

INDUSTRY STANDARD, ORIGINAL EQUIPMENT 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 VI	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; 3271-1*	MB-Approval 228.31; MB-Approval 228.51	RLD-3; RLD-2; RGD ^Δ ; RXD ^Δ ; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-4; VDS-3; VDS-2 ^Δ	Cummins CES 20081* DAF engines ^Δ Detroit Diesel DDC93K218* Deutz DGC 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	RLD-2; RLD ^Δ ; RXD ^Δ ; RGD ^Δ ; RD ^Δ ; RD-2 ^Δ	VDS-3; VDS-2 ^Δ	Cummins CES 20076*; CES 20077* DAF Trucks Suitable for use in DAF trucks ^Δ Deutz DDC-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	RGD ^Δ ; RXD ^Δ ; RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-3; VDS-2 ^Δ	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	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 DGC III-10 LA Mack EO-0 Premium Plus; EO-N* MTU Oil Category 2.1	TE-ML03K			
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 ^Δ	WSS-M2C171-E ^Δ		M3575	MB-Approval 228.31	RLD-3; RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-4; VDS-3; VDS-2 ^Δ	Cummins CES 20081 (approval pending); CES 20077* DAF engines ^Δ Detroit Diesel DDC93K218* Deutz DGC III-10 LA John Deere JDQ 78X* Mack EO-0 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-3; VDS-2 ^Δ	Cummins CES 20071*; CES 20072*; CES 20077; CES 20078 Deutz DGC III-10 Mack EO-N; EO-M Plus MTU Oil Category 3 Scania LDF-2			Retarder A approval	
Ursa Premium TDS SAE 10W-40	E4; E7	CF					M3277	MB-Approval 228.5	RLD-2; RD ^Δ ; RD-2 ^Δ ; RLD ^Δ	VDS-3; VDS-2 ^Δ	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-3; VDS-2 ^Δ	Deutz DGC IV-10 Mack EO-N MTU Oil Category 3 Iveco 18-1804 (not Euro VI) ^Δ			Retarder B approval	
Ursa Premium TD SAE 10W-40, 15W-40, 20W-50	E7; A3/B4 (10W-40, 15W-40)	CI-4 (10W-40, 15W-40); CH-4 (15W-40); CH-4/SL (20W-50); CE (15W-40 ^Δ); CD (15W-40 ^Δ); CF (15W-40 ^Δ); CF-4 (15W-40 ^Δ); CG-4 (15W-40 ^Δ)	JASO DH-1 (10W-40, 15W-40)*; DHD-1 (10W-40, 15W-40)*	ECF-2 (15W-40)			M3275-1 (10W-40, 15W-40, 20W-50*)	MB-Approval 228.3; MB 229.1 (10W-40, 15W-40)*	RLD-2 (10W-40, 15W-40); RD (10W-40, 15W-40) ^Δ ; RD-2 (10W-40, 15W-40) ^Δ ; RLD (10W-40, 15W-40) ^Δ	VDS-3 (10W-40, 15W-40); VDS-2 (10W-40) ^Δ	Cummins CES 20076; CES 20077; CES 20078 (10W-40, 15W-40); Detroit Diesel DDC93K215 (15W-40)* Deutz DGC III-10 (10W-40, 15W-40) Mack EO-N (10W-40, 15W-40) MTU Oil Category 2 (10W-40, 15W-40)	C4 (10W-40, 15W-40)*; TES 439 (15W-40 ^Δ)			
Ursa Heavy Duty SAE 15W-40	E2; A3/B3 ^Δ	CG-4; SJ; CF-4 ^Δ ; CE ^Δ ; CD ^Δ ; CF ^Δ					M3275-1	MB-Approval 228.3; MB-Approval 229.1		VDS ^Δ	Mack EO-L ^Δ MTU Oil Category 2				
GEAR OILS															
Multigear MTF HD		GL-4					341 Type E4; 341 Type Z4 ^Δ	MB 235.4 ^Δ ; MB 235.11 ^Δ		Transmission Oil 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* US Military MIL-PRF-2105E*		WSL-M2C192-A*						Mack GO-J* Meritor 076-M* Scania STO 1.0; STO 2.0 A		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		Transmission Oil 97312	DAF Gearbox oil for ZF gearboxes; Gearbox oil for Eaton gearboxes*; Rear axle without hub reduction*; Rear axle with 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 E3; 341 Type Z4			Transmission Oil 97305*	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 VI Axles ^Δ	Transmission Oil 97312	Iveco Axles ^Δ DAF Rear axle without hub reduction; Rear axle with hub reduction Dana Corporation Spicer Axle Division SHAES 256 Revision A* Mack GO-J* Meritor 0-76N Extended Drain* Scania STO 1.0		TE-ML 05A ^Δ ; TE-ML 07A ^Δ ; TE-ML 08 ^Δ ; TE-ML 12L ^Δ ; TE-ML 17B ^Δ ; TE-ML 19B ^Δ ; TE-ML 21A ^Δ		
Multigear SAE 80W-90, 80W-140		GL-4; GL-5; MT-1	SAE J2360 (80W-90*, 80W-140*)				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)*; 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	US Military MIL-L-2105*				341 Type E1; 341 Type Z1 ^Δ ; 341 Type Z2	MB 235.1					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 235.0		Transmission Oil 97310*			TE-ML 05A ^Δ ; TE-ML 07A ^Δ ; TE-ML 08 ^Δ ; TE-ML 12A ^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		Transmission Oil 97310*	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 (85W-140); TE-ML 17B (80W-90); TE-ML 19B; 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

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	INDUSTRY STANDARDS			OEM STANDARDS							PROPRIETARY COMPONENT MANUFACTURER STANDARDS				
	ACEA*	API*	Other	Caterpillar*	Ford	GM Dexron	MAN	Mercedes-Benz	Renault VI	Volvo	Other	Allison	ZF	Voith	Other
TRANSMISSION FLUIDS															
Ursa TorqForce SAE 10W, 30, 50				TO-4								C-4 (10W, 30)*	TE-ML 03C (10W, 30)*; TE-ML 07F (50*)		Dana Powershift (10W [^]) Komatsu KES 07.868.1 [^] Komatsu Dresser [^] Tremec/TTC (10W [^]) Vickers 35VQ25 (10W [^])
Synthetic ATF Heavy Duty					Mercon V [^]	IIIH [^]	339 Type V2; 339 Type Z2	MB-Approval 236.9		Transmission Oil 97341		C-4 [^] ; TES-295 [^] ; TES-389 [^]	TE-ML 03D; TE-ML 04D; TE-ML 09 [^] ; TE-ML 14B; TE-ML 14C [^] ; TE-ML 16L; TE-ML 17C; TE-ML 20B	H55.6336.xx	
ATF HD-389					Mercon*	IIIH*						C-4 (30092004); TES-389 (32202007)			
Texamatic 7045E				TO-2 [^]	Mercon [^] ; M2C138-CJ [^] ; M2C166-H [^]	IIIG*					Toyota Type T-III*	C-4*	TE-ML 04D; TE-ML 09*		
Texamatic 4291				TO-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 51 524-3* 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 51 524-3 (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, 100, 150)* DIN 51 524-2: HLP* ISO 11158: Class HM* SAE MS1004 HM (ISO 32, 46, 68, 100)* SEB 181222 (ISO 22, 32, 46, 68, 100)*								General Motors LS2 specification, LH for anti-wear hydraulic fluids (ISO 32, 46, 68)*				Cincinnati Machine P 68 (ISO 32); P 70 (ISO 46); P 69 (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) 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 51 502: KP 2N-30* ISO 6743-09: ISO-L-XCDEB 2*							Lubricating Grease 97720					
Hytex EP 2 LF			DIN 51 502: KP 2 P-20* ISO 6743-09: ISO-L-XBDEB 2*				284: high temperature grease Li-H2	MB-Approval 265.1		Lubricating Grease 97718, 97720					SKF
Molytex EP 2			DIN 51 502: K PF 2 K-30* ISO 6743-09: ISO-L-XCCEB 2* Association of American Railroads Specification M-929-75							Lubricating Grease 97718					
Multifak T EP 2			DIN 51 502: KP 2K-20* ISO 6743-09: ISO-L-XBCEB 2*												
Texclad 2			DIN 51 502: MPF 2C-10*; KPF 2C-10* ISO 6743-09: ISO-L-XAAIB 2*												
Multifak EP 1, 2			DIN 51 502: 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)		Lubricating Grease 97718 (EP 2)					
Multifak 264 EP 00/000			DIN 51 502: 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 Xtended Life Coolant Concentrate, Premixed 40/60, Premixed 50/50			ASTM D3306*; D6210*		Vehicles post 2003 [^] ; WSS-M97B44-D*		324 Type SNF*	MB 325.3 under Daimler DBL 7700.30*		Volvo Construction Equipment (VCE) Diesel Engines [^] ; Volvo Truck Diesel Engines [^]	Chrysler vehicles post 2001 [^] DAF 74002* Detroit Diesel 93K217* Deutz Stationary Diesel Engines [^] GE - Jenbacher Stationary Natural Gas Engines [^] GM Opel Vauxhall vehicles post 1995 [^] GMW 3420* Hino Truck Diesel Engines [^] Isuzu Truck Diesel Engines [^] Kobelco Construction Equipment Diesel Engines [^] Komatsu Construction Equipment Diesel Engines [^] Mack Truck Diesel Engines [^] MTU 2000/4000 Diesel Engines [^] ; MTL 5048* Navistar [™] MAXXFORCE Engines [^] Scania Truck Diesel Engines [^] TMC RP 364 Type 1* VW TL 774F* Wartsila Stationary Diesel Engines [^] European gasoline and diesel automobiles [^] European HD OEMs that require both phosphate-free and nitrite-free formulations [^] Japanese gasoline automobiles, SUVs and Pickup trucks [^] Japanese HD OEMs that require silicate-free formulations [^] Korean gasoline automobiles and SUVs [^]				
Havoline GHC Premixed 50/50			ASTM D3306*; D4985* SAE J1034* AFNOR NF R 15-601*				324 Type NF [^]	DBL 7700.20 page 325.0 [^]			BMW N 600 69.0 [^] GM B 040 0240 [^] Porsche Vehicles built until 1995 [^] Saab 6901599 [^] VW TL 774-C [^]				Bezirksregierung Arnsberg, Abteilung Bergbau und Energie (84.12.22.63-2001-2) [^] Deutz H-LV 0188 [^] Jenbacher TA 1000-0201 [^] Liebherr TLV 035; TLV 23009 A [^] MTU MTL 5048

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