







Mobil^M product summary industrial lubricants ()



Performance by **E**xonMobil





Foreword

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

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

Mobil products are

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

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

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

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

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

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







Some products may not be available in your region.

Visit the local distributor website or contact them for details.

Arabian Petroleum Supply Company | Industrial Area Phase 5 , P.O.Box 1408 Jeddah 21431 ExxonMobil Strategic Alliance.

T: +966 126081171 **Fax:** +966 126370966

Apsco Lubes Sales < lubesales@apsco-ksa.com>

Apsco Industrial Lube Sales < industriallubesales@apsco-ksa.com >

www.apsco.com.sa/en/





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Nuto H 32	
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Prosol 44 W	
Prosol NT70	
Somentor 44	4
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Wyrol 8	
Wyrol 10	
Wyrol 12	4
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Brand name	ISO VG	Kinematic Viscosity mm²/s		Visco-	Density at	Pour- point	Flash Point	Specifications			
		40°C	100°C	Index	15°C g/cm³	°C	°℃	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil SHC 824	32	31.5	5.9	135	0.83	-54	248	Siemens TLV 9013 04 & 05 Alstom HTGD 90117 MHI MS04-MA-CL003	Solar ES9-224 Class I GE GEK 32568G	GE GEK 101941A GE GEK 28143B	
	Synthetic high-performance turbine oil for land-based gas turbines. Offers outstanding high thermal and oxidative stability and deposit control as well as excellent low temperature fluidity. Naturally high Viscosity Index, excellent antiwear performance.										
Mobil SHC 825	46	43.9	7.9	145	0.83	-45	248	Siemens TLV 9013 04 & 05 Alstom HTGD 90117	Solar ES9-224 Class I		
	Synthe deposit	tic high-p t control a	erformar as well as	nce turbin excellent	e oil for la low temp	and-base perature :	d gas turi fluidity. N	bines. Offers outstanding aturally high Viscosity Inc	n high thermal and oxidat dex, excellent antiwear pe	ive stability and erformance.	
Mobil DTE 932 GT	32	31.5	6.1	141	0.84	-18	240		GE GEK 32568G	GE GEK 101941A GE GEK 28143 B	
	Long o require	Next generation high-performance turbine oil designed for use in large frame turbines under severe operating conditions. Long oil life in combination with industry leading "keep clean" performance. Non-zinc antiwear system to meet the load carrying requirements of geared turbines (FZG = 10). Specifically formulated for General Electric Frame 3, 5, 6, 7 and 9 turbines with common bearing and hydraulic oil reservoir, where varnish control is most needed.									
Mobil DTE 832	32	29.6	5.4	110	0.86	-30	224	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery: MAT 812101 MAT 812106 MAT 812108 GE GEK 28143A GE GEK 32568E GE GEK 32568G GE GEK 101941A GE GEK 107395a GE GEK 10560D Siemens Westinghouse PD-5512523 Solar ES 9-224, Class II JIS K-2213 Type 2 with additives (2006) DIN 51515-1: 2010-02 DIN 51515-2: 2010-02	GE GEK 28143B, GE GEK 32568C	
								nines and combined gas t ared turbines (FZG = 9). I			
Mobil DTE 846	46	42.4	6.2	106	0.87	-30	244	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery: MAT 812102 MAT 812107 MAT 812109 Solar ES 9-224, Class II JIS K-2213 Type 2 w/Addtives, 2006 DIN 51515-1: 2010-02 DIN 51515-2: 2010-02	GE GEK 28143A	
								oines and combined gas t ared turbines (FZG = 9). I			







Turbine and Circulation Oils



Brand name	ISO VG	Kinematic Viscosity mm²/s		Visco- sity	Density at	Pour- point	Flash Point	Specifications			
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil DTE 732	32	30	5.5	117	0.85	-30	228	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117 LMZ letter No 510- 019/108n	Siemens Industrial Turbo Machinery: MAT 812101 Siemens Westinghouse PD-55125Z3 GE GEK 27070 GE GEK 28143A GE GEK 32568G GE GEK 46506D JIS K-2213 Type 2 with additives DIN 51515-1: 2010-02 DIN 51515-2: 2010-02 ASTM 4304 Rev A Type I ASTM 4304 Rev A Type III China National Std GB 11120-89 L-TSA	ISO 8068 L-TGB 2006 ISO 8068 L-TGSB 2006	
								lesigned for use in gas ar ding thermal and oxidati	nd steam turbine applicati on stability.	ons.	
Mobil DTE 746	46	44	6.8	113	0.86	-30	230	Siemens TLV 9013 04 Siemens TLV 9013 05 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery: MAT 812102 GE GEK 28143A JIS K-2213 Type 2 with additives DIN 51515-1: 2010-02 DIN 51515-2: 2010-02 ASTM 4304 Rev A Type I ASTM 4304 Rev A Type III China National Std GB 11120-89 L-TSA	ISO 8068 L-TGB 2006 ISO 8068 L-TGSB 2006	
								lesigned for use in gas ar ding thermal and oxidati	nd steam turbine applicati on stability.	ons.	
Mobil DTE 732 M	32	31.3	5.8	131		-15	233	MS04-MA-CL001 MS04-MA-CL002 MS04-MA-CL005	JIS K-2213 Typ 2 (2006)		
	Heavy- ne app	duty Gas lications,	& Steam MS04-M	Turbines A-CL005	and Mult	i Shaft Ga high-qua	as Turbine	es. Meets MHI's requirem	lustry (MHI) non-geared S nents for long life – high to designed to provide long	emperature turbi-	
Mobil DTE Oil Light	32	31	5.5	102	0.85	-18	218		DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 JIS K-2213 Typ 2 mit Additiven (1983)	GE GEK 270270 GE GEK 28143A GE GEK 46506D	
					oil for ste d rapid se				ous lubrication of plain ar	nd antifriction	
Mobil DTE Oil Medium	46	44.5	6.9	98	0.86	-15	221		DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 JIS K-2214 Type 2 with addtives (1983)	GE GEK 28143A	
					oil for ste d rapid se				ous lubrication of plain ar	nd antifriction	











Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity Index	Density at 15°C	Pour- point °C	Flash Point °C	Specifications Mosts as exceeds Recommended by			
		40°C	100°C	IIIdex	g/cm³			Approved	Meets or exceeds requirements of	ExxonMobil for use in applications requiring	
Mobil DTE Oil Heavy Medium	68	65.1	8.7	95	0.87	-15	223	ABB Turbo HZTL 90617 ABB Turbo HZTL 90572	DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 JIS K-2214 Type 2 with addtives (1983)	ABB Turbo HZTL 90617 ABB Turbo HZTL 90572	
					oil for ste d rapid se				ous lubrication of plain ar	nd antifriction	
Mobil DTE Oil Heavy	100	95.1	10.9	92	0.88	-15	237		DIN 51515-1: 2010-02 DIN 51517-2: 2009-06 DIN 51524-1: 2006-09		
					oil for ste d rapid se				ous lubrication of plain ar	nd antifriction	
Teresstic T 32	32	32	5.4	100	0.86	-30	222	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101 China National Standard GB 11120-89 L-TSA GE GEK 46506D DIN 51515-1: 2010-02 JIS K-2213 Type 2 with additives (2006)	GE GEK 270270 GE GEK 28143A	
					n system n and hydi			team and light duty static	onary gas turbines.		
Teresstic T 46	46	46	6.8	100	0.87	-30	218	Siemens TLV 9013 04, Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102 China National Standard GB 11120-89 L-TSA DIN 51515-1: 2010-02 JIS K-2213 Type 2 with additives (2006)	GE GEK 28143A	
					n system n and hydi			team and light duty statio	onary gas turbines.		
Teresstic T 68	68	68	8.5	95	0.87	-30	220		China National Standard GB 11120-89 L-TSA DIN 51515-1: 2010-02 JIS K-2213 Type 2 with additives (2006)		
					n system			team and light duty static	onary gas turbines.		











Brand name	ISO VG	Visc	Kinematic Viscosity mm²/s		Viscosity		Viscosity		Viscosity		Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring						
Mobil SHC 624	32	32	6.3	148	0.85	-57	236	SEW Eurodrive: SEW IG CLP HC 32, SEW SG CLP HC 32	AGMA 9005 EO2_EP ISO 12925-1 CKB							
energy								and cold conditions. Exce d in heavily loaded plain a	ellent thermal and oxidation and antifriction bearings.	on stability						
Mobil SHC 626 * energy attitioners	68	68	11.6	165	0.86	-51	225	SEW Eurodrive: SEW IG CLP HC 68, SEW SG CLP HC 68 Fives Cincinnati P-63 & P-80	AGMA 9005 EO2-EP ISO 12925-1 CKD							
-0								and cold conditions. Exce heavily loaded plain and	ellent thermal and oxidation antifriction bearings.	on stability for						
Mobil SHC 627	100	100	15.3	162	0.86	-45	235	Fives Cincinant P-76	AGMA 9005 E02 -EP DIN 51517-3 CLP, ISO 12925-1 CKD							
energy								and cold conditions. Exce d in heavily loaded plain a	ellent thermal and oxidation and antifriction bearings.	on stability						
Mobil SHC 629 * eriergy erificiency	150	150	21.1	166	0.86	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A36. SEW Eurodrive: SEW IG CLP HC 150 & SEW SG CLP HC 150 Fives Cincinant P-77	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD							
								and cold conditions. Exce d in heavily loaded plain a	ellent thermal and oxidation and antifriction bearings.	on stability						
Mobil SHC 630 * errery erriciency	220	220	28.5	169	0.87	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A35. DESCH ZG 30 gear unit SEW Eurodrive: SEW IG CLP HC 220 & SEW SG CLP HC 220.	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD							
								and cold conditions. Exce d in heavily loaded plain a	ellent thermal and oxidation and antifriction bearings.	on stability						
Mobil SHC 632	320	320	38.5	172	0.87	-42	225	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A34. SEW Eurodrive: SEW IG CLP HC 320.	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD							
efficiency								and cold conditions. Exce d in heavily loaded plain a	ellent thermal and oxidation and antifriction bearings.	on stability						









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Circulation Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC 634 * errergy erriciancy*	460	460	50.7	174	0.87	-39	228	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A33. SEW Eurodrive: SEW IG CLP HC 460 & SEW SG CLP HC 460 GE Transportation Traction Motor GED50E32 AC	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
								and cold conditions. Exce d in heavily loaded plain a	llent thermal and oxidation and antifriction bearings.	on stability
Mobil SHC 636	680	680	69	181	0.87	-39	225	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A32. SEW Eurodrive: SEW IG CLP HC 680. Fives Cincinnati P-34	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1:1996 CKD	
								and cold conditions. Exce d in heavily loaded plain a	llent thermal and oxidation and antifriction bearings.	on stability
Mobil SHC 639	1000	1000	98.8	184	0.87	-33	222	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A31. SEW Eurodrive: SEW IG CLP HC 1000, Fives Cincinnati P-78	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1:1996 CKD	
								and cold conditions. Exce d in heavily loaded plain a	llent thermal and oxidation and antifriction bearings.	on stability
Mobil Vacuoline 128	150	150	14.8	96	0.89	-9	280		SMS SIEMAG- MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG MORGOIL- Lubricant Spec Std Lubricant SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
		igh-qualit goil rolling					plain bea	rings, operating with hea	avy water contamination.	Suitable for use
Mobil Vacuoline 133	220	220	18.8	95	0.89	-6	288		SMS SIEMAG- MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG MORGOIL- Lubricant Spec Std Lubricant SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
		igh-qualit goil rolling					plain bea	rings, operating with hea	avy water contamination.	Suitable for use







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Brand name	ISO VG	Visc	matic osity n²/s	Visco-	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Vacuoline 137	320	320	23.9	95	0.9	-9	286		SMS SIEMAG- MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG MORGOIL- Lubricant Spec Std Lubricant SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
		nigh-qualit goil rolling					plain bea	rings, operating with hea	avy water contamination.	Suitable for use
Mobil Vacuoline 146	460	460	30.1	95	0.9	-6	296		SMS SIEMAG- MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 3: 2009-07, DIN 51517-2: 2009-06	
		nigh-qualit goil rolling					plain bea	rings, operating with hea	avy water contamination.	Suitable for use
Mobil Vacuoline 148	680	680	36.7	91	0.91	-6	318		SMS SIEMAG- MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 4: 2009-07, SMS SIEMAG-MORGOIL Lubricant Specification Advanced Lubricant, SN 180 Part 3: 2009-07	
		nigh-qualit goil rolling					plain bea	rings, operating with hea	avy water contamination.	Suitable for use
Mobil Vacuoline 525		89	10.7	99	0.88	-24	264	DANIELI Type 21-0.002117.R BGV No Twist Stand Block-TMB/ TFS Rev 14	MORGOIL "No twist rod mill" Lubricants Specifi- cation	
	Meets		al requirer	ments of				l tiwear properties requiri an and Danielli. Has exce	l ng of FZG up to 12 fail loa Illent water demulsibility.	l ad stage.
Mobil Vacuoline 528	150	146	14.4	96	0.89	-21	272			
		nigh-perfo cellent wa							ng of FZG up to 12 fail loa	ad stage.
Mobil Vacuoline 533	220	215	18.8	96	0.89	-15	284			
		igh-perfo cellent wa							ng of FZG up to 12 fail lo	ad stage.
Mobil Vacuoline 537	320	309	24.4	96	0.89	-12	288			
		igh-perfo cellent wa							ng of FZG up to 12 fail loa	ad stage.
Mobil Vacuoline 546	460	453	29.4	95	0.9	-12	286			
		nigh-perfo cellent wa							ng of FZG up to 12 fail loa	ad stage.











Industrial Gear Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°€	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Gear 150	150	150	22.2	176	0.86	-54	233	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A36, SEW Eurodrive SEW IG CLP HC 150	AGMA 9005-E02-EP, DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD, ISO 12925-1 Typ CKT	
efficiency	extrem high lev	e conditic	ons. Desig stance ag	ned to pi	ovide exc	ellent pro	tection a	o provide optimum equipr gainst conventional wear nded for enclosed industr	modes such as scuffing l	out also provides
Mobil SHC Gear 220	220	220	30.4	180	0.86	-45	233	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A35, SEW Eurodrive SEW IG CLP HC 220	AGMA 9005-E02 -EP DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD, ISO 12925-1 Typ CKT	
efficiency	extrem high lev	e conditic	ons. Desig stance ag	ned to pi	ovide exc	ellent pro	otection a	o provide optimum equipr gainst conventional wear nded for enclosed industr	modes such as scuffing l	out also provides
Mobil SHC Gear 320	320	320	40.6	181	0.86	-48	233	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A34, SEW Eurodrive SEW IG CLP HC 320	AGMA 9005-E02 - EP DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
energy efficiency	extrem high lev	e conditic	ons. Desig stance ag	ned to pi	ovide exc	ellent pro	tection a	o provide optimum equipr gainst conventional wear nded for enclosed industr	modes such as scuffing l	out also provides
Mobil SHC Gear 460	460	460	54.1	184	0.86	-48	234	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A33, SEW Eurodrive SEW IG CLP HC 460	AGMA 9005-E02 EP DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
energy	extrem high lev	e conditic	ons. Desig stance ag	ned to pi	ovide exc	ellent pro	otection a	o provide optimum equipr gainst conventional wear nded for enclosed industr	modes such as scuffing l	out also provides
Mobil SHC Gear 680	680	680	75.5	192	0.86	-42	234	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A32, SEW Eurodrive SEW IG CLP HC 680	AGMA 9005-E02-EP DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
energy	extrem high lev	e conditic	ons. Desig stance ag	ned to pi	ovide exc	ellent pro	otection a	o provide optimum equipr gainst conventional wear nded for enclosed industr	modes such as scuffing l	out also provides a
Mobil SHC Gear 3200		3200	183	165	0.89	-9	230		General Electric Transportation GED50E25C Traction Motor	
		gh viscosi gs. Does r				tic lubrica	nt for lov	v speed, enclosed industr	rial gears and plain and ar	ntifriction
Mobil SHC Gear 6800		8200	365	180	0.9	-6	230		General Electric Transportation GED50E25B DC Traction Motor	
		gh viscosi gs. Does r				tic lubrica	nt for lov	v speed, enclosed industr	rial gears and plain and ar	ntifriction

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Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Gear 22M		22000	700	180	0.89	6	240			
		gh viscos olvent fre		heavy-dı	ity synthe	tic lubrica	ent for lo	w speed, enclosed industi	rial gears and plain and a	ntifriction bea-
Mobilgear XMP 150	150	150	14.6	96	0.9	-24	258	Hansen	ISO L-CKC, (ISO 12925-1, 1996)	
					gear oil fo ies subjec			ons. Recommended for h	eavily loaded gearboxes (with
Mobilgear XMP 220	220	220	18.8	96	0.9	-24	272	Hansen Jahnel-Kestermann	AGMA 9005-EO2 EP, ISO L-CKC, (ISO 12925-1, 1996)	
	Extra h	igh-perfo -hardene	rmance ii ed tooth n	ndustrial netallurg	gear oil fo ies subjec	or extrem t to micro	e condition pitting.	ons. Recommended for h	eavily loaded gearboxes v	with
Mobilgear XMP 320	320	320	24.1	96	0.9	-18	268	Hansen Jahnel-Kestermann	AGMA 9005-EO2 EP, ISO L-CKC, (ISO 12925-1, 1996)	
					gear oil fo ies subjec			ons. Recommended for h	eavily loaded gearboxes v	with
Mobilgear XMP 460	460	460	30.6	96	0.91	-12	270	Hansen Jahnel-Kestermann	AGMA 9005-EO2 EP, ISO L-CKC, (ISO 12925-1, 1996)	
					gear oil fo ies subjec			ons. Recommended for h	eavily loaded gearboxes v	with
Mobilgear 600 XP 68	68	68	8.8	97	0.88	-27	230		AGMA 9005-E02 2 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 68	
								nessure characteristics and lubrication systems.	nd load-carrying properti	ies, intended for
Mobilgear 600 XP 100	100	100	11.2	97	0.88	-24	230	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A17, Müller- Weingarten DT 55 005 CLP 100 RENK B19828 300	AGMA 9005-E02 3 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 100	
								oressure characteristics and shall be supported to the state of the st	nd load-carrying properti	ies, intended for
Mobilgear 600 XP 150	150	150	14.7	97	0.89	-24	230	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A16, SIEMENS AG Flender gear units, T 7300, Table E-am, Flender Code No. E76, Müller- Weingarten DT 55 005 CLP 150 RENK B19828 400	AGMA 9005-E02 4 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 150	
								oressure characteristics a sh lubrication systems.	nd load-carrying properti	ies, intended for











Industrial Gear Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgear 600 XP 220	220	220	19	97	0.89	-18	240	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A15, Müller- Weingarten DT 55 005 CLP 220 RENK B19828 600	AGMA 9005-E02 5 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 220	
								oressure characteristics and hubrication systems.	nd load-carrying propert	ies, intended for
Mobilgear 600 XP 320	320	320	24.1	96	0.9	-15	240	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A14, Müller- Weingarten DT 55 005 CLP 320	AGMA 9005-E02 6 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKD 320	
								pressure characteristics and high lubrication systems.	nd load-carrying propert	ies, intended for
Mobilgear 600 XP 460	460	460	30.6	95	0.9	-15	240	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A13, Müller- Weingarten DT 55 005 CLP 460	AGMA 9005-E02 7 EP, DIN 51517-3: 2009-06, ISO 12925-1 Typ CKC 460	
								pressure characteristics and high lubrication systems.	nd load-carrying propert	ies, intended for
Mobilgear 600 XP 680	680	680	39.2	95	0.91	-9	285	SIEMENS AG Flender gear units, T 7300, Table A-a, Flender Code No. A12	DIN 51517-3: 2009-06, ISO 12925-1 Typ CKC 680	
	Extra h	igh-perfo all types o	rmance g f enclose	rear oil ha d gear dr	aving outs	standing (circulatio	extreme p n or splas	nessure characteristics a Sh lubrication systems.	nd load-carrying propert	ies, intended for
Mobil Glygoyle 11		85	11.5	125	1.01 (at 20°C)	-45	226			
	applica materia	tions. No	t miscible varieties	with mir of light m	neral oils. netal alloy:	Lubrican	t does ha	For use in extreme tempore limitations with respectives. Before applying, con	t to compatibility with se	eal and coating
Mobil Glygoyle 22		177	25.1	175	1.01 (at 20°C)	-41	229			
	applica materia	tions. No	t miscible varieties	with mir of light m	neral oils. netal alloy:	Lubrican	t does ha	For use in extreme tempore limitations with respectants. Before applying, con	t to compatibility with se	eal and coating
Mobil Glygoyle 30		224	30.9	180	1.01 (at 20°C)	-41	221			
	applica materia	tions. No	t miscible varieties	with mir of light m	neral oils. netal alloy:	Lubrican	t does ha	For use in extreme tempore limitations with respectives. Before applying, con	t to compatibility with se	eal and coating
Mobil Glygoyle 220	220	220	38.1	225	1.08	-33	265	NSF-H1-Registration Number 136642, Fives Cincinnati P-39	FDA 21 CFR 178.3570	
	and rus	t protecti	ion and fo or use wit	am resis	tance. Co	mpatible	with mos	l gear lubricant. Provide e st seals and gaskets, but i num or Magnesium. Plair	not with mineral oils. Lub	ricants are not









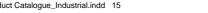
Industrial Gear Oils



Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications				
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring			
Mobil Glygoyle 320	320	320	55.2	240	1.08	-33							
	corrosi not rec	Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubrical not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.							al oils. Lubricant				
Mobil Glygoyle 460	460	460	77.2	250	1.08	-33	265	NSF-H1-Registration Number 136467, Fives Cincinnati P-39	136467,				
	Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubrica not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.								al oils. Lubricant				
Mobil Glygoyle 680	680	680	112.4	265	1.08	-33	265	NSF-H1-Registration Number 136468	FDA 21 CFR 178.3570				
	corrosi not rec	on and ru	st protec ed for use	tion and i	foam resis	stance. C	ompatible	orm gear lubricant. Provide excellent EP/anti-wear protection, atible with most seals and gaskets, but not with mineral oils. Lubric g Aluminum or Magnesium. Plain and antifriction bearings in wide					











Slideway Oils

Brand name	ISO VG	Kiner Visc	,	Visco- sity	Density at	Pour- point	Flash Point		Specifications			
		40°C	100°C	Index	15°C °C °C		°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring		
Mobil Vactra Oil No. 1	32	32				-30	216	Fives Cincinnati P-53				
		Premium-quality lubricant for the lubrication of horizontal slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.								k-slip		
Mobil Vactra Oil No. 2	68	68				-18	228	Fives Cincinnati P-47				
	1	m-quality nance and						eways of modern machin uids.	e tools. Outstanding stic	k-slip		
Mobil Vactra Oil No. 3	150	156				-6	248					
	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.								tanding stick-slip			
Mobil Vactra Oil No. 4	220	221				-3	240	Fives Cincinnati P-50				
		m-quality nance and						nd vertical slideways of modern machine tools. Outstanding stick-slip fluids.				











Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC 524	32	32	6.4	144	0.85	-56	234	Denison HF-0, Denison HF-1, Denison HF-2		
									ellent low and high temp f operating temperatures	
Mobil SHC 525	46	46	8.5	154	0.85	-54	238	Denison HF-0, Denison HF-1, Denison HF-2		
									ellent low and high temp f operating temperatures	
Mobil SHC 526	68	68	11.5	158	0.85	-53	240	Denison HF-0, Denison HF-1, Denison HF-2		
									ellent low and high temp f operating temperatures	
Mobil DTE 10 Excel 15	15	15.8	4.1	168	0.84	-54	182		DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV	
energy	industr	ial and m	obile equ	ipment h	ydraulic s	ystems. li	nnovative		meet the needs of moder vance protects critical hyc	
Mobil DTE 10 Excel 22	22	22.4	5.07	164	0.84	-54	224		DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV	
energy	and mo	bile equi	pment hy	draulic sy		novative	ultra keep		eds of modern, high press ects critical hydraulic syst	
Mobil DTE 10 Excel 32 * energy etilolongy	32	32.7	6.6	164	0.85	-54	250	Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S) Denison HF-2	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK, Bosch- Rexroth RE 90220-1	
Continues	and mo	bile equi	pment hy	draulic sy		novative	ultra keep		eds of modern, high press ects critical hydraulic syst	
Mobil DTE 10 Excel 46 * energy efficiency	46	45.6	8.5	164	0.85	-45	232	Arburg Hydraulic fluid Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S), Fives Cincinnati P-70	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK VG46W (JCMAS P 041:2004), Bosch- Rexroth RE 90220-1, Krauss-Maffei hydraulic Oil	
	industr	ial and m	obile equ	ipment h	ydraulic s	ystems. li	nnovative		meet the needs of moder ance protects critical hyd	

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





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Hydraulic Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	℃	℃	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil DTE 10 Excel 68 * energy efficiency*	68	68.4	11.2	156	0.86	-39	240	Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S), Fives Cincinnati P-69 STROMAG AG TM-000 327	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, Bosch-Rexroth RE 90220-1	
	and mo	bile equi	oment hy	draulic sy		novative	ultra keep		eds of modern, high press ects critical hydraulic syst	
Mobil DTE 10 Excel 100	100	99.8	13	127	0.88	-33	258		DIN 51524-2: 2006-09	
* energy efficiency	and mo	bile equi	oment hy	draulic sy		novative i	ultra keep		eds of modern, high press ects critical hydraulic syst	
Mobil DTE 10 Excel 150	150	156	17.2	120	0.88	-30	256	Ortlinghaus-Werke GmbH on 9.2.10	DIN 51524-2: 2006-09	
* energy	industr	ial and m	obile equ	ipment h	ydraulic s	ystems. Ir	nnovative		meet the needs of moder nance protects critical hyc	
Mobil DTE 22	22	21	4.5	98	0.86	-30	200		DIN 51524-2 2006-09	
									of high-quality base stoci ilterability even in the pre	
Mobil DTE 24	32	31.5	5.3	98	0.87	-27	220	Denison HF-0, Vickers I-286-S, Vickers M-2950-S Five Cincinnati P-68	DIN 51524-2 2006-09	
									of high-quality base stoci ilterability even in the pre	
Mobil DTE 25	46	44.2	6.7	98	0.88	-27	232	Denison HF-0, Vickers I-286-S, Vickers M-2950-S, Husky HS 207 Fives Cincinnati P-70	DIN 51524-2 2006-09	
									of high-quality base stoci ilterability even in the pre	
Mobil DTE 26	68	71.2	8.5	98	0.88	-21	236	Denison HF-0, Vickers I-286-S, Vickers M-2950-S Fives Cincinnati P-69	DIN 51524-2 2006-09	
									of high-quality base stoci ilterability even in the pre	
Mobil DTE 27	100	95.3	10.9	98	0.89	-21	248			
									of high-quality base stoci ilterability even in the pre	

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



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32	40°C	10000		at	Pour- point	Flash Point		Specifications	
32		100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
	31.1	6.2	152	0.94	-33	282	EU Eco Label Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-2, DENISON HF-6 USDA Certified BioBased Product	ISO ISO L-HEES, (ISO 15380, 2011), JCMAS HKB VG32L (JCMAS P042:2004), US EPA VGP:2013, WGK 1 - Low Hazard to Waters	
The fluid fluids ar	ds are de e excepti	signed to ionally hig	meet the gh quality	e demand v, wide-tei	for envir mperatur	onmenta e, shear-	stable hydraulic oils with	ıbricants. Mobil SHC Hyd controlled low-temperatı	Iraulic EAL ure pumpability
46	43.3	7.7	149	0.93	-33	298	EU Eco Label Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-2, DENISON HF-6 Eaton Corporation Brochure No. 03-401- 2010, Rev 1, USDA Certified BioBased Product	ISO ISO L-HEES, (ISO 15380, 2011), JCMAS HKB VG46L (JCMAS P042:2004), US EPA VGP:2013, WGK 1 - Low Hazard to Waters	
The fluid fluids ar	ds are de. e excepti	signed to ionally hig	meet the	e demand v, wide-tei	for envir	onmenta e, shear-	olly acceptable hydraulic lu stable hydraulic oils with	ubricants. Mobil SHC Hyd controlled low-temperatu	Iraulic EAL ure pumpability
68	71	11	144	0.92	-27	292	EU Eco Label Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-2, DENISON HF-6 Eaton Corporation Brochure No. 03-401- 2010, Rev 1, USDA Certified BioBased Product	ISO ISO L-HEES, (ISO 15380, 2011), US EPA VGP:2013, WGK 1 - Low Hazard to Waters	
The fluid fluids ar	ds are de e excepti	signed to ionally hig	meet the gh quality	e demand v, wide-tei	for envir mperatur	onmenta e, shear-	olly acceptable hydraulic lu stable hydraulic oils with	ıbricants. Mobil SHC Hyd controlled low-temperatu	Iraulic EAL ure pumpability
	13.5	5.3	404		-60	101			
11	25.8	9.3	376		-60	103		,	
change.	Applicat								
32	32	6.4	151	0.88	-48	208		DIN 51524-3 2006-9, ISO L-HV (ISO 11158, 1997)	Denison HF-0, Eaton I-286-S, Eaton M-2950-S
					antiwea	r hydraul	ic oil that exhibits high VI.	Can be used in a wide va	ariety of
46	46	8.2	152	0.88	-48	216		DIN 51524-3 2006-9, ISO L-HV (ISO 11158, 1997)	Denison HF-0, Eaton I-286-S, Eaton M-2950-S
	Mobil S The fluids and propert 46 Mobil S The fluids and propert 68 Zinc-condustria 22 Zinc-condustria 46	Mobil SHC™ Hyc The fluids are except properties and m Mobil SHC™ Hyc The fluids are de fluids are except properties and m Mobil SHC™ Hyc The fluids are de fluids are except properties and m 13.5 Zinc-containing properties and m 25.8 Zinc-containing properties and m 26.8 Zinc-containing properties and m 27.8 Zinc-containing properties and m 27.8 Zinc-containing properties and m 28.8 Zinc-containing properties and m 29.8 Zinc-containing properties and m 29.8 Zinc-containing properties and m 20.8 Zinc-c	Anobil SHCTM Hydraulic EAThe fluids are exceptionally high properties and maximised to the fluids are designed to fluids are exceptionally high properties and maximised to fluids are excepti	Available and maximised anti-wee Mobil SHC™ Hydraulic EAL fluids at the fluids are designed to meet the fluids are exceptionally high quality properties and maximised anti-wee Mobil SHC™ Hydraulic EAL fluids at the fluids are exceptionally high quality properties and maximised anti-wee Mobil SHC™ Hydraulic EAL fluids at the fluids are designed to meet the fluids are exceptionally high quality properties and maximised anti-wee 13.5 5.3 404 Zinc-containing premium-performations include severe hydraulic properties and maximised anti-wee than the fluids are exceptionally high quality properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and maximised anti-wee and polications include severe hydraulic properties and polications include severe hydraulic properties and polications include severe hydraulic	Aluids are exceptionally high quality, wide-tenderoperties and maximised anti-wear protects. Alia 43.3 7.7 149 0.93 Alobil SHC™ Hydraulic EAL fluids are high pure fine fluids are designed to meet the demand fluids are exceptionally high quality, wide-tenderoperties and maximised anti-wear protects. Alia 11 144 0.92 Alia 13.5 5.3 404 Alia 13.5 5.3 404 Cinc-containing premium-performance antiwer and protects and maximised anti-wear protects. Alia 13.5 5.3 404 Cinc-containing premium-performance antiwer and protects and maximised anti-wear protects. Alia 2 32 6.4 151 0.88 Cinc-containing premium-performance antiwer and protects. Cinc-containing premium-performance antiwer and protects and maximised anti-wear protects. Cinc-containing premium-performance antiwer and protects and maximised anti-wear protects. Cinc-containing premium-performance antiwer and protects and maximised anti-wear protects. Cinc-containing premium-performance anti-wear and protects. Cinc-containing premium-performance anti-wear ant	Aludis are exceptionally high quality, wide-temperature properties and maximised anti-wear protection for hyperties and maximised anti-wear protection for hyperties are designed to meet the demand for environmental properties and maximised anti-wear protection for hyperties and maximised anti-wear hydraulic systems used in hyperties and maximised an	Juids are exceptionally high quality, wide-temperature, shear-properties and maximised anti-wear protection for hydraulic state of the fluids are designed to meet the demand for environmental fluids are exceptionally high quality, wide-temperature, shear-properties and maximised anti-wear protection for hydraulic state of the fluids are designed to meet the demand for environmental fluids are exceptionally high quality, wide-temperature, shear-properties and maximised anti-wear protection for hydraulic state of the fluids are designed to meet the demand for environmental fluids are exceptionally high quality, wide-temperature, shear-properties and maximised anti-wear protection for hydraulic state of the fluids are exceptionally high quality, wide-temperature, shear-properties and maximised anti-wear protection for hydraulic state of the fluids are exceptionally high quality, wide-temperature, shear-properties and maximised anti-wear protection for hydraulic state of the fluids are exceptionally high quality systems used in hydrostatic state of the fluids are exceptionally high quality and the fluids are exceptionally high quality. 25.8 9.3 376 -60 103 27. 27. 292 292 292 293 203 204 205 205 205 205 205 205 205	Liuds are exceptionally high quality, wide-temperature, shear-stable hydraulic oils with properties and maximised anti-wear protection for hydraulic systems operating under land to the properties and maximised anti-wear protection for hydraulic systems operating under land land land land land land land land	Blue Angel (RAL-UZ 178) DENISON HF-1, DENISON HF-1, DENISON HF-1, DENISON HF-1 DENISON HF-1 DENISON HF-1 DENISON HF-6 Eaton Corporation Brochure No. 03-401- 2010, Rev 1, USDA Certified BioBased Product Waters ### Mobil SHC™ Hydraulic EAL fluids are high performance biodegradable synthetic hydraulic oils for modern hydra- the fluids are designed to meet the demand for environmentally acceptable hydraulic oils with controlled low-temperature, shear-stable hydraulic oils with controlled low-temperature properties and maximised anti-wear protection for hydraulic systems operating under high load and high pressure properties and maximised anti-wear protection for hydraulic systems operating under high load and high pressure protection for hydraulic systems operating under high load and high pressure product #### ### ### Mobil SHC™ Hydraulic SAL fluids are high performance biodegradable synthetic hydraulic oils for modern hydra- the fluids are designed to meet the demand for environmentally acceptable hydraulic oils with controlled low-temperature product #### ### ### ### ### ### ### ### ###

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











Hydraulic Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco-	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Univis N 68	68	68	11	151	0.88	-42	222		DIN 51524-3 2006-9, ISO L-HV (ISO 11158, 1997)	Denison HF-0, Eaton I-286-S, Eaton M-2950-S
		ontaining ial, mobile				e antiwea	r hydrauli	c oil that exhibits high V	I. Can be used in a wide v	ariety of
Nuto H 32	32	32	5.4	104	0.87	-24	212	Denison HF-0	DIN 51524-2 2006-09, ISO L-HM (ISO 11158, 1997)	Vickers I-286-S & M-2950-S
		ontaining nts are re		-quality a	antiwear l	nydraulic	oil intend	ed for industrial and mo	bile service applications w	here antiwear
Nuto H 46	46	46	6.7	104	0.88	-24	226	Denison HF-0	DIN 51524-2 2006-09, ISO L-HM (ISO 11158, 1997)	Vickers I-286-S & M-2950-S
		ontaining nts are re		-quality a	ntiwear l	nydraulic	oil intend	ed for industrial and mo	bile service applications w	here antiwear
Nuto H 68	68	68	8.5	107	0.88	-18	234	Denison HF-0	DIN 51524-2 2006-09, ISO L-HM (ISO 11158, 1997)	Vickers I-286-S & M-2950-S
		ontaining nts are re		-quality a	antiwear l	nydraulic	oil intend	ed for industrial and mo	bile service applications w	here antiwear
Mobil Hydraulic Oil HLPD 32	32	32	5.4	102	0.87	-27	205		DIN 51524-2: 2006-09	
	particu	ilary good	dispersa	ncy and c	detegency	/ capabili	ties for ap	c fluids containing a sele oplications where severe ible cutting fluids or off-	contamination	Recommended by ExxonMobil for use in applications requiring
Mobil Hydraulic Oil HLPD 46	46	46	6.7	97	0.88	-27	210		DIN 51524-2: 2006-09	
	dispers		detegen	cy capabi	lities for a	applicatio	ns where	severe contamination ca	ective additive system part an occur. Such application	
Mobil Hydraulic Oil HLPD 68	68	68	8.6	99	0.88	-24	225		DIN 51524-2: 2006-09	
	dispers		detegen	cy capabi	lities for a	applicatio	ns where	severe contamination ca	ective additive system part an occur. Such application	
Mobil Hydraulic Oil M 46	46	46	6.8		0.875	-27	210	Müller- Weingarten	DIN 51524-2: 2006-09	
	silicone	and zinc.	It exhibits	excellent	t EP and c	orrosion p	protection	properties, outstanding	It is free from ash-forming oxidation and thermal stab d for Muller Weingarten hy	ility, small foaming
Mobil Pyrotec HFC 46	46	46	9.5	195		-50		Factory Mutual Global Standard 6930, ISO L-HFC (ISO/DIS 12922)	Factory Mutual- Standard 6930, ISO L-HFC (ISO/DIS 12922)	
	conditi		gned par	ticularly fo	or hydrau				rotecting equipment unde nydraulic pumps used in, f	
Mobil Pyrotec HFD 46	46	43	5			-20	246	Factory Mutual Global Standard 6930	FM Global Standard 6930	
	Fire res	sistant ph	osphoric	acid este	r based H	IF-R fluid.	Designe	d especially for use in tui	rbine control systems requ	uiring HFD-R









Cylinder Oils



Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil 600 W Super Cylinder Oil	460	460	30.5	95	0.91	-6	282			
		igh-perfo itable for				r steam c	sylinders.	Lubrication of high load a	and slow moving bearing	s and gears.
Mobil Extra Hecla Super Cylinder Oil Mineral	1000	1000	42	80	0.92	3	288			
		9 1	,	9	,		,	Lubrication of high load a dy separation from cond	5 5	s and gears.











Refrigeration Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Gargoyle Arctic SHC 224	32	29	5.6	132	0.82	-54	230	NSF-H1- Regristration Number 123 194	FDA 21 CFR 178.3570	
	Outsta		istance to						n compressors and heat p nia and carbon dioxide as	
Mobil Gargoyle Arctic SHC 226 E	68	69	10.1	136	0.83	-50	266	NSF-H1-Regristration Number 133 449	FDA 21 CFR 178.3570	
	Outsta		istance to						n compressors and heat p nia and carbon dioxide as	
Mobil Gargoyle Arctic SHC 228	100	97	13.7	147	0.84	-45	255	NSF-H1- Regristration Number 138 669	FDA 21 CFR 178.3570	
	Outsta		istance to						n compressors and heat p nia and carbon dioxide as	
Mobil Gargoyle Arctic SHC 230	220	220	25	149	0.85	-39	260	NSF-H1- Regristration Number 123 197	FDA 21 CFR 178.3570	
	Outsta		istance to						n compressors and heat p nia and carbon dioxide as	
Mobil Gargoyle Arctic SHC NH 68	68	64	8.5	111	0.85	-54	211			
		tic refrige atible with				mmende	d for scre	w and reciprocating com	ppressors, using ammonia	a as refrigerant.
Mobil Gargoyle Arctic Oil 155	32	32			0.91	-42	190			
	temper		ood freez	ing, cold					at and excellent fluidity at a refrigerant but also sele	
Mobil Gargoyle Arctic C Heavy	46	46			0.91	-39	195			
	temper		ood freez	ing, cold	storage p				nt and excellent fluidity at a refrigerant but also sele	
Mobil Gargoyle Arctic Oil 300	68	68			0.91	-36	200			
	temper		ood freez	ing, cold	storage p				nt and excellent fluidity at a refrigerant but also sele	
Mobil EAL Arctic 22	22	23.2	4.6	130	1.00	-57	236			
	lubricity Suitabl	y, wear pr	otection,	chemica	l and ther	mal stabi	lity. For re	efrigeration compressors	nesised polyol esters (PO using ozone-friendly HF ditioning, and low tempe	C refrigerants.











Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	at point 15°C °C	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil EAL Arctic 22 cc	22	24	4.8	129	0.99	-54	236			
	lubricity Suitable	, wear pro e for comi	otection, mercial re	chemical efrigeratio	and then	mal stabi s busines	lity. For re s, shoppir	frigeration compressors	esised polyol esters (PO using ozone-friendly HF ditioning, and low tempe	C refrigerants.
Mobil EAL Arctic 32	32	34.2	5.8	115	0.98	-48	236			
	lubricity	, wear pr	otection,	chemical	and then	mal stabi	lity. For re	frigeration compressors	resised polyol esters (PO using ozone-friendly HF poing, and low temperati	C refrigerants. Sui-
Mobil EAL Arctic 46	46	49.2	7.3	115	0.97	-42	230			
	lubricity	, wear pr	otection,	chemical	and then	mal stabi	lity. For re	frigeration compressors	resised polyol esters (PO using ozone-friendly HF oning, and low temperatu	C refrigerants. Sui-
Mobil EAL Arctic 68	68	68	8.7	95	0.96	-36	230			
	lubricity	, wear pr	otection,	chemical	and then	mal stabi	lity. For re	frigeration compressors	resised polyol esters (PO using ozone-friendly HF oning, and low temperati	C refrigerants. Sui-
Mobil EAL Arctic 100	100	105	11.6		0.97	-30	>250			
	lubricity	, wear pr	otection,	chemical	and then	mal stabi	lity. For re	frigeration compressors	resised polyol esters (PO using ozone-friendly HF oning, and low temperati	C refrigerants. Sui-
Mobil EAL Arctic 220	220	226	18.5	90	0.96	-21	290			
	lubricity	, wear pr	otection,	chemical	and ther	mal stabi	lity. For re	frigeration compressors	resised polyol esters (PO using ozone-friendly HF poning, and low temperatu	C refrigerants. Sui-
Mobil Zerice S 32	32	32	4.2		0.86	-33	154			
	rotary c	ompresso	ors. Due t	o its che		ire excell			wide range of industrial in efrigerants such as R22. T	
Mobil Zerice S 46	46	46	5.4		0.87	-30	154			
	rotary c	ompresso	ors. Due t	o its che		ire excell			wide range of industrial in efrigerants such as R22. T	
Mobil Zerice S 68	68	68	6.5		0.87	-27	174			
	rotary c	ompresso	ors. Due t	o its che		ire excell			wide range of industrial in efrigerants such as R22.	
Mobil Zerice S 100	100	100	8		0.87	-27	186			
	rotary c	ompresso	ors. Due t	o its che		ire excell			wide range of industrial in efrigerants such as R22. T	

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Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Rarus 32	32	30.6	5.6	123	0.88	-42	204			
	air com severe potenti	npressors. applicatio	Particula Ins subject Per up to 3	rly suited ted to hig times oil	for severe gh final co	e service i mpressio	where syn	thetic oil-based products atures or where extended	cation of severe duty rota are not meeting expecta oil drain intervals are des ubricants. Not for air com	tions such as in ired. Provides the
Mobil SHC Rarus 46	46	44.1	7.1	122	0.87	-42	197			
	air com severe potenti	npressors. applicatio	Particula ns subject er up to 3	rly suited ted to hig I times oil	for severe gh final co	e service v mpressio	where syn	thetic oil-based products atures or where extended	cation of severe duty rota are not meeting expecta I oil drain intervals are des ubricants. Not for air com	tions such as in ired. Provides the
Mobil SHC Rarus 68	68	65.3	9.7	129	0.87	-39	192			
	air com severe potenti	npressors. applicatio	Particula ns subject er up to 3	rly suited ted to hig times oil	for severe gh final co	e service v mpressio	where syr on temper	thetic oil-based products atures or where extended	cation of severe duty rota are not meeting expecta oil drain intervals are des ubricants. Not for air com	tions such as in ired. Provides the
Mobil Rarus SHC 1024	32	31.5	5.7	127	0.85	-48	245			
								ion of rotary screw and va iile applications. Long ser	ane air compressors and f vice life.	or exhaust gas
Mobil Rarus SHC 1025	46	44	7.2	131	0.85	-45	246			
								ion of rotary screw and va ille applications. Long ser	ane air compressors and f vice life.	or exhaust gas
Mobil Rarus SHC 1026	68	66.6	10.1	136	0.86	-45	246			
								ion of rotary screw and va iile applications. Long ser	ane air compressors and f vice life.	or exhaust gas
Mobil Rarus 827	100	107.5	10.1	66		-36	270			
		tic, dieste nary and n			performa	nce air co	ompresso	r oil. For use for severe d	uty reciprocating air com	pressors.
Mobil Rarus 829	150	158	13.2	70		-40	270			
		tic, dieste aary and n			performa	nce air co	ompresso	r oil. For use for severe d	uty reciprocating air com	pressors.









Compressor Oils



Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³		°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Rarus PE KPL 201		117			0.87	-12	230	NSF-H1-Registration Number 146247	FDA 21 CFR 178.3570, European Directive 2002/72/EC, USP-NF<661> (vol.1, 2008), FDA Processing Aid in production of Polymers compliant with 177.1520	
								hylene and co-monomer. dour in the final polymer.	s compressors up to 3400	bars.
Mobil Rarus 424	32	32	5.4	105	0.87		236		DIN 51506 VD-L	
								nultistage air compressor	s. Suitable for reciprocatir	ng and
Mobil Rarus 425	46	46	6.9	105	0.87		238		DIN 51506 VD-L	
								multistage air compresso ection. Stationary and m	ors. Suitable for reciprocat obile applications.	ing and
Mobil Rarus 426	68	68	8.9	105	0.88		251		DIN 51506 VD-L	
								multistage air compresso ection. Stationary and m	ors. Suitable for reciprocat obile applications.	ing and
Mobil Rarus 427	100	100	11.6	100	0.88		264		DIN 51506 VD-L	
								multistage air compresso ection. Stationary and m	ors. Suitable for reciprocat obile applications.	ing and
Mobil Rarus 429	150	150	14.7	100	0.87		269		DIN 51506 VD-L	
					,		-	multistage air compresso ection. Stationary and m	ors. Suitable for reciprocat obile applications.	ing and
Mobil Gas Compressor Oil		175	32.3	230	1.06	-36	294			
	Synthet	tic, polygi	lycol base	d compre	essor oil f	or the co	mpressio	n of hydrocarbons such	as Natural Gas, Propane, a	and Butane.
Mobil Vacuum Pump Oil 100		100			0.874	-9	270			
		m lubrica n pumps.	nt, blend	ed from s	pecific hi	gh-qualit	y white o	ils with low volatility cha	racteristics, for the lubrica	tion of











Air Tool Oils

Brand name	ISO VG	Kinematic Viscosity mm²/s		Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Almo 525	46	46	7.3	105	0.88	-24	188			
	Premiu	m-quality	, high-pe	rformanc	e lubricar	nt, suitab	le for pne	umatically operated rock	drills in underground and	d surface mining
Mobil Almo 527		112.9	11.4	91	0.9	-30	204			
	Premium-quality, high-performance lubricant, suitable for pneumatically operated rock drills in underground and surface mining									









Brand name	SAE Grade	Visc	matic osity n²/s	Visco- sity	TBN mg	Ash wt%	Density at 15°C	Pour- point °C	Flash Point °C	Specifications
		40°C	100°C	Index	KOH/g		g/cm ³			Approved
Mobil SHC Pegasus 30	30	65	10.5	162	5	0.5	0.842	-42	225	**see note
energy efficiency	protection	. Deterge	nt-disper	sant syst	em contro	ols the forma	tion of ca	rbon and	varnish c	e gas engines with the highest levels of deposits to minimize oil consumption and el consumption reductions. *see note
Mobil SHC Pegasus 40	40	82	13	150	5.6	0.56	0.847	-18	210	**see note
	protection	. Deterge	nt-disper	sant syst	em contro		tion of ca			e gas engines with the highest levels of deposits to minimize oil consumption and
Mobil Pegasus 1	15W-40	93.8	13.0	137	6.5	0.5	0.854	-48	238	**see note
	Synthetic, lean-burn			gas engi	ne oil. Foi	most dema	nding natu	urally asp	irated an	d turbocharged stoichiometric and
Mobil Pegasus 1005	40	125	13.0	100	5	0.5	0.85	-15	247	**see note
	protection	. Deterge	nt-disper	sant syst	em contro	ay's high out ols the forma led drain inte	tion of ca	emission rbon and	four-cycle Varnish c	e gas engines with the highest levels of deposits to minimize oil consumption and
Mobil Pegasus 805	40	125	13	100	5	0.5	0.85	-15	247	**see note
	Premium-	performa	nce gas e	ngine oil.	For high	output 4-str	oke engine	es.		
Mobil Pegasus 705	40	126.2	13.2	98	5.6	0.5	0.887	-18	252	**see note
	High-quali	ity gas en	gine oil fo	or mediur	n and hig	h speed gas	engines ui	nder hea	vy-duty o	peration, with high neutralisation capacity
Mobil Pegasus 710	40	121	13.2	98	6.5	1.0	0.896	-15	249	**see note
	High-perfo	ormance g	gas engin	e oil for r	nildly agg	ressive bioga	eses.	,		
Mobil Pegasus 605	40	126	13.3	96	7.1	0.5	0.887	-15	255	**see note
	High-perfo sulphide ai			e oil for r	nedium a	nd high spee	d 4-stroke	e engines	operatin	g on corrosive fuel such as hydrogen
Mobil Pegasus 610	40	131	13.3	98	10.8	0.98	0.889	-18	257	**see note
	High-perfo sulphide a			e oil for r	medium a	nd high spee	d 4-stroke	e engines	operatin	g on corrosive fuel such as hydrogen
Mobil Pegasus 605 Ultra 40	40	137.5	15.0	110	5.3	0.6	0.850	-21	268	**see note
		on landfil	l gas that							dium and high-speed four-cycle engines or siloxane. Very good anti-wear and
Mobil Pegasus SR	40	130	14.0	104	6	0.5	0.88	-15	246	**see note
	and high-s	peed fou	r-cycle er	ngines op	erating o		containing	g corrosi	ve materi	d for the lubrication of modern medium als such as, hydrogen sulphide or halogen







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

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





Heat Transfer Oils

Brand name	ISO VG	Kiner Visco mn	,	Visco- sity	Density at	point	Flash Point °C		Specifications	
		40°C	100°C	Index	Index 15°C g/cm³	°C		Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobiltherm 594		4.8	1.5		0.85	-42	135			
		ur point, l						direct heat transfer syste the entire range of opera		
Mobiltherm 603		20.2	4.2		0.9	-15	194			
		High-performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash poil and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.							High flash point	
Mobiltherm 605		30.4	5.4		0.86	-12	230			
								nineral base stocks. Good and closed heating and c		High flash point
Mobiltherm 610		113	11.5		0.88	-6	250			
								nineral base stocks. Good and closed heating and co		High flash point
Mobiltherm 611		490	31.7		0.9	-6	300			
	and go		nce to th	ermal cra	cking. Fo			nineral base stocks. Good and closed heating and c		







Cutting Fluids – Water Miscible



Brand name	Refracto- meter	Appearance of	pH at 5 %	Mineral Oil Content		Specifications					
	Correktion Factor	Emulsion		%	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring				
Mobilcut 100	0.95	Milky	8.9	80							
	a wide rang	lsion, conventional metal ge of both, ferrous and no ring, drilling and reaming.	on ferrous m	aterials in ligh	nt to moderate duty ma	achining operations, suc					
Mobilcut 140	1.0	Milky	9.1	48							
	aluminum a	lsion, conventional, long l and high machinability ste here the lubricity of a solu	eels in mode	rate to heavy-	-duty operations such	as milling, turning, sawi	ng, boring, drilling and				
Mobilcut 210	1.85	Translucent	9.1	20							
	product ha	netic microemulsion, meta s good detergent, coolan on ferrous/non ferrous m	t and cutting	g properties, i	making it suitable for li	ght to moderate duty cu					
Mobilcut 230	1.1	Translucent	9.3	47							
	even in hig	netic mikroemulsion, meta h pressure systems. Prima ning, sawing, boring, drilli	erily recomm	nended for ma	achining steels, easier t	to machine stainless ste					
Mobilcut 240	1.7	Translucent	9.1	20							
	including h	netic microemulsion, meta ard water compatibility, m added boron and boric aci	nachine tool	cleanliness ar	nd long term stability. F	or cast iron and modera	te to operate steels.				
Mobilcut 250	0.9	Translucent	9.4	43							
	aluminum a	netic microemulsion, meta alloys and where low stair provides high machining p	ning potentia	al is importan	t on sensitive compone	ents. Containing high le					
Mobilcut 260	1.02	Translucent	9.8	40							
	Semi-synth	netic microemulsion, meta num alloys, but also suitab	alworking flu le for coppe	nid for a wide or alloys.	variety of metals and a	all kind of operations. Es	pecially for aluminum				
Mobilcut 320	1.45	Clear	8.9	0							
	Inherently stable, synthetic (mineral oil-free) metalworking fluid. Designed for grinding operations, primarily of steels and cast iron, where a high-quality surface finish, outstanding cooling and low foaming potential are the primary requirements. Helps maintain free and open grinding wheels for maximum performance and shows a marked stability for long service life.										







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Cutting Fluids – Neat

Brand name	Visc	matic cosity n²/s	Density at	Pour- point	Flash Point		Specifications	
	40°C	100°C	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilmet 423	15	3.5	0.86	-15	182			
	brasses silicon-	s, bronzes	and for s licon-bro	teels and	cast irons	to moderate duty cutting and s. For severe cutting operation ckel. Also suitable as machine	ns of difficult-to-machine non-	-ferrous alloys such as
Mobilmet 424	23	4.9	0.86	-15	200			
	brasses silicon-	s, bronzes	and for s licon-bro	teels and	cast irons	to moderate duty cutting and s. For severe cutting operation ckel. Also suitable as machine	ns of difficult-to-machine non-	-ferrous alloys such as
Mobilmet 426	32	5.7	0.87	-15	210			
						operations of non ferrous met nachine tool lubricant. Non co		ons on materials having a
Mobilmet 427	46	6.9	0.88	-12	212			
						operations of non-ferrous me nachine tool lubricant. Non co		ions on materials having a
Mobilmet 443	15.3	3.8	0.86	-33	170			
	and thr	ead grind		g, broach	ning and f	lerate to severe duty operation or automatic operations of ste		
Mobilmet 446	32.6	6.0	0.88	-24	190			
	and thr	ead grind		g, broach	ning and f	lerate to severe duty operation or automatic operations of ste		
Mobilmet 447	45.9	7.4	0.89	-33	220			
	and thr	ead grind		g, broach	ning and f	lerate to severe duty operation or automatic operations of ste		
Mobilmet 762	10	3.0	0.87		160			
	diamet	er), thread	ding, tapp	ing, parti	ng-off an	nded for severe cutting opera d automatic lathe operations o er and it's alloys.		
Mobilmet 763	18	4.0	0.87		180			
	diamet	er), drilling	g, tapping	, threadir	ng, milling	nded for severe cutting opera , gear shaping, broaching, pa for use with copper and it's	rting-off and automatic lathe	
Mobilmet 766	36	6.0	0.88		205			
	and sha	aping, bro		laning, pa	arting-off	nded for severe cutting opera and automatic lathe operation t's alloys.		











Brand name	Visc	matic osity n²/s	Density at	point	Flash Point		Specifications						
	40°C	100°C	15°C g/cm³	°€	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring					
Mobilgrind 14	6	2.0	0.78		150								
	oils to h	Designed for light duty cylindrical and surface grinding of carbon and alloy steels. Formulated with high-quality additives and base oils to help reduce misting and maintain viscosity at the point of application. Low viscosity helps fines to settle out quickly from the oil and assists filtration of the oil for re-use in circulation systems. Bright, clear, non copper-corrosive.											
Mobilgrind 24	7	2.5	0.83		130	0							
	finish h		safety razo			rinding applications on steels of a varying hardness, particularly well suited for roll for use in large volume circulation systems where continuous filtration is employ							
Mobilgrind 26	12	3.0	0.79		170								
	operati	ons wher		scosity, lo	w misting	ardened steels and other carb pproduct is required. Bright ar							
Mobilgrind 36	15	2.5	0.80		180	Kapp GmbH							
	Medium/heavy-duty product intended for finish grinding of hardened steels. It has excellent wettability to avoid burning grinding wheels clean. Bright and clear, low evaporation, non copper-corrosive, efficient removal of fines from the cutting												
Mobilgrind 37	20	4.0	0.82		200	00							
	flutes in	n these hi		, operatior	ns. May al	ing applications such as mill a so be used as a hydraulic fluid ea.	3 3, 1	9					







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Rust Preventives

Brand name	ISO VG		matic osity n²/s	Visco- Density sity at		Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilarma 524		88.4	10.5		0.882	-18	218			
	of engi		boxes an	d other ir	ndustrial e	equipmer			oricant, for temporary cor run-in lubricant for diese	
Mobilarma 798			23.1				238			
		l oil basec r applicat							or long term corrosion pr	rotection in
Mobilarma 778		39			0.88	-3	190			
	coating		sion mac	hined par	ts and ins	strument:			ion of cold-rolled sheet a ome light duty pressing o	
Mobilarma LT		4.4			0.845		65			
	storage		ine comp	onents, a	automotiv	e parts a	s well as		of ferrous and alloy com surfaces. (Film thickness 4	
Mobilarma MT		1.8			0.813		55			
	storage	e and tran	sit. It is p	articularl	y suitable	for the p	rotection		rrous and alloy compone ision parts where heavy f max. 2 month).	
Mobilarma SF		33			0.88		160			
								coil, wire and bar which in	mproves lubricity and adl	hesion during







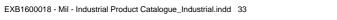
Food Industry Oils



Brand name	ISO VG	Visc	matic osity n²/s	Visco-	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Cibus 32	32	30	5.8	140	0.829	<-54	253	Kosher, Halal, NSF-H1-Registration Number 141 500	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51524 HLP	
energy	operati	ion in the	food and	beverag	e process	ing and p	ackaging		ection, long oil life and prouse in food processing ma	
Mobil SHC Cibus 46	46	43	7.7	148	0.833	-51	258	Kosher, Halal, NSF-H1-Registration Number 141 498	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51524 HLP	
energy	operati	ion in the	food and	beverag	e process	ing and p	ackaging		ection, long oil life and prouse in food processing ma	
Mobil SHC Cibus 68	68	72	11.4	151	0.838	-48	267	Kosher, Halal, NSF-H1-Registration Number 141 499	FDA 21 CFR 178.3570, DIN 51506 VDL, DIN 51524 HLP	
energy efficiency	operati	ion in the	food and	l beverag	e process	ing and p	ackaging		ection, long oil life and prouse in food processing ma	
Mobil SHC Cibus 100	100	100	14.6	143	0.839	-45	270	Kosher, Halal, NSF-H1-Registration Number 145 255	FDA 21 CFR 178.3570 DIN 51506 VDL, DIN 51517 CL,P DIN 51524 HLP	
energy	operati	on in the	food and	beverag		ing and p	ackaging	industries. Suitable for u	ection, long oil life and prouse in food processing ma	
Mobil SHC Cibus 150	150	162	20.7	150	0.843	-21	226	Kosher, Halal, NSF-H1-Registration Number 141 502	FDA 21 CFR 178.3570, DIN 51517 CLP	
energy	operati	ion in the	food and	l beverag		ing and p	ackaging	industries. Suitable for u	ection, long oil life and prouse in food processing ma	
Mobil SHC Cibus 220	220	222	24.5	139	0.857	-24	274	Kosher, Halal, NSF-H1-Registration Number 141 503	FDA 21 CFR 178.3570, DIN 51517 CLP	
energy efficiency	operati	ion in the	food and	l beverag		ing and p	ackaging	industries. Suitable for u	Lection, long oil life and prouse in food processing ma	
Mobil SHC Cibus 320	320	311	32.7	147	0.854	-42	284	Kosher, Halal, NSF-H1-Registration Number 141 505	FDA 21 CFR 178.3570, DIN 51517 CLP	
energy efficiency	operati	ion in the	food and	l beverag		ing and p	ackaging	industries. Suitable for u	ection, long oil life and prouse in food processing ma	







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





Food Industry Oils

Brand name	ISO VG	Kinematic Viscosity mm²/s		Visco-	Density at	Pour- point	Flash Point	Specifications				
		40°C	100°C	Index	15°C g/cm³	` ℃	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring		
Mobil SHC Cibus 460 * energy efficiency*	460	458	43.6	148	0.856	-42	294	Kosher, Halal, NSF-H1-Registration Number 141 501I	FDA 21 CFR 178.3570, DIN 51517 CLP			
	Premium-quality synthetic lubricant, designed to provide outstanding equipment protection, long oil life and problem-free operation in the food and beverage processing and packaging industries. Suitable for use in food processing machinery such as gears, bearings and circulation equipment. Energy saving potential.											
Mobil SHC Cibus 32 HT	32	30.4	5.91	135	0.829	-54	234	Kosher, Halal, NSF-H1/ HT1- Registration Number 141 504	FDA 21 CFR 178.3570, DIN 51522 (1998-11)			
		Premium-quality synthetic heat transfer oil for use in closed, indirect heating installations. High resistance to thermal cracking and chemical oxidation which results in longer service life.										
Mobil Glygoyle 220	220	220	38.1	225	1.08	-33	265	NSF-H1-Registration Number 136642, Fives Cincinnati P-39	FDA 21 CFR 178.3570			
	sion an not rec	Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricants are not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and rolling contact bearings in wide variety of applications.										
Mobil Glygoyle 320	320	320	55.2	240	1.08	-33	265	NSF-H1-Registration Number 136643	FDA 21 CFR 178.3570			
	sion an	Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.										
Mobil Glygoyle 460	460	460	77.2	250	1.08	-33	265	NSF-H1-Registration Number 136467, Fives Cincinnati P-39	FDA 21 CFR 178.3570			
	sion an	Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.										
Mobil Glygoyle 680	680	680	112.4	265	1.08	-33	265	NSF-H1-Registration Number 136 468	FDA 21 CFR 178.3570			
	corrosi not rec	Synthetic, high-performance poly-alkylene-glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Lubricant not recommended for use with light metal alloys containing Aluminum or Magnesium. Plain and antifriction bearings in wide variety of applications.										
Mobil Gargoyle Arctic SHC 224	32	29	5.6	132	0.82	-54	230	NSF-H1-Registration Number 123 194	FDA 21 CFR 178.3570			
									compressors and heat pu dioxide as well as for R-22			
Mobil Gargoyle Arctic SHC 226 E	68	69	10.1	136	0.83	-50	266	NSF-H1-Registration Number 133 449	FDA 21 CFR 178.3570			
		Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs										







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



Food Industry Oils



Brand name	ISO VG	Kinematic Viscosity mm²/s		Visco- sity	Density at	Pour- point	Flash Point	Specifications				
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring		
Mobil Gargoyle Arctic SHC 228	100	97	13.7	147	0.84	-45	255	NSF-H1-Registration Number 138 669	FDA 21 CFR 178.3570			
	Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outs resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other								1			
Mobil Gargoyle Arctic SHC 230	220	220	25	149	0.85	-39	260	NSF-H1-Registration Number 123 197	FDA 21 CFR 178.3570			
		Synthetic, supreme-performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia and carbon dioxide as well as for R-22 and other HCFCs.										











Food Industry Greases

Brand name	NLGI Viscosity mm²/s	osity	Visco-	Thickener Type	Drop-		Specifications		
	Orace	40°C	100°C	Index	Туре	Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgrease FM 101	1	100			Aluminium- complex	260	NSF-H1-Registration Number 141881, Kosher, Parve, Halal,	FDA 21 CFR 178.3570, DIN 51825 (2006:06) KPF 1 K -20	
	Multipu	Multipurpose grease fo			l and beverage indus	stry. Cen	tralized grease distribu	ition systems.	
Mobilgrease FM 222	2	220			Aluminium- complex	260	NSF-H1-Registration Number 136449, Koscher, Parve, Halal, Fives Cincinnati P-72	FDA 21 CFR 178.3570, DIN 51825 (2006:06) KPF 2 K -20	
	Multipu	ipurpose grease for t		r the food and beverage industry.					
Mobil SHC Polyrex 005	00	220	30		Polyurea	260	NSF-H1-Registration Number 141947, Kosher/Parve	FDA 21 CFR 178.3570, DIN 51826 (2005:01) GPFHC 00 K-30	
	probler	ns in bot	h genera	el industr		ng applic	ations. Offers a combi	v by solving high tempera	
Mobil SHC Polyrex 222	2	220	30		Polyurea	260	NSF-H1-Registration Number 141946, Kosher/Parve	DIN 51825 (2004:06) KPFHC 2 P-30, FDA 21 CFR 178.3570	
	both ge	eneral ind	dustry ar	nd food p				n high temperature lubi h temperature perforn	
Mobil SHC Polyrex 462	2	460	40		Polyurea	270	NSF-H1-Registration Number 139558, Kosher/Parve	DIN 51825 (2004:06) KPFHC 2 P-20, FDA 21 CFR 178.3570	
	Supreme-performance synthetic grease designed to improve productivity by solving high temperature lubrication problems in both general industry and food processing applications. Offers a combination of high temperature performance, excellent was resistance and balanced performance properties.								









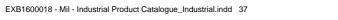
Paper Machine Oils



Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC PM 150	150	158	18.9	124	0.86	-39	220			
	output	paper ma	chines ar	nd of cale		. Especia	lly suitable	ng circulation systems lub e for the dryer sections o nance.		
Mobil SHC PM 220	220	225	25.6	127	0.86	-36	220			
	output	paper ma	chines ar	nd of cale		. Especia	lly suitabl	ng circulation systems lub e for the dryer sections o nance.		
Mobil SHC PM 320	320	325	34.7	130	0.87	-33	220			
	output	paper ma	chines ar	nd of cale		. Especia	lly suitabl	ng circulation systems lube for the dryer sections o nance.		
Mobil SHC PM 460	460	465	44.8	137	0.87	-27	220			
	output	paper ma	chines ar	nd of cale	bricant. F ndar rolls excellent k	. Especia	lly suitabl	ng circulation systems lub e for the dryer sections o nance.	oricating gears and beari f paper Machines. Readil	ngs of high y separates water.
Mobil Paper Machine Oil S 220	220	220	27	157	0.86	-39	240			
	Excepti	onal prote	ection of	gears and		s even un	ider high i	demanding industrial pa load (FZG=12). Excellent nance.		
Mobil DTE PM Excel 150	150	150	14.5	96	0.89	-18	264		DIN 51517-3 2011-08 DIN 51524-2 2006-09 VOITH VN 108 4.3.1 CL 150 VOITH VN 108 4.3.3 HLP 150 VOITH VN 108 4.3.4 CLP 150 METSO PAPER RAUAH02724 METSO PAPER Wet End RAU4L00659 METSO PAPER PBM Dry End RAU4L00659	
	demus		air releas	sė, maxin	num prote			well as for calendars of pa bearings and effective fi		
Mobil DTE PM Excel 220	220	220	19	95	0.89	-6	260		DIN 51517-3 CLP DIN 51517-2 CL	
	demusi		air releas	e, maxim				vell as for calendars of pa bearings and effective fil		
Mobil DTE PM 150	150	150	14.7	95	0.88	-6	250			
	paper n	nachine c	irculating	systems.		il DTE PN		nance lubricants specifica ils are formulated to prov		
Mobil DTE PM 220	220	220	19	95	0.89	-6	260			
	paper n	nachine c	irculating	systems.		oil DTE PN		nance lubricants specifica iils are formulated to prov		
Mobil DTE PM 320	320	320	25.4	95	0.89	-6	250			
	paper n	nachine c	irculating	systems.		oil DTE PN		nance lubricants specifica ils are formulated to prov		











Paper Machine Greases

Brand name	NLGI Grade	Visc	matic osity n²/s	Visco-	Thickener Type	Drop- ping								
		40°C	100°C	Index	,	Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring					
Mobilith SHC PM 220	1.5	220			Lithium Complex			DIN 51825: (2004-06) KPHC 1-2 N-40						
	Designed for use in the most critical antifriction bearing applications in paper machines. Provides outstanding protection against rust and typical acid and alkali water corrosion, making it ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the synthetic base stock ensures excellent service at high temperatures typical of dry end conditions.													
Mobilith SHC PM 460	1.5	460			Lithium Complex	275		DIN 51825: (2004-06) KPHC 1-2 N-40						
	against and exc	Designed for use in the most critical antifriction bearing applications in paper machines. Provides outstanding protection against rust and typical acid and alkali water corrosion, making it ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the synthetic base stock ensures excellent service at high temperatures typical of dry end conditions.												
Mobil Centaur XHP 221	1.5	220			Calcium- Sulphonate Complex	318		DIN 51825: (2004-06) KP 1-2 G-20						
					ns been formulated loaded conditions.	to lubrica	ate antifriction bea	arings in industrial mac	hinery operating at high					
Mobil Centaur XHP 461	1 460 Calcium- Sulphonate Complex DIN 51825: (2004-06) KPF 1 K-20													
	The cal The inh	Multipurpose Calcium Sulphonate Complex Grease, formulated with advanced calcium sulfonate thickener technology. The calcium sulfonate thickener carries both inherent rust protection and extreme pressure (EP) properties. The inherent EP properties exhibit great stability in the presence of water, allowing a balance between wear protection and resistance to corrosion.												







Open Gear Lubricants



Brand name	NLGI Grade		matic osity n²/s	ISO VG	Visco- sity	Thickener Type	Drop- ping			
		40°C	100°C		Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilgear OGL 007	00-0	460				Lithium	200			
		erformar ben gear:			aphite. Designed for fond.	ast, medium and				
Mobilgear OGL 009	00-0	1500				Lithium	200			
	0 1					at contain EP addit. d cement. Suitable		, ,	aphite. Designed for f	est, medium and
Mobilgear OGL 461	1.5	460				Lithium	200			
						P additives and fine Suitable for bath or			igned for fast, medium	and slow open
Mobiltac 375 NC		5000 (diluted)	1260 (undil- uted)							
	High-performance, solvent containing, bitumen based product, intended for the lubrication of open gears over a wide range of environmental conditions and machine requirements.									











Greases

	_	1		ı	I	1	I				
Brand name	NLGI Grade	Visc	matic osity n ² /s	Visco-	Thickener Type	Drop- ping		Specifications			
		40°C	100°C	Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring		
Mobil SHC Polyrex 005	00	220	30		Polyurea	260	NSF-H1-Registration Number 141947, Kosher/Parve	FDA 21 CFR 178.3570, DIN 51826 (2005:01) GPFHC 00 K-30			
	probler	ms in bot	th gener	al industr		ng applic	ations. It offers a comb	by solving high temper bination of high temper			
Mobil SHC Polyrex 222	2	220	30		Polyurea	260	NSF-H1-Registration Number 136449, Koscher, Parve, Halal, MAG IAS, LLC P-64	DIN 51825 (2004:06) KPFHC 2 P-30, FDA 21 CFR 178.3570			
	both ge	eneral in	dustry ar	nd food p				n high temperature lubi igh temperature perfor	rication problems in mance, excellent water		
Mobil SHC Polyrex 462	2	460	40		Polyurea	270	NSF-H1-Registration Number 139558, Kosher/Parve	DIN 51825 (2004:06) KPFHC 2 P-20, FDA 21 CFR 178.3570	Recommended by ExxonMobil for use in applications requiring		
	Supreme-performance synthetic grease designed to improve productivity by solving high temperature lubrication proboth general industry and food processing applications. It offers a combination of high temperature performance, expressions and balanced performance properties.										
Mobilith SHC 007	00	460			Lithium-Complex		Fives Cincinnati P-81	DIN 51826: (2005-01) GPHC 00 K-30			
		ing cond						plications at extremes Used in industrial, aut			
Mobilith SHC 100	2	100			Lithium-Complex	265	AAR-942, Fives Cincinnati P-73	DIN 51825: (2004-06) KPHC 2 N-40			
	such as	s electric	motors,		duced friction, low v			ommended for higher : equired. It is an NLGI 2			
Mobilith SHC 220	2	220			Lithium-Complex	265		DIN 51825: (2004-06) KPHC 2 N-30			
					ose, NLGI 2 extreme 20 synthetic base flu		re grease recommende	ed for heavy-duty autor	motive and industrial		
Mobilith SHC 460	1.5	460			Lithium-Complex	265	Fives Cincinnati P-64	DIN 51825: (2004-06) KPHC 1-2 N-40			
	recomr low-to-	mended : -modera	for tougi te speed	h industri Is and in a	al and marine applic	ations. It vater res	provides outstanding istance is a critical fact	and is an extreme pres bearing protection und or. Mobilith SHC 460 h	der heavy loads at		
Mobilith SHC 1000 Special	2	1000			Lithium-Complex	265		DIN 51825: (2004-06) KPFHC 2 N-30			
	Mobilith SHC 1000 Special is an NLGI 2 Grade grease with ISO VG 1000 synthetic base fluid and strongly fortified with solid lubricants including 11% graphite and 1% molybdenum disulphide for maximum protection of plain or rolling element bearings operating under boundary lubrication regimes. This product is designed to extend bearing life under conditions of extremely slow speeds, sliding contacts, and high temperatures										
Mobilith SHC 1500	1.5	1500			Lithium-Complex	265		DIN 51825: (2004-06) KPHC 1-2 N-30			
	elemen	t bearing	is operati	ing at extr	remely slow speeds, u	under he	avy loads and high temp	id. It is intended for use peratures. Mobilith SHC in slag transfer rail car b	1500 effective in in a		









Brand name	NLGI Grade	Visc	matic cosity n ² /s	Visco- sity	Thickener Type	Drop- ping		Specifications	
		40°C	100°C	Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobiltemp SHC 32	1.5	32			Clay	260+		DIN 51825: (2004-06) KPHC 1-2 K-50L	
								thermal/oxidative degr periods and energy savi	
Mobiltemp SHC 100	2	100			Clay	260+			
								thermal/oxidative degr periods and energy savi	
Mobiltemp	1	460			Clay	260+			
SHC 460 Special	structu	ral stabili	ity at hig		ature. Long service l			thermal/oxidative degr periods and energy savi	
Mobil Polyrex EM	2	115	12.2		Polyurea	260		DIN 51825: (2004-06) K 2 P-20	
							d for electric motor be so for low noise sensit	earings and sealed-for- tive environments.	life bearings.
Mobil Polyrex	3	115	12.2		Polyurea	270			
EM 103								ed electric motor bearir pise sensitive environm	
Mobilgrease XHP 221	1	220			Lithium-Complex	280	Fives Cincinnati P-72	DIN 51825: (2004-06) KP 1 N-20	
								and severe operating c	
Mobilgrease XHP 222	2	220			Lithium-Complex	280	Fives Cincinnati P-64	DIN 51825: (2004-06) KP 2 N-20	
							motive, construction a amination, high loads a	nd marine applications. and shock loading.	. Used for severe
Mobilgrease	2	320			Lithium-Complex	270			
XHP 322 Mine	operati		tions, ind					and marine applications olybdenum disulfide to	
Mobilgrease XHP 461	1	460			Lithium-Complex	280		DIN 51825: (2004-06) KP 1 N-20L	
							motive, construction a amination, high loads a	nd marine applications. and shock loading.	. Used for severe
Unirex N 2	2	115			Lithium-Complex	230		DIN 51825: (2004-06) K 2 N-20L	
								rice in all types of bearir ic motors and sealed-fo	
Unirex N 3	3	115			Lithium-Complex	230		DIN 51825: (2004-06) K 3 N-20L	
								rice in all types of bearir ric motors and sealed-fo	











Greases

Brand name	NLGI Grade	Visc	matic osity n²/s	Visco- sity	Thickener Type	Drop- ping		Specifications				
		40°C	100°C	Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring			
Unirex EP 2	2	220			Lithium-Complex	260		NLGI GC-LB				
	be wate		nination	and/or he					ularly where there may variety of industrial and			
Mobilux EP 004	00	160			Lithium		SEW Eurodrive/ PS C Gears	DIN 51826: (2005-01) GP 00 G-20				
	High-performance general purpose semi-fluid 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. Particularly suited to industrial applications where conventional gear oils cannot be retained in equipment such as gear cases, chain cases, because of leakage due to worn or missing seals											
Mobilux EP 0	0	160			Lithium	190		DIN 51826: (2005-01) GP 0 G-20				
	against	wear, rus	sting and	d water w		equipm		nium thickener to provi t conditions are comm	de extra protection on. Recommended for			
Mobilux EP 1	1	160			Lithium	190		DIN 51825: (2004-06) KP 1 K-20				
	against	wear, rus	sting and	d water w		equipm		nium thickener to provi t conditions are comm	de extra protection on. Recommended for			
Mobilux EP 2	2	160			Lithium	190		DIN 51825: (2004-06) KP 1 K-20				
	against	wear, rus	sting and	d water w		equipm		nium thickener to provi t conditions are comm	de extra protection on. Recommended for			
Mobilux EP 3	3	160			Lithium	190		DIN 51825: (2004-06) KP 1 K-20				
	against	wear, rus	sting and	d water w		equipm		nium thickener to provi t conditions are comm	de extra protection on. Recommended for			
Mobil SHC Grease 102 EAL	2	100			Lithium	180		DIN 51825: (2004-06) KPE 1 K-40				
					signed specifically fo gradable and virtuall			ronmentally sensitive lu	ibricants.			
Mobil Centaur XHP 221	1.5	220			Calcium Sulfonate Complex	318		DIN 51825: (2004-06) KP 1-2 G-20				
	Multipurpose Calcium Sulphonate Complex Grease, formulated with advanced calcium sulfonate thickener technology. The calcium sulfonate thickener carries both inherent rust protection and extreme pressure (EP) properties. The inherent EP properties exhibit great stability in the presence of water, allowing a balance between wear protection and resistance to corrosion.											
Mobil Centaur XHP 461	1.5	460			Calcium Sulfonate Complex	275		DIN 51825: (2004-06) KPF 1 K-20				
	The calc	cium sulf	onate th	ickener c	arries both inherent	rust pro	tection and extreme pr	um sulfonate thickener ressure (EP) properties balance between wea	•			











Brand name	NLGI Grade	2,		Visco- sity	Thickener Type	Drop- ping		Specifications		
				Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilgrease Special	2				Lithium	190			DIN 51825: (2004-06) KPF2K-20	
	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 trac construction and mobile equipment.									











Specialty Products

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications		
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilsol PM		383	21	56	0.885		208				
								dded to the oil in hydrauli oxidation products and i		eral circulation	
Mobil Pyrolube 830		180	20,4	132	0.93	-46	270				
								lly suitable for hot applica endency of deposit forma		ıp to chain	
Mobil SHC Chain 240		245	19	86	0.968	-24	290				
		Chain lubricant with exceptional performance designed for lubrication of high temperature conveyor chains at temperatures up to 290°C. Provides excellent wear protection and resistance to evaporation, thermo-oxidation and coking.									
Mobil Clean Industrial					0.762		>56				
	Solvent based cleaning fluid										











Brand name	SAE- Grade	Visc	matic osity n²/s	Visco- sity	y at point		TBN mg		Specifications						
		40°C	100°C	Index	15°C g/cm³	°C	KOH/g	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring					
Mobilgard 312	30	108	12	100	0.896	-9	15								
	marine a	and indus	trial appli	ications. I	Formulate	ed to have	e excellen	n trunk piston engines op t resistance to oxidation o rosion protection.							
Mobilgard 412	40	142	14.5	100	0.899	-9	15								
	marine a	High-performance marine diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. Formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. Superior water separating properties and excellent corrosion protection.													
Mobilgard ADL 30	30	90	11.5	117	0.889	-30	12		Meets the requirements of many major medium- speed marine diesel engine builders	API CF					
	on distil cylinder	late and N liner lacq osit remo	ЛDO fuel uer form	s. Specia ation in s	l balance evere sen	of deterg vice appli	ent and c cations b	y for high BMEP medium lispersant properties prov ut also minimises piston r e time between engine o	vides not only increased r ing and liner wear and as	esistance to sists in sludge					
Mobilgard ADL 40	40	132	14.7	112	0.892	-21	12		Meets the requirements of many major medium- speed marine diesel engine builders	API CF					
	on distil	late and N liner lacq osit remo	ЛDO fuel uer form	s. Specia ation in s	l balance evere sen	of deterg vice appli	ent and c	y for high BMEP medium lispersant properties prov ut also minimises piston r e time between engine o	rides not only increased r ing and liner wear and as	esistance to sists in sludge					
Mobilgard M330	30		12		0.907	-6	30								
	engines ness, es	for marin pecially in	e and sta crankcas	ationary p se, camsl	ower app naft areas,	olications. , ring belt	Outstan	oil for use in the most seventing residual fuel compation undercrowns. Provides d corrosion protection.	ibility to deliver excellent	engine cleanli-					
Mobilgard M430	40		14		0.907	-6	30								
	engines cleanlin	for marin ess, espec	ne and sta cially in cr	ationary p ankcase,	ower app camshaft	olications. areas, rii	Outstan ng belt ar	oil for use in the most sev ding residual fuel compat d piston undercrowns. Pr properties and corrosion	ibility to deliver excellent rovides excellent high ten	engine					
Mobilgard M440	40		14		0.915	-6	40								
	Recommoil constinuity ring, cyl	Premium, extra high-performance 40 TBN marine engine oil designed to meet the needs of engines operating on heavy fuel. Recommended for use in the latest model medium speed diesel engines and especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Relatively high alkalinity reserves provide superior protection in neutralising the strong acids resulting from high sulphur fuels that find access to the crankcase to promote oil degradation and ring, cylinder, and bearing corrosion. Demonstrates excellent high temperature oxidation and thermal stability, low volatility, and high load carrying properties along with engine cleanliness.													

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Aviation Oils

Brand name	ISO VG	Kinematic Viscosity Visco- mm²/s Visco- sity		Density at 15°C	Pour- Flash point Point		Specifications				
		40°C	100°C	Index	g/cm³	°C	°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			
	unique	chemical	additive _i	package.	The combination	n provides	s outstand	a combination of a high ding thermal and oxidat s excellent resistance to	ive stability to resist		
Mobil Jet Oil 254		26.4	5.3		1.0044	-62	254	MIL-PRF-23699F-HTS			
					rmance, syntheti es used in comm			turbine lubricant engine aircraft.	eered to meet the p	erformance	
Mobil Aero HF		14	5.2	370	0.872	-62	107	MIL-PRF-5606, NATO Code H-515			
	Formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. Low viscosity product, high VI fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.										









Aviation Grease



Brand name	NLGI Grade	Visc	Kinematic Viscosity mm²/s 40°C 100°C		Visco- sity	Thickener Type	Drop- ping		Specifications		
		40°C			Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobilgrease 28	1.5	30				Clay	307	MIL-PRF-81322G, NATO G-395		DOD-G-24508A, Amendment 4	
	Suprom	Supreme performance wide temperature anti-way grease decigned to combine the unique features of a polyalphaelefin (PAO)									

Supreme-performance, wide-temperature, antiwear grease designed to combine the unique features of a polyalphaolefin (PAO) synthetic base fluid with an organo-clay (non-soap) thickener. Provides excellent low temperature pumpability, very low starting and running torque, and can reduce operating temperatures in the load zone of rolling element bearings.









Rolling Oils and Rolling Oil Additive Concentrates

Brand name	ISO VG	Visc	matic cosity n²/s	Visco- sity	Density at	Pour- point °C	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³		°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Airclean Oil		30.8	5.38		0.863	-15	>220			
	Oil for r		f SOLVEN	IT-based	cold rollir	ng oil froi	n exhaus	t air of roll stands.	T	
Mobil Clean Industrial		1,2 (at 25°C)			0.765	<-50	58		FDA	
modstrici		cosity, ea				n blend, s	pecially u	I used for the laminate / do	I Suble process during alun	ninum rolling. Also
Companies 44	suitable	as halog	en-tree d	egreasing 		,	120			
Somentor 44	Cold so		r stainles	s stools (0.83	d other r	120	sy filtration, suitable for	 Supamic Filtration. Adjust	table for use on
								l, good oxidation stability		able for use off
Somentor 53		7.2			0.845	-21	160			
							netals. Ea	sy filtration, suitable for S	Supamic Filtration. Adjust	table for use on
6 . 4170	various		gurations T	. Alcohol	technolog		1/0			
Somentor AL70	Dromium	7.2	fully con		0.85	-6	160	and and foreque metals I	 Easy filtration, suitable fo	s Supamis
	Filtratio	n. Bright	surface fi	nish on r	olled meta				tasy filtration, sultable for Firations, including rod mi	
	technol	ogy, med	ium opera	eting effic	1		1	T	T	
Somentor AH70		7.3			0.852	-6	152			
									Easy filtration, suitable for Irations. Alcohol technolo	
					o Soment		JOIC TOT G.	se on various min connige	rations. Alcohor technolo	ogy, mgner
Somentor AH45		4.2			0.822	-6	140			
	Filtratio		surface fi						Easy filtration, suitable for rrations. Alcohol technolo	
Somentor EL70		7.3			0.851	-21	158			
	Filtratio	n. Bright	surface fi	nish on r		al, even a	t demano		tals. Easy filtration, suitab ns. Adjustable for use on	
Somentor EL45		4.2			0.823	-12	142			
	Filtratio	n. Bright	surface fi	nish on r	olled meta	al, even a	t demand		tals. Easy filtration, suitab ns. Adjustable for use on	
Somentor EH70		7.5			0.857	-27	158			
	rolled m		n at dema						tals. Easy filtration. Bright ill configurations. Ester t	
Somentor EH45		4.2			0.83	-15	136			
	rolled m		n at dema	nding co	ld rolling				tals. Easy filtration. Bright nill configurations. Ester t	
Somentor EH80		8.5	2.4		0.86	-27	150			
	rolled m	netal, ever	n at dema	nding co	ld rolling	operatio	ns. Adjust		tals. Easy filtration. Bright nill configurations. Ester t etals.	
Walzöl BM 71		7			0.845	-18	155			
					opper and n various r				of non-ferrous heavy me	tals, no staining.
Walzöl W 27		2				-6	92		FDA	
									dency. Adjustable to the	rolling mill.
Wyrol 3	Individu	1	tor a vari	ety of ap _l	plications,			on fluid.	EDA 21 CED 179 2010(-)	
Wyrol 2	Liquida	2.2	inhihitor	COnconte	0.83	18	93 I the life o	the rolling oil.	FDA 21 CFR 178.3910(a)	
Wyrol 4	LIQUIO	2.5	ווווטונטו' (Joncentra	0.795	o extend	93	Tare rolling oil.	FDA 21 CFR 178.3910(a)	
77,101 -	Rollina		itrate use	ed to onti				। inium roll oils in terms of	their frictional characteri	I stics and achieve
		uired surf								









Rolling Oils and Rolling Oil Additive Concentrates

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Wyrol 6		2.3			0.858	-3	111		FDA 21 CFR 178.3910(a)	
									their frictional characteris	stics and achieve
Wyrol 8	the requ	8	ace iinisn.	. Suitable	for speci	18	110 110	Cations.	FDA 21 CFR 178.3910(a)	
vv yror o	Rollina		l ntrate use	l d to onti				l inium roll oils in terms of	their frictional characteris	l tics and achieve
	the requ	uired surfa	ace finish.	. Suitable	for speci	al lubrica	tion appli	cations.		
Wyrol 10		2.8			0.84	6	80		FDA 21 CFR 178.3910(a)	
	_				mise rollir	ng oil life	and perfo	rmance in aluminium col	d rolling mill applications.	Suitable for
	special I	lubricatio	n requirei I	nents.	0.025	10	405		ED A 24 CED 170 2010(-)	
Wyrol 12	D - II:	8.2		-1++:	0.835	18	105		FDA 21 CFR 178.3910(a)	Cuitable for
		oii concer Iubricatioi			mise rollir	ng oil life	ana perto	rmance in aluminium col	d rolling mill applications.	Suitable for
Wyrol 15	эрселег.	9.3		11011101	0.846	9	154			
•	Rolling		ntrate to d	optimise i				lling of stainless steel wit	th Somentor A products.	
Concentrate 3048	9	11			0.925	<-24	170			
									el with Somentor A and I	products.
	Individu		ed to imp	rove ope	rating effi			finish.		I
Wyrol HS 22		22			0.868	-51	160			
					itiwear hy lling and s			fically designed for use in	n modern aluminium rollir	g mills, where
Wyrol HS 46	guilis co	44	lalleriges	111101110	0.87	-42	175			
Wyloriis 40	Premiur		ic. low sta	L ainina. ar				l fically designed for use in	l n modern aluminium rollin	l a mills . where
					lling and s			neeny designee ver dee m		gs ,e.e
Wyrol H 15		15			0.84	-18	130		FDA 21 CFR 178.3910(a)	
	Premiur	n synthet	ic, low sta	aining, an	tiwear hy	draulic flu	iid, specif	ically designed for use in	modern aluminium rolling	mills , where
	gums ca		hallenges	in toil rol	ling and s				ED A 24 CED 470 2040()	I
Wyrol H 32	Ci	32		4::	0.85	-18	130		FDA 21 CFR 178.3910(a)	
Wyrol B 460	Semi-sy	460	ow stainin	160	ear nyarau 	-12	130	y aesignea for use in mod	dern aluminium or yellow FDA 21 CFR 178.3910(a)	metai roiiing miiis
Wyloi B 400	Semi-sv		l nw stainir		n=/circula			l esigned for aluminium co		
Wyrol BG 220	Jerrii 3y	235	32	lg bearing	1.01	-30	275	esigned for didiffilliant co	la rolling rrills.	
,	High-pe			tic low st				ı for rolling mills. Specifica	lly designed to overcome	the problems
								nate the roll oil.		
Wyrol BG 320		320	45		1.01	-30	275			
									lly designed to overcome	the problems
Weed BC 4/0	generat	460	convention 63	onal bear	1.01	eting oils -27	contamir 275	nate the roll oil.		
Wyrol BG 460	High or	1		tic low st	1		1	for solling mills. Specifica	lly designed to overcome	the esoblems
								nate the roll oil.	lly designed to overcome	the problems
Wyrol MS 220	-	220			0.86	-21	140			
	Synthet	ic, low sta	aining bea	ering oil f	or oil/air d	or oil/mis	t lubricati	on specially for modern a	aluminum rolling mills.	
Wyrol MS 460		460			0.87	-21	140			
	Synthet	ic, low sta	aining bea	aring oil f	or oil/air d	or oil/mis	t lubricati	on specially for modern a	aluminum rolling mills.	
Prosol 35		56			0.944		>150			
	Concen	1	olending (emulsion:		olling of		as well as for cold rolling	g of ferrous alloys. Biocid	e-free.
Prosol 44 W		35			0.92		>160			
							əluminum	as well as for cold rolling	g of ferrous alloys. Extren	ne application
Prosol NT70	range, f	11gh Iubrio 42	ity and fil	yıı stabili	ity. Biocid	е-тгее. -9	190			
1030114170	Concor		londing	omulsios				and vollow motals as	 ell as for cold rolling and g	arinding of
			ntaining (5 101 11001	oning of	Jidiiillillil	i di id yellow Hiletais as We	in as for cold rolling and g	grinding of











Spindle Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Velocite Oil No. 3	2	2.1	0.95		0.80	-36	84			
		m-perform esistance					, ,	ndles in machine tools. G	ood oxidation and therm	al resistance.
Mobil Velocite Oil No. 4	5	4.8	1.5		0.82	-15	102			
	1	n-perform				_	, ,	ndles in machine tools. G	ood oxidation and therm	al resistance.
Mobil Velocite Oil No. 6	10	10	2.6		0.84	-15	180			
	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.								al resistance.	
Mobil Velocite Oil No. 10	22	22	4.0		0.86	-30	212			
	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.								al resistance.	









Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Gear 320 WT	320	335	42.1	187	0.854	-45	256		AGMA 9005-E02 DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
	of wind be subje turbines	turbine g ect to mic	rearboxes ropitting, r applicat	and lubr heavily lo ions whe	icant life e paded gea ere extrem	even und arboxes v ae low an	er extrem vith surfa d/or high	ne conditions. Especially in ace-hardened tooth meta	rovide optimum equipme recommended for applica illurgies, which are typical intered and applications v	tions that may ly used in wind
Mobilgear SHC XMP 320	320	335	38.3	164	0.86	-38	242		AGMA 9005-E02 EP, DIN 51517-3, 2009-06	
	extreme tempera	e conditio	ns. Extrac commen	ordinary t ded for a	hermal ar pplicatior	nd oxidat	ion stabil	ity, inherent high viscosit	rotection and optimal oil ly index, excellent flowabilextreme low and/or high	ity at low
Mobilgear XMP 320	320	320	24.1	96	0.9	-18	268	Hansen Jahnel-Kestermann	AGMA 9005-EO2 EP, ISO L-CKC, (ISO 12925-1, 1996)	
energy officioney		erformand subject to			eme cond	itions. Re	commen	ded for highly loaded wii	nd turbine gearboxes. For	applications that
Mobil SHC 524	32	32	6.4	144	0.85	-56	234	Denison HF-0, Denison HF-1, Denison HF-2		
	VI for ex		w and hi	gh tempe	rature pe				g of wind turbine rotor bla for vane and piston pump	
Mobil DTE 10 Excel 32 **	32	327	6.6	164	0.85	-54	250	Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S) Denison HF-2	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK, Bosch-Rexroth RE 90220-1	
energy	in wind	turbines s	such as fo	or hydrau	lic pitchin	g of wind	l turbine i	rotor blades. Potentially r	of modern high-pressure reduced energy consumpi anction. (FZG fail stage = 1	tion. Innovative
Mobil DTE 10 Excel 46 ** energy **ificiency*	46	456	8.5	164	0.85	-45	232	Arburg Hydraulic fluid Denison HF-O, Eaton Vickers 694 (encompasses former I-286-S, M-2950-S or M-2952-S)	DIN 51524-2: 2006-09, DIN 51524-3: 2006-09, ISO 11158 L-HV, JCMAS HK VG46W (JCMAS P 041:2004), Bosch- Rexroth RE 90220-1, Krauss-Maffei hydraulic Oil	
	industri	al and mo	bile equi	oment hy	draulic sy	stems. În	novative		meet the needs of modern ance protects critical hyd	
Mobil SHC Gear 220		22000	700	180	0.86	6	240	,		
energy efficiency	conditio	ns. Desig	ned to pi	ovide exc	cellent pro	otection a	against co		I tection and oil life even ur such as scuffing but also of wind turbines.	









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

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





Windturbine Oils

Brand name	ISO VG	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°℃	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil SHC Gear 460	460	460	54.1	184	0.86	-48	234	SIEMENS AG Flender gear units, T 7300, Table A-c, Flender Code No. A33, SEW Eurodrive SEW IG CLP HC 460	AGMA 9005-E02 EP DIN 51517, Teil 3 (CLP), ISO 12925-1 Typ CKD	
energy	conditio	ns. Desig	ned to pi	ovide exc	cellent pro	otection a	igainst co		tection and oil life even u such as scuffing but also of wind turbines.	
Mobil SHC 629 ** energy ** efficiency*	150	150	21.1	166	0.86	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A36. SEW Eurodrive: SEW IG CLP HC 150, SEW SG CLP HC 150. MAG IAS, LLC P-77	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
	/		-	,				nd cold conditions. Excel	llent thermal and oxidation	on stability for long
Mobil SHC 630 ** energy efficiency*	220	220	28.5	169	0.87	-42	220	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A35. DESCH ZG 30 gear unit SEW Eurodrive: SEW IG CLP HC 220 & SEW SG CLP HC 220.	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
								nd cold conditions. Exceled in turbines.	llent thermal and oxidation	on stability for long
Mobil SHC 632	320	320	38.5	172	0.87	-42	225	SIEMENS AG Flender gear units, T 7300, Table A-c, Code No. A34. SEW Eurodrive: SEW IG CLP HC 320 MAG IAS, LLC P-59	AGMA 9005 EO2-EP DIN 51517-3 CLP, ISO 12925-1 CKD	
9								nd cold conditions. Excel ind turbines.	llent thermal and oxidation	on stability for long



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









Windturbine Greases



Brand name	NLGI Grade	Visc	matic osity n²/s	ISO VG	Visco-	Thickener Type	Drop- ping		Specifications	
		40°C	100°C		Index	,,	Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilith SHC 100	2	100				Lithium- Complex	265	AAR-942, Fives Cincinnati P-73	DIN 51825: (2004-06) KPHC 2 N-40	
	conditi	ons. Exce	ellent adı	hesion, s	tructural				remes of temperature a lated to lubricate gene	
Mobil SHC Grease 460 WT	1.5	460				Lithium- Complex	255		DIN 51825: (2004-06) KPHC 2 N-30	
	extrem		nperatur		ease especially suited to exceed the demanding requirements of wind turbi Specially formulated to lubricate yaw, pitch and main bearings of wind turb					
Mobilith SHC 007	00	460				Lithium- Complex		Fives Cincinnati P-81	DIN 51826: (2005-01) GPHC 00 K-30	
	temper	ature an	d operat	ing conc	litions. Ex	id grease designed t scellent adhesion, sti plications.			bine applications at ex	tremes of
Mobilgear OGL 007	00-0	460				Lithium	200			
						contains EP additive application.	es and fi	nely dispersed grapl	nite. Designed for slow	moving open
Mobilgear OGL 461	1.5	460				Lithium	200			
			nce grea. Ne for sp			P additives and fine	ly disper	sed graphite. Desigr	ned for slow moving of	pen gears in wind











Brand name	ISO	Visc	matic cosity m ² /s	Visco-	Density	Pour-	Flash		Specifications	
	VG	40°C	100°C	sity Index	at 15°C g/cm³	point °C	Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilfluid 125	32	30	5.3	104	0.88	-30	225	Voith Turbo Transmissions 120.00059010		
					nsmissior tion, and				namic gears and hydraulid	systems typically
Mobilfluid 422	SAE 10W-30	85	10.8	110	0.89	-30	226			Ford New Holland ESN-M2C86-B
	Extra h require		rmance,	multipurp	oose tract	or lubrica	nnt engine	eered to meet or exceed t	transmission and hydrauli	ic fluid
Mobilfluid 424		55	9.3	145	0.88	-42	198		Kubota UDT, ASTM D6973 (Eaton 35VQ) high pressure vane pump test	API GL-4, Allison C-4 (Agriculture Applications Only), Caterpillar TO-2, CNH MAT 3505/3525, Ford New Holland ESN-M2C-134-D, Ford New Holland FNHA-2C-201.00, JI Case MS 1204-07/09, Massey Ferguson M-1135, M-1141, AGCO Powerfluid 821 XL, John Deere J20C, Denison UTTO/THF
	Extra h require		rmance,	multipurp	oose tract	or lubrica	nt engine	eered to meet or exceed t	transmission and hydrauli	c fluid
Mobilfluid 426		59	9.7	149	0.89	-39	228	ZF TE-ML 03E/05F/06K/17E/21F	Kubota UDT, ASTM D6973 (Eaton 35VQ) high pressure vane pump test	API GL-4, AGCO Powerfluid 821 XL, Allison C-4 (Agriculture Applications Only), Caterpillar TO-2, CNH MAT 3505/3525, Ford New Holland FNHA- 2-C-201.00, Ford ESN-M2C134-D, J. I. Case MS 1204-07/09, John Deere J20C, Massey Ferguson MF M-1135/ M-1141/M-1143/ M-1145, Denison UTTO/THF, VOLVO WB-101
	Extra h require		ormance r	multipurp	ose tracto	or lubrica	nt engine	ered to meet or exceed to	ransmission and hydrauli	c fluid









Brand name	ISO VG	Visc			Density at	Pour- point	Flash Point		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobilfluid 316M		53.1	10.0	179	0.877	-42	218			Mobilfluid 316M is suitable for use in many hydraulic pumps in: Poclain Hydraulics, Mecalac, Kubota, Sambron, Manitou, Linde Hydraulics
									sed in on- and off-highwooid accidental mix with o	
Mobilfluid LT	SAE 75W-80	34	7.2	180	0.875	-45	198			Caterpillar TO-2, Denison UTTO/ THF Deere J20D, ASTM D6973 (Eaton 35VQ) high pressure vane pump test
	and hyd	draulic flu	id require	ments. D	Delivers ex	ceptiona	l perform		ractor transmission, drive transmissions, drive axle re conditions.	









Brand name	SAE- Grade	Visc	matic osity n²/s	Visco-	Density at	Pour- point	TBN mg		Specifications	
		40°C	100°C	Index	15°C g/cm³ °C KOH/g Approved Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring				
Mobilube 1 SHC	75W- 90	102	15.1	156	0.870	-54	202	MAN 341 Typ E3 / Z2, MAN 342 Typ M3, M8-Approval 235.8, ZF TE-ML 02B/05B/12L/16F/17B/ 19C/21B, SAE J2360, JSC Avtodisel YaMZ Gearboxes, KOMATSU Part 195-32-61990-04	API GL-5/MT-1, Scania STO 1:0, ZF TE-ML 07A/08	API GL-4
	system. load-ca	Engineer rrying cap at therma	ed for he pability ov	avy-duty er wide d	manual ti operating	ansmissi tempera	ons and r tures and	ated using synthetic base ear axles where operation where extreme pressure Index (VI), extremely lov	ns require gear lubricants s and shock loading are e	with excellent expected.
Mobilube S	80W- 90	144	15.0	105	0.90	-30	210	MAN 341Typ E2/Z2, MAN 342 Typ M2, MB-Approval 235.0, ZF TE-ML 02B/05A/12L/ 12M/16B/17B/19B/2 1A, MACK GO-J	API GL-5 / MT-1, Scania STO 1:0, ZF TE-ML 07A/08, ISUZU Axle Oil/ Large Manual Transmission Oil	API GL-4, Meritor O-76-D, MIL-PRF-2105E
	transmi	ssion com	ponents	used in c	n-highwa	ay comme	ercial vehi	ride excellent lubrication to cles and cars. Potential b ture viscosity retention.		
Mobil Delvac 1 Gear Oil	75W- 90	120	15.9	140	0.860	-48	205	MB-Approval 235.8, MAN 342 Typ M2, SCANIA STO 2:0 A, Voith Turbo 132.00374401/2, ZF TE-ML 05B/12L/12N/ 16F/17B/19C/21B, Flender Railway Gears T 7302, Volvo 97312, SAE J2360, Dana SHAES 256 Rev C/429, Navistar MPAPS B-6821, Mack GO-J Plus, Hyundai Dymos P110SS AXLE - Low Floor Rear Axle, Detroit Fluids Specification 93K219.01	API GL-5/MT-1, Scania STO 1:0, ZF TE-ML 07A/08, ISUZU Axle Oil/LCV Front Axle Oil/Large Manual Transmission Oil, Meritor O-76-N	Eaton PS 163, MIL-PFR-2105E
	and exc basesto wide ter	ellent load cks and a mperature	d-carrying dvanced e range a	g capabil additives pplication	ity and what the production	nere extre uct provid protect	eme press des signifi against th	drivetrains that require g sures and shock loading a cant advantages over mi nermal degradation and c	nre expected. Formulated neral gear oils. Excellent _l	with synthetic performance for
Mobilube HD-A	85W- 90	184	17.0	99	0.9	-24	222	MB-Approval 235.0, MAN 342 Typ M1, ZF TE-ML 16C/17B/19B/21A	API GL-5, ZF TE-ML 07A	
	comme on-high	rcial trans	missions, light trud	axles, ar ks and h	nd final dr	ives whe	re extrem	base oils and an advance e pressures and shock loo les as well as for off-high	ading are expected. Reco	mmended for







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	ISO VG	Kinematic Viscosity mm²/s		Visco- sity	Density at	Pour- point	Flash Point		Specifications				
		40°C	100°C	Index	15°C		°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring			
Mobilube LS	85W- 90	153	15.3	100	0.9	-36	216	ZF TE-ML 05C/12C/ 16E/21C	API GL-5				
	in applic	cations re ck loading	quiring A g are exp	PI GL-5 p ected. Ap	erforman plicantio	nce such a ns include	s heavy-o e passen	red specifically for limited-slip differentials. Recommended for use ry-duty differentials, axles, and final drives where extreme pressures enger cars, on-highway light and heavy-duty trucks, busses and van arrying, and agriculture.					
Mobilube GX-A	80W	76	10.0	104	0.89	-30	216	MB-Approval 235.1, ZF TE-ML 08 API GL-4, MAN 341 Typ E1/Z2, ZF TE-ML 17A					
	scoring	is require nd heavy-	d. Recom	mended	for manu	al transm	transmissions, axles, and final drives where protection against wear an issions and drive axles requiring API GL-4 level, passenger cars, on-high as well as for off-highway industries including construction, quarrying,						
Mobilube HD	80W- 90	136	14.5	105	0.9	-30	202		API GL-5, ISUZU Axle Oil				
	pressure	es and sh	ock loadii	ng are ex _l	pected. R	ecomme	nded for p	ations including heavy-duty axles and final drives where extreme or passenger cars, on-highway light and heavy-duty trucks and ruction, mining, quarrying, and agriculture.					
Mobilube HD	85W- 140	328	25.3	97	0.91	-18	224	4 API GL-5					
Heavy-duty gear lubricant engineered for automotive applications including heavy-duty axles and final drives where extreme pressures and shock loading are expected. Recommended for passenger cars, on-highway light and heavy-duty trucks and commercial vehicles, off-highway industries including construction, mining, quarrying, and agriculture.													











Automotive Greases

Brand name	NLGI Grade	Visc	mm²/s VG sity		Visco- sity	Thickener Type	Drop- ping		Specifications	
		40°C	100°C		Index		Point °C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Chassis Grease LBZ	00	40				Lithium	>160	MB-Approval 264.0, MAN 283 Li-P 00/000		
		9	rease, designed for the case in long pipelines.		the centra	l lubrication system.	s of com	mercial vehicles. Excell	ent flow properties at	low
Mobilgrease MB 2	2	180				Lithium	>190	MB-Approval 267.0, MAN 283 Li-P 2	DIN 51825: (2004-06) KP 2 K-30	
	very go	od water e grease	ickened grease for multi purpo water resistance, excellent co prease in fleets, agricultural and inded.		ellent corr	osion protection and	d good fl	low properties even at	low temperatures. Sin	gle multi





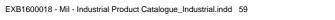


Automotive Engine Oils

Brand name	SAE- Grade	Visc	matic osity n²/s	Visco-	Density at	Pour- point	TBN mg		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	KOH/g	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac 1 LE	5W-30	69	11.8	168	0.855	-45	10	MB-Approval 228.51/228.31/235.28, MAN M 3677/M 3477/ M 3271-1, Volvo VDS-4/VDS-3, MTU Category 3.1, DEUTZ DQC IV-10 LA, Detroit Fluid Specification 93K218, Mack EO-O Premium Plus, Renault Truck RLD-3/RLD-2, Voith Retarder Oil Class B, Scania Low Ash, Avtodisel YaMZ-6-12	ACEA E9/E7/E6, API CJ-4/Cl-4 Plus/Cl-4/ SN, JASO DH-2, DAF Extended Drain, Cat ECF-3, Cummins CES 20081, Ford WSS- M2C171-E	Renault Truck RXD/RGD
	fuel eco		tential an					gine protection for mode s such as engine durabilit		
Mobil Delvac 1	5W-40	102	14.8	151	0.854	-45	12	MB-Approval 228.5/235.28, Volvo VDS-3/VDS-2, Scania LDF, Detroit Fluid Specification 93K214, Mack EO-N Premium Plus 03/EO-M Plus, Voith Retarder Oil Class B	ACEA E7/E4, API CI-4 Plus/CI-4/CH-4/SL/SJ, Cummins CES 20078/ 77/76/75, Ford WSS- M2C171-D, Renault Truck RXD, JASO DH-1, Global DHD-1	API CG-4/CF-4/ CF, Cat ECF- 1-a, Cummins 20072/71
	long dra	in capabi	ility for m	odern die	esel engin	es operat	ting in sev	fuel saving potential. Help vere applications, delivers well-maintained engines.		
Mobil Delvac 1 SHC	5W-40	84	14.2	176	0.86	-45	16	MB-Approval 228.5, MAN M 3277, MTU Category 3.1	ACEA E4	API CF/CE, Volvo VDS-2
	capabilit	ty, helping	g towards	s long eng	gine life fo	or diesel e	engines o _l	ring potential. Provides ex perating in severe applica d as well as older naturall <u>i</u>	tions. The advanced tech	ling long drain nnology behind
Mobil Delvac XHP Ultra	5W-30	69.7	11.8	166	0.856	-45	15.9	MB-Approval 228.5, MAN M 3277, MTU Category 3.1	ACEA E4	
					ne oil eng nhway app			outstanding protection a	and fuel economy for mo	dern heavy-duty
Mobil Delvac XHP Ultra LE	5W-30	69.4	11.9	169	0.85		10.9	MB-Approval 228.5/235.28, MAN M 3477, Voith Retarder Oil Class B		
	high-pei	rformanc	e, low en	nissions e	ngines us	ed in seve	ere on-hi	e outstanding protection of ghway applications, special diesel engines.		
Mobil Delvac XHP Extra	10W- 40	89.0	13.0	151	0.87	-42	15.9	MB-Approval 228.5/235.27, MAN M 3277, Volvo VDS-3/VDS-2, MTU Category 3, Scania LDF-3, ZF TE-ML 04C, Voith Retarder Oil Class A	ACEA E7/E4, Renault Truck RXD	API CF, Cummins CES 20072, Scania LDF-2
								ay's diesel and gasoline e		re applications to











Automotive Engine Oils

			matic							
Brand name	SAE- Grade		osity n²/s	Visco- sity	Density	Pour- point	TBN mg		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	KOH/g	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac MX Extra	10W- 40	102	14.7	150	0.868	-39	10.6	MB-Approval 228.5/235.28, MAN M 3275-1, Volvo VDS-3, MTU Category 2, Mack EO-N/EO-M Plus, Renault Trucks RDL-2, Voith Retarder Oil Class B, Avtodisel YaMZ-6-12, KAMAZ Euro-3,-4,-5	ACEA E7, API CI-4/ CH-4/SL/SJ, Cat ECF-2, Cummins 20076/77	ACEA A2/B2, API CG-4/CF-4/ CF, Cummins 20071/72, Detroit 7SE270, Renault Trucks RDL, Volvo VDS-2
	deliverir (EGR) ar	ng outstar	nding per eatment	formance Systems	e in mode	rn, high-c	output, lo	ine life in the most severe w-emission engines inclu rs (DPFs) and Diesel Oxid	ıding those with Exhaust	Gas Recirculation
Mobil Delvac MX ESP	10W- 30	79	11.9	145	0.87	-30	10.4	MB-Approval 228.31, MAN M 3575, Volvo VDS-4/VDS-3, Deutz DQC II-10 LA, Renault Truck RLD-3, Mack EO-O Premium Plus	ACEA E9/E7; API CJ-4/ CI-4 Plus/CI-4/CH-4/ SM, JASO DH-2, CAT ECF-3, Cummins 20081	API CF/CG-4
	Extra high-performance diesel engine oil that helps extend engine life in the most severe on- and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible in older engine models.								Gas Recirculation	
Mobil Delvac MX ESP	15W- 40	114	15	137	0.876	-30	10.4	MB- Approval 228.31, MAN M 3575, Volvo VDS-4/VDS-3/VDS-2, Deutz DQC II-10LA, Detroit Fluid Specification 93K214/93K218; Mack EO-N Premium Plus 03/ EO-O Premium Plus, Allison TES-439, Renault Truck RLD-3, FAWDE Q/ XC3135-2007 China V DE w/ SCR & China IV DE	ACEA E9/E7, API CJ-4/ CI-4 Plus/CI-4/CH-4/ SM/SL, JASO DH-2, CAT ECF-3, Cummins 20081,Isuzu DEO (w/ DPD Equipped Vehicles)	API CG-4/ CF-4/ CF-2/CF, MAN M 3275-1, Allison C-4
	deliverin (EGR) ar compati	ng outstar nd Aftertr	nding per eatment er engine	formance Systems e models.	e in mode with Dies Suitable	ern, high- el Particu for heavy	output, lo Ilate Filtei	ine life in the most severe w-emission engines inclurs (DPFs) and Diesel Oxido Dications and operating e	uding those with Exhaust Hation Catalysts (DOCs).	Gas Recirculation Fully backwards
Mobil Delvac MX	15W- 40	106	14.5	140	0.88	-30	10	MB-Approval 228.3, MAN M 3275-1, Volvo VDS-3, Mack EO-N/ EO-M Plus, Renault Truck RLD-2, MTU Category 2, Avtodisel YaMZ-6-12, KAMAZ Euro-3,-4,-5	ACEA E7, API CI-4/ CH-4/SL/SJ, Cat ECF-2, Cummins CES 20077/76, Isuzu DEO (w/DPD Equipped Vehicles)/ Small Manual Transmission Oil	ACEA A2/B2, API CG-4/CF-4/ CF, Renault Truck RLD, Volvo VDS-2, Cummins 20071/72, Detroit 7SE 270, Mack EO-M
								excellent lubrication of to	oday's diesel engines pro	moting long
Mobil Delvac Super 1400 E	15W- 40	106	14	135	0.887	-27	9.8	MB-Approval 228.3, MAN M 3275-1, MTU Category 1, KAMAZ Euro-3,-4,-5	API SJ	ACEA E3/A2/B2, API CG-4/CF-4/ CF, Renault Truck RD/RD-2, Volvo VDS-2
	on- and	off-highv	vay applic	cations. F	?ecomme	nded by E	ExxonMol	r diesel engines operating bil for use in a wide range rying, and agricultural ind	e of heavy-duty application	









Automotive Engine Oils



Brand name	SAE- Grade	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	TBN mg		Specifications	
		40°C	100°C	Index	15°C g/cm³	°C	KOH/g	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac 1640	40	132	14.7	112	0.89	-21	12	MAN 270, MTU Category 2, ZF TE-ML 04B	JASO DH-1	API CF/SF, ACEA E2,
		ade diese diesel en		oil formu	lated to m	neet or ex	ceed the	demanding specification	s of the world's leading b	uilders of
Mobil Delvac 1630	30	90	11.5	117	0.89	-30	12	MAN 270, MTU Category 2, ZF TE-ML 04B	JASO DH-1	API CF/SF, ACEA E2, Allison C-4
		ade diese diesel en		oil formu	lated to m	neet or ex	ceed the	demanding specification	s of the world's leading b	uilders of
Mobilgard 1 SHC	40	109	14.5	136	0.872	-54	15		API CF-2/CF, MTU Typ 2	
	distillate	fueled di	esel engir	nes. Provi	des unsur	passed lu	brication	including long drain capa	ted to address the needs bility and extended engine re FZG Level 12 is require	e life for today's







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Automatic Transmission Fluids

Brand name	Kinematic Viscosity mm²/s		Visco- sity	Density at	Pour- point	Flash Point		Specifications	
	40°C	100°C	Index	15°C g/cm³	°C	°C	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring
Mobil Delvac 1 ATF	39	7,3	168	0,85	-54	236	Allison TES-468/TES- 295, MB-Approval 236.91, ZF TE-ML 04D/14C/16M/20C, Voith Turbo H55.6336xx, Voith DIWA Service Bulletin 013 & 118- Extended Drain		
				atic transr pecificatio		recomme	ended by Allison Transmis	sion, Inc. and approved ag	ainst the Allison
Mobil ATF 220	37	7.0	153	0.87	-44	200	MB-Approval 236.7, MAN 339 Typ L1/V1/ Z1, VOITH TURBO H55.6335xx, ZF TE-ML- 04D/11A/14A		GM Dexron II/Type A Suffix A, Allison C-4, Renk Doromat, Caterpillar TO-2, Ford ESR- M2C163-A, GM Type A Suffix A, Volvo 97340
	,	erforman ue applica		or automa	atic transı	missions i	in older vehicles specifyin	g Dexron IID. It is also used	d as a hydraulic fluid
Mobil ATF 320	8.2			0.86		197	ZF TE-ML 03D/04D/14A/17C, MAN 339 Typ L2/V1/Z1, VOITH TURBO H55.6335xx		GM Dexron III G, Ford Mercon, Allison C-4, Volvo 97341
							. Also suitable for power transmission fluid is spec	steering systems, hydraulic iified.	applications
Mobil ATF SHC	33	7.4	200	0.839	-51	210	MB-Approval 236.8, MAN 339 Typ L2/V2/Z2, VOITH TURBO H55.6335xx, ZF TE-ML 09X/14B/16L 14B		GM Dexron IIE, Allison C-4, Caterpillar TO-2, Renk Doromat
	transm		or use in					t the demanding requirem n the severe, high-tempera	







Drivetrain Fluids

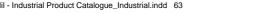


Brand name	SAE- Grade	Visc	matic osity n²/s	Visco- sity	Density at	Pour- point	TBN mg	Specification	Specifications		
		40°C	100°C	Index	15°C g/cm³	°C	KOH/g	Approved	Meets or exceeds requirements of	Recommended by ExxonMobil for use in applications requiring	
Mobil Delvac 1 Transmission Fluid	75W- 80	55.7	9.5	155	0.858	-42	234	ZF TE-ML 01L/02L/16K, MAN 341 Typ E3/Z4		API GL-4, ZF TE-ML 08	
	~	, ,						nt shifting performance, I n-highway light and heav	,	9	
Mobiltrans HD 10W	10W	42.0	6.3	96	0.89	-33	202	ZF TE-ML 07F	Caterpillar TO-4	Allison C-4	
	0 1		, ,	,				icant. Designed to optimed in off-highway applica	,	owershift	
Mobiltrans HD 30	30	100	11.2	97	0.89	-18	224	ZF TE-ML-03C/07F	Caterpillar TO-4	Allison C-4	
								icant. Designed to optimed in off-highway applica		owershift	
Mobiltrans AST		107	14.2	134	0.882	-39	222		Caterpillar TO-4M	Allison C-4	
	perform	ance spe	cification:	s for off-l	highway t	ransmissi	ions, drive	t or exceed the requireme etrains, and hydraulic syst vide range of environmen	tems. All Season Transmi		

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Useful information

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

Lubricating oils:

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

Greases:

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

Comments:

Not every product is available in all packages.





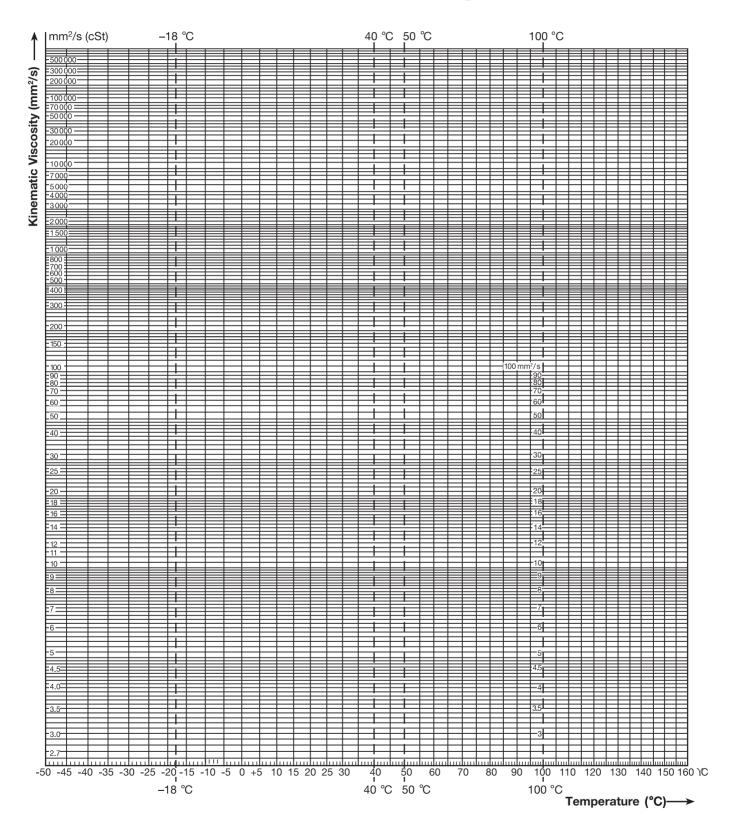






Performance by **E**xonMobil

Kinematic Viscosity-Temperature-Diagram







ISO Viscosity Classification

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

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

Grease Consistency (NLGI)

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









SAE ISO Viscosity Classification

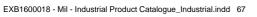
Kinematic	Viscosity	ISO VG		
mm²/s at 40°C	mm²/s at 100°C	mm²/s at 40°C	mm²/s at 100°C	Gear Oils mm²/s at 100°C
1000 — 800 — 600 — 500 — 400 — 300 — 200 — 100 — 80 — 50 — 40 — 30 — 20 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 — 110 —	60	1500 1000 680 460 320 220 150 100 68 46 32 22 15 10	50 40 30 20 10W 5W	250 140 90 85/ 85W 80/ 80W

SAE

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







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ExxonMobil Petroleum & Chemical BVBA

Polderdijkweg B-2030 Antwerpen

TechDeskEurope@exxonmobil.com

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