

INDUSTRY STANDARD, ORIGINAL ENGINE MANUFACTURER (OEM) AND PROPRIETARY COMPONENT MANUFACTURER SPECIFICATIONS



	INDUSTRY STANDARDS			OEM STANDARDS							PROPRIETARY COMPONENT MANUFACTURER STANDARDS					
	ACEA*	API*	Other	Caterpillar*	Ford	GM Dexron	MAN	Mercedes-Benz	Renault	Volvo	Other	Allison	ZF	Voith	Other	
ENGINE OILS																
Ursa Ultra XLE SAE 5W-30	E6; E9; E7	CJ-4; CI-4 Plus; CI-4; SN	JASO DH-2*	ECF-3			M3477; M3677	MB-Approval 228.31; MB-Approval 228.51; Suitable for use in gas engines ^a	RLD-3; RLD-2; RGD ^Δ ; RXD ^Δ ; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-2 ^Δ ; VDS-3; VDS-4; CNG ^a	Cummins CES 20081* DAF engines ^Δ Detroit Diesel DDC3K218* Deutz DQC IV-10 LA Iveco Euro VI engines ^Δ Mack EO-D Premium Plus; EO-N MTU Oil Category 3.1					
Ursa Ultra X SAE 10W-30, 10W-40	E6; E7	CI-4	JASO DH-2*				M3477; M3271-1	MB-Approval 228.51; MB-Approval 226.9	RLD-2; RLD ^Δ ; RXD ^Δ ; RGD ^Δ ; RD ^Δ ; RD-2 ^Δ	VDS-2 ^Δ ; VDS-3; CNG applications ^a	Cummins CES 20076*; CES 20077* DAF Trucks Suitable for use in DAF trucks ^Δ Deutz DQC-III-10 LA Mack EO-N MTU Oil Category 3.1					
Ursa Ultra S SAE 10W-40	E6; E7	CI-4					M3477	MB-Approval 228.51; Suitable for use in gas engines ^a	RGD ^Δ ; RXD ^Δ ; RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-2 ^Δ ; VDS-3	Mack EO-N MTU Oil Category 3.1 Scania Low Ash					
Ursa Ultra LE SAE 10W-30	E9	CJ-4; SM		ECF-3; ECF-2; ECF-1a			M3575	MB-Approval 228.31; Suitable for use in gas engines ^a	RLD-3; RLD-2 ^Δ ; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-4; VDS-3 ^Δ ; VDS-2 ^Δ	Cummins CES 20081* Detroit Diesel 93K218* Deutz DQC III-10 LA Mack EO-D Premium Plus; EO-N* MTU Oil Category 2.1	TE-ML 03K				
Ursa Ultra LE SAE 15W-40	E9; E7	CJ-4; CI-4 Plus; CI-4; CH-4; CF; SM	JASO DH-2*	ECF-3; ECF-2; Suitable for use in Caterpillar 3600 series engines ^a	WSS-M2C171-E ^Δ		M3575	MB-Approval 228.31; Suitable for use in gas engines ^a	RLD-3; RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-2 ^Δ ; VDS-3; VDS-4	Cummins CES 20081*; CES 20077* DAF engines ^Δ Detroit Diesel DDC3K218* Deutz DQC III-10 LA John Deere JDQ 78X* Mack EO-D Premium Plus; EO-N MTU Oil Category 2.1					
Ursa Premium TDX (E4) SAE 10W-40	E4; E7	CI-4					M3277	MB-Approval 228.5; MB 235.27 ^Δ	RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-2 ^Δ ; VDS-3	Cummins CES 20071*; CES 20072*; CES 20077; CES 20078 Deutz DQC III-10 Mack EO-N; EO-M Plus MTU Oil Category 3 Scania LDF-2			Retarder A		
Ursa Premium TDS SAE 10W-40	E4; E7	CF					M3277	MB-Approval 228.5	RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-2 ^Δ ; VDS-3	Mack EO-N Scania LDF-2; LDF-3					
Ursa Premium FE SAE 5W-30	E4; E7	CI-4		ECF-2			M3277; M3377	MB-Approval 228.5; MB 235.28 ^Δ	RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-2 ^Δ ; VDS-3	Deutz DQC IV-10 Iveco 18-1804 ^Δ Mack EO-N MTU Oil Category 3			Retarder B		
Ursa Premium TD SAE 10W-40, 15W-40, 20W-50	E7; A3/B4 (10W-40, 15W-40)	CI-4 (10W-40, 15W-40); CH4/SL (20W-50)	JASO DH-1*; DHD-1* (15W-40, 10W-40)	ECF-2 (15W-40)			M3275-1 (10W-40, 15W-40, 20W-50*)	MB-Approval 228.3 (15W-40, 20W-50); MB 228.3 (10W-40)*; MB 229.1 (10W-40)*	RLD-2 (10W-40, 15W-40); RD ^Δ ; RD-2 ^Δ ; RLD ^Δ (10W-40, 15W-40)	VDS-2 (10W-40, 15W-40)*; VDS-3 (10W-40, 15W-40)	Cummins CES 20076; CES 20077; CES 20078 (10W-40, 15W-40); Detroit Diesel DDC3K215 (15W-40)* Deutz DQC III-10 (10W-40, 15W-40) Mack EO-N (10W-40, 15W-40) MTU Oil Category 2 (10W-40, 15W-40)	CA* (10W-40, 15W-40)				
Ursa Heavy Duty SAE 15W-40	E2; B2 ^Δ ; A3/B3 ^Δ	CG-4/SJ					M3275-1	MB 228.3 ^Δ ; MB 229.1 ^Δ		VDS ^Δ	Mack EO-L ^Δ MTU Oil Category 2*					
GEAR OILS																
Multigear MTF HD		GL-4					341 Type E4 ^Δ ; 341 Type Z4 ^Δ	MB 235.4 ^Δ ; MB 235.11 ^Δ		97305; 97307; 97318	DAF Gearbox oil for Eaton gearboxes* Eaton Synthetic (500,000 km/3 years)		TE-ML 02L ^Δ			
Multigear S SAE 75W-140		GL-5; MT-1	SAE J2360*		WSL-M2C192-A*						Mack GO-J* Meritor 076-M* Scania STO 1.0; STO 2.0 A US Military MIL-PRF-2105E*		TE-ML 05B; TE-ML 07A ^Δ ; TE-ML 12B ^Δ ; TE-ML 12N; TE-ML 16F; TE-ML 19C; TE-ML 21B			
Multigear S SAE 75W-90		GL-4; GL-5; MT-1	SAE J2360 NATO 0-226*				341 Type E3; 341 Type Z2; 342 Type M3; 3343 Type S*	MB-Approval 235.8		97312	DAF Gearbox oil for Eaton gearboxes*; Gearbox oil for ZF gearboxes; Rear axle with hub reduction*; Rear axle without hub reduction* Scania STO 1.0		TE-ML 02B; TE-ML 05B; TE-ML 07A ^Δ ; TE-ML 08 ^Δ ; TE-ML 12B ^Δ ; TE-ML 12L; TE-ML 12N; TE-ML 16F; TE-ML 17B; TE-ML 19C; TE-ML 21B			
Multigear MTF SAE 75W-80		GL-4					341 Type Z4; 341 Type E3			97305-89*	DAF Oil for ZF transmissions; Oil for Eaton transmissions ^Δ Eaton (Europe) Semi-synthetic (300,000 km/3 years) ^Δ		TE-ML 01L; TE-ML 02L; TE-ML 16K			
Syn-Star GL SAE 75W-90		GL-5; MT-1	SAE J2360				342 M-2	MB 235.8 ^Δ	Renault Truck Axles ^Δ	97312 ^Δ	DAF Rear axle without hub reduction; Rear axle with hub reduction Dana Corporation Spicer Axle Division SHAES 256 Eaton Corporation E500 PS-163 Iveco Axles ^Δ Mack GO-J Meritor 0-76N Extended Drain Scania STO 1.0		TE-ML 05B ^Δ ; TE-ML 07A ^Δ ; TE-ML 12B ^Δ ; TE-ML 17B ^Δ ; TE-ML 19C ^Δ ; TE-ML 21B ^Δ		ZF Lenksysteme: TE-ML 08	
Multigear SAE 80W-140, 80W-90		GL-4; GL-5; MT-1	SAE J2360 (80W-90*, 80W-140 ^Δ)				341 Type E2 (80W-90); 341 Type Z2 (80W-90); 342 Type M2 (80W-90); 3343 Type M (80W-90)*	MB 235.0 (80W-90) ^Δ			DAF Gearbox oil for ZF gearboxes (80W-90); Gearbox oil for Eaton gearboxes (80W-90)*; Rear axle with hub reduction (80W-90)*; Rear axle without hub reduction (80W-90*, 80W-140 ^Δ); Driven front axle (80W-140 ^Δ); Front axle hubs (80W-140 ^Δ) Scania STO 1.0		TE-ML 02B (80W-90); TE-ML 05A (80W-90, 80W-140)*; TE-ML 07A (80W-90, 80W-140)*; TE-ML 08 (80W-90, 80W-140)*; TE-ML 12E (80W-90)*; TE-ML 12L (80W-90); TE-ML 12M (80W-90); TE-ML 16B (80W-90); TE-ML 16D (80W-140)*; TE-ML 17B (80W-90); TE-ML 19B (80W-90); TE-ML 21A (80W-90, 80W-140)*			
Geartex EP-A SAE 80W		GL-4					341 Type E1; 341 Type Z1 ^Δ ; 341 Type Z2	MB 235.1			US Military MIL-L-2105*		TE-ML 02A ^Δ ; TE-ML 02B ^Δ ; TE-ML 08 ^Δ ; TE-ML 17A;			
Geartex EP-B SAE 85W-90		GL-5					342 Type M1	MB-Approval 235.0		97310-90*		TE-ML 12A ^Δ ; TE-ML 05A ^Δ ; TE-ML 07A ^Δ ; TE-ML 16C; TE-ML 17B; TE-ML 19B; TE-ML 21A				
Geartex EP-C SAE 80W-90, 85W-140		GL-5					342 Type M1 (80W-90) ^Δ	MB 235.0 (80W-90) ^Δ		97310-90 (80W-90)*; 97310-91 (85W-140)*	US Military MIL-L-2105D*	TE-ML 05A ^Δ ; TE-ML 07A ^Δ ; TE-ML 08 ^Δ ; TE-ML 12A ^Δ ; TE-ML 16B (80W-90); TE-ML 16D (80W-140); TE-ML 17B (80W-90); TE-ML 19B (80W-90, 85W-140 ^Δ); TE-ML 21A				
Geartex LS SAE 85W-90		GL-5										TE-ML 05C; TE-ML 12C; TE-ML 16E; TE-ML 21C				

Transmission fluids, Hydraulic oils, Greases and Speciality fluids continued overleaf

^Δ 'Chevron Recommended'. * Performance – product is either (i) not currently formally approved or certified by the OEM or Industry Standard Organisation; (ii) self-certified; or (iii) was formally approved against an OEM specification which is now obsolete. However, in Chevron's opinion the product is recommended and suitable for use in applications where a product of this specification is required.

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	ACEA*	API*	Other	Caterpillar*	Ford	GM Dexron	MAN	Mercedes-Benz	Renault	Volvo	Other	Allison	ZF	Voith	Other
TRANSMISSION FLUIDS															
Textran HD SAE 10W, 30, 50				T0-4						97305-90 (50)*	Eaton Fuller/Roadranger manual transmissions (30, 50) [^] Komatsu KES 07.868.1 Meritor Rockwell transmissions (50) [^]	C-4* (10W, 30)	TE-ML 03C (10W, 30); TE-ML 07F (30)		
Synthetic ATF Heavy Duty					Mercon V	IIIH*	339 Type V1; 339 Type V2; 339 Type Z2	MB 236.91 [^]		97341		C-4; TES-295 [^] ; TES-389	TE-ML 14C [^] ; TE-ML 04D; TE-ML 14B; TE-ML 16L	55.6335.3x; 55.6336.3x	
ATF HD-389					Mercon*							C-4 (30092004); TES-389 (32202007)			
Texamatic 7045E				T0-2	Mercon*	IIIG*						C-4*	TE-ML 04D; TE-ML 09*; TE-ML 17C		Aisin Warner: T-III*
Texamatic 4291				T0-2 [^]		IID*	339 Type V1; 339 Type Z1	MB 236.7; MB 236.5 [^] ; MB 236.2 [^]				C-4*	TE-ML 03D; TE-ML 04D; TE-ML 11A; TE-ML 14A; TE-ML 17C; TE-ML 09*	55.6335.xx	
HYDRAULIC OILS															
Rando HDZ 22, 32, 46, 68, 100			DIN 51524-3* ISO 11158 L-HV* ASTM D6158, HV* JCMAS HK-1*												Arburg* Bosch Rexroth* Eaton-Vickers I-286-S; M-2950-S; 35VQ25A (ISO 32, 46, 68) Frank Mohn Framo hydraulic cargo pumping* MAG Cincinnati, Cincinnati Machine P 68 (ISO 32); P 70 (ISO 46); P 69 (ISO 68) Parker Hannifin (Denison) HF0; HF1; HF2; using T6H20C pump (ISO 32, 46, 68)
Hydraulic Oil HDZ 15, 22, 32, 46, 68, 100			DIN 51524-3 (ISO 32, 46, 68)* ISO 11158 L-HV (ISO 32, 46, 68)* ASTM D6158, HV (ISO 32, 46, 68)*												Bosch Rexroth* MAG Cincinnati, Cincinnati Machine P 68* (ISO 32); P 70* (ISO 46); P 69* (ISO 68) Eaton Vickers M-2950-S (Mobile applications) (ISO 32, 46, 68)*; I-286-S (Industrial application) (ISO 32, 46, 68)* US Steel 127*; 136*
Rando HD 10, 22, 32, 46, 68, 100, 150			ANSI/AGMA 9005-E02, Industrial Gear Lubrication, for gear lubrication as rust and oxidation inhibited gear oils (ISO 46, 68, 150)* DIN 51524-2: HLP* ISO 11158: Class HM* SAE MS1004 HM (ISO 32, 46, 68, 100)* SEB 181222 (ISO 32, 46, 68, 100)*								General Motors LS2 specification, LH for anti-wear hydraulic fluids (ISO 32, 46, 68)*				Cincinnati Machine: P68 (ISO 32); P70 (ISO 46); P69 (ISO 68) Denison: HF-0; HF-1; HF-2; T6H20 (ISO 32, 46, 68) Eaton Vickers: M-2950-S (Mobile applications) (ISO 32, 46, 68); I-286-S (Industrial application) (ISO 32, 46, 68) Joy HO-S (ISO 68)* US Steel: 127 (ISO 10, 22, 32, 46, 68, 100)*; 136 (ISO 10, 22, 32, 46, 68, 100)*
GREASES															
Starplex EP 2			DIN 51502: KP 2N-30* ISO 6743-09: ISO-L-XCDB 2*							Volvo Corporate Standard STD 1277, 2					
Hytex EP 2 LF			DIN 51502: KP 2 P-20* ISO 6743-09: ISO-L-XBDEB 2*				284: high temperature grease Li-H2	MB 265.1		Volvo Corporate Standard STD 1277,18; STD 1277,2	SKF				
Molytex EP 2			DIN 51502: K PF 2 K-30* ISO 6743-09: ISO-L-XCCEB 2* Association of American Railroads Specification M-929-75							Volvo Corporate Standard STD 1277,65; lubricating grease 97765					
Multifak T EP 2			DIN 51502: KP 2K-20* ISO 6743-09: ISO-L-XBCEB 2*												
Texclad 2			DIN 51502: MPF 2C-10*; KPF 2C-10* ISO 6743-09: ISO-L-XAAIB 2*												
Multifak EP 1, 2			DIN 51502: KP 1 K-30 (EP 1)*; KP 2 K-30 (EP 2)* ISO 6743-09: ISO-L-XCCEB 1 (EP 1)*; ISO-L-XCCEB 2 (EP 2)*				283 (EP 2)	MB-Approval 267 (EP 2)		1277.18 – Multi-purpose grease (EP 2)					
Multifak 264 EP 00/000			DIN 51502: GP 00/000 K-50* ISO 6743-09: ISO-L-XEBEB 00/000*				283 Li-P00	Liefervorschrift DBL 6833.00; Blue Book spec 264							Firma Willy Vogel: Central lubrication Lincoln: Central lubrication Tecalmit: Central lubrication
SPECIALITY FLUIDS															
Brake Fluid DOT 4			FMVSS 116 DOT 3*; 116 DOT 4* SAE J1703*; J1704* ISO 4925 Class 3*; 4925 Class 4*												
Havoline XLC Concentrate, Premixed 40/60, Premixed 50/50			ASTM D3306*		WSS-M97B44-D		324 Type SNF	MB-Approval 325.3			DAF 74002 GM 6277M VW TL 774F				
Havoline GHC Premixed 50/50			ASTM D 3306 [^] ; D 4985 [^] SAE J1034 [^] ; AFNOR NF R 15-601 [^] ONORM V 5123 [^] BS 6580:1992 [^]				324-NF [^]	DBL 7700.20 page 325.0 [^]			BMW N 600 69.0 [^] Deutz H-LV 0161 0188 [^] GM B 040 0240 [^] German Army TL 6850-0038/1 [^] Porsche 924 [^] ; 928 [^] ; 944 [^] ; 968 [^] Saab 6901599 [^] VW TL 774-C [^]				Bez. Reg. Arnsberg; Abtl Bergbau u. Energie (84.12.22.63-2001-2) [^] Jenbacher TA-Nr. 1000-0201 [^] Liebherr Machines Bulle TLV 035; TLV 23009 A [^] MTU MTL 5048 [^]

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