aircraft engines which operate on mineral-oil-based lubricants. The product has superior thermal and oxidation stability than mineral-oil-based lubricants. The ability of Mobil Turbo 319A-2 to resist deterioration and deposit formation allows the potential for extended oil drain intervals and less frequent maintenance.</i></p>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm³</i>	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
HYJET IVA-PLUS		37.8 (at 37.8 C)	3.57 (at 98.9 C)	320	1,001	-62	174	SAE AS1241C, NSA 307110M, C-34-1224C, 1159SCH302D, BMS 3-11M, DMS 2014G, BAC.M.333C, BAMS 564-003		
	<p><i>Exxon HyJet IV-Aplus is a superior quality, fire-resistant phosphate ester hydraulic fluid designed for use in commercial aircraft. This product is an advanced Type IV fluid and offers many of the performance capabilities of Type V fluids, including high temperature stability, low density, and rust protection.</i></p>									
MOBIL AERO HFA		13.9	5.1	370	0,882	-66	108 (COC method)	MIL-H-5606A		
	<p><i>Mobil Aero HFA, HF, and HFS are formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. They are low viscosity products, high VI fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.</i></p>									
MOBIL AERO HF		13.8	5.1	370	0,881	-66	90 (PMCC method)	MIL-PRF-5606H, NATO Code H-515		
	<p><i>Mobil Aero HFA, HF, and HFS are formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. They are low viscosity products, high VI fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.</i></p>									



Brand name	ISO VG	Kinematic Viscosity <i>mm²/s or cSt</i>		NLGI Grade	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 28		29,3	9,2	1-2	Lithium Complex	315	MIL-PRF-81322G, NATO G-395, JSD XG-293, DOD-G-24508A Am 4		
	<p><i>Mobilgrease 28 is a 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. It 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></p>								
MOBIL AVIATION GREASE SHC 100		100	14,5	2	Lithium Complex	278	All Major Aircraft Wheel Builder Approvals		
	<p><i>Mobil Aviation Grease SHC 100 is a supreme performance synthetic grease which combines the unique features of a polyalphaolefin (PAO) synthetic base fluid with those of a high quality lithium complex soap thickener. The thickener system provides a high dropping point, excellent resistance to water wash, and a tenacious structural stability.</i></p>								
MOBILGREASE 33		12,5	3,2	1-2	Lithium Complex	205		BMS 3-33B, MIL-PRF-23827C, Am 1, Type I	
	<p><i>High performance synthetic multipurpose grease; all applications for which the aircraft manufacturer specifies MIL-PRF-23827 and/or BMS 3-33 greases. This grease's unique polyalphaolefin (PAO) synthetic base oil is not susceptible to the effects of hydrolysis that can occur with greases formulated with ester base oils. Mobilgrease 33 PAO base oil, lithium complex thickener, and robust additive system provides outstanding low temperature and wear performance.</i></p>								

Useful Information

ISO Viscosity Classification System 54



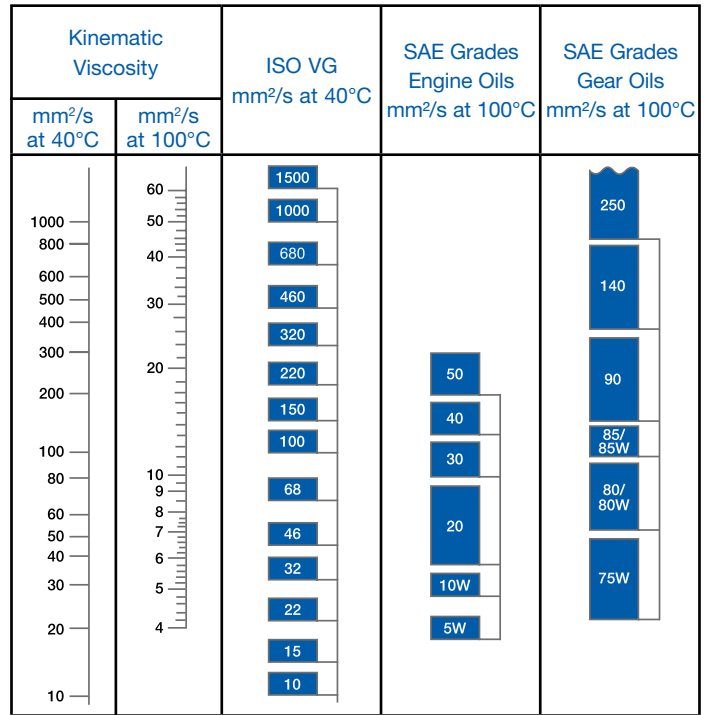


ISO Viscosity Classification System

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	9,00-11,00	6,8
ISO VG 10	16,5-16,5	10
ISO VG 15	19,8-2,42	15
ISO VG 22	28,8-35,2	22
ISO VG 32	41,4-50,6	32
ISO VG 46	61,2-74,8	46
ISO VG 68	90,0-110	68
ISO VG 100	135-165	100
ISO VG 150	198-242	150
ISO VG 220	288-352	220
ISO VG 320	414-506	320
ISO VG 460	414-506	460
ISO VG 680	612-748	680
ISO VG 1000	900-1000	1000
ISO VG 1500	1350-1650	1500

Viscosity Classification Equivalents



Grease Consistency (NLGI)

Grade NLGI	Penetration 0,1 mm 25°C (after 60-stroke worked)
000	445-475
00	400-300
0	355-385
1	310-340
2	265-295
3	220-250



Notes

A series of horizontal dotted lines for writing notes.

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