



	ACEA*	API*	OTHER	CATERPILLAR	MAN	MERCEDES-BENZ	RENAULT TRUCKS	VOLVO	OTHER	ALLISON; BOSCH; VOITH; ZF	OTHER
DELO 400 LE SYNTHETIC SAE 5W-40	E9; E7	CJ-4		ECF-3*	M3575*	MB 228.31*	RLD-3	VDS-4	Cummins CES 20081* DAF Standard Drain (Euro 0-VI)* Detroit Diesel DFS 93K218*; DFS 93K215* Mack EO-O Premium Plus MTU Oil Category 2.1*	Allison TES-439	
DELO 400 RDE SAE 10W-30	E9; E7; E6	CI-4	JASO DH-2*		M3477*; M3271-1*	MB-Approval 228.51	RLD-2; RXD*; RGD*	VDS-3	Case New Holland* CLAAS* Cummins CES 20076; CES 20077* DAF Extended Drain (Euro IV-VI)* Deutz DQC IV-18 LA Fendt* Mack EO-N Massey Ferguson* McCormick* MTU Oil Category 3.1 SAME* Valtra*		
DELO 400 RDS SAE 10W-40	E9; E7; E6	CI-4	JASO DH-2*		M3477*; M3271-1*	MB-Approval 228.51	RLD-2; RXD*; RGD*	VDS-3	Case New Holland* CLAAS* Cummins CES 20076; CES 20077* DAF Extended Drain (Euro 0-VI)* Deutz DQC IV-18 LA Fendt* Mack EO-N Massey Ferguson* McCormick* MTU Oil Category 3.1 SAME* Valtra*		
DELO 400 SLK SAE 15W-40	E9	CK-4		ECF-3*	M3775*	MB-Approval 228.31	RLD-3	VDS-4.5	Case New-Holland* CLAAS* Cummins CES 20086 DAF Extended Drain (Euro IV-VI)* Detroit Diesel DFS 93K222 Deutz DQC III-18 LA Fendt* Mack EOS-4.5 Massey Ferguson* McCormick* MTU Oil Category 2.1* SAME* Valtra*		
DELO 400 XLE SAE 10W-30	E9; E6	CK-4; SN PLUS		ECF-3*	M3775; M3575*	MB-Approval 228.51/228.31	RLD-3	VDS-4.5	Case New Holland* CLAAS* Cummins CES 20086* DAF Standard Drain (Euro IV-VI)* Detroit Diesel DFS 93K222; DFS 93K221 Deutz DQC III-18 LA; DQC III-10 LA Fendt* John Deere JDQ 78X* Mack EOS-4.5 Massey Ferguson* McCormick* MTU Oil Category 3.1 SAME* Valtra*	ZF TE-ML 03K*	
DELO 400 XLE HD SAE 10W-40	E9; E7; E6; E4	CJ-4	JASO DH-2*	ECF-3*	M3575*; M3477*; M3271-1*	MB-Approval 228.51/228.31	RLD-3	VDS-4	Case New Holland* Case New Holland MAT 3521* CLAAS* Cummins CES 20081 DAF Extended Drain (Euro 0-VI)* Detroit Diesel DFS 93K218 Deutz DQC IV-10 LA Fendt* Fiat Powertrain (FPT) FPI9 LUBR001 TLS E9* Iveco 18-1804 TLS E9* Mack EO-O Premium Plus Massey Ferguson* McCormick* MTU Oil Category 3.1; Oil Category 2.1* SAME* Scania Low Ash* Valtra*	Voith Retarder B*	
DELO 600 ADF SAE 10W-30	E9; E6	CK-4		ECF-3*	M3775	MB-Approval 228.31	RLD-3	VDS 4.5	Case New Holland* CLAAS* Cummins CES 20086 Detroit Diesel DFS 93K222 Deutz DQC IV-18 LA Fendt* Mack EOS-4.5 Massey Ferguson* McCormick* SAME* Valtra*		
DELO 600 ADF SAE 15W-40	E9; E6	CK-4		ECF-3*	M3775	MB-Approval 228.31	RLD-3	VDS 4.5	Case New Holland* CLAAS* Cummins CES 20086 Detroit Diesel DFS 93K222 Deutz DQC III-18 LA Fendt* Mack EOS-4.5 Massey Ferguson* McCormick* SAME* Valtra*		
DELO GOLD ULTRA E SAE 10W-40	E7; A3/B4; A3/B3	CI-4	Global DHD-1* JASO DH-1*		M3275-1*	MB-Approval 228.3; MB 229.1*	RLD-2	VDS-3	Case New Holland* CLAAS* Cummins CES 20078; CES 20077*; CES 20076*; CES 20072*; CES 20071* DAF Standard Drain (Euro 0-III)* Detroit Diesel DFS 93K215 Deutz DQC III-18 Fendt* Mack EO-N Massey Ferguson* McCormick* MTU Oil Category 2 SAME* Valtra*	Allison C-4*	
DELO GOLD ULTRA E SAE 15W-40	E7; A3/B4; A3/B3	CI-4	Global DHD-1* JASO DH-1*	ECF-2*	M3275-1*	MB-Approval 228.3; MB 229.1*	RLD-2	VDS-3	Case New Holland* CLAAS* Cummins CES 20078; CES 20077*; CES 20076*; CES 20072*; CES 20071* DAF Standard Drain (Euro 0-III)* Detroit Diesel DFS 93K215 Deutz DQC III-10* Fendt* Iveco Euro IV* & V* engines Mack EO-N Massey Ferguson* McCormick* MTU Oil Category 2 SAME* Valtra*	Allison C-4*	
DELO GOLD ULTRA T SAE 10W-40	E7; E4	CI-4	Global DHD-1*		M3277	MB-Approval 228.5	RLD-2	VDS-3	Case New Holland* CLAAS* Cummins CES 20078; CES 20077*; CES 20076*; CES 20072*; CES 20071* DAF Extended Drain (Euro 0-III)* Detroit Diesel DFS 93K215* Deutz DQC III-18 Fendt* Mack EO-N Massey Ferguson* McCormick* MTU Oil Category 3 Scania LDF-2*; LDF* SAME* Valtra*	Voith Retarder A*	

1000 THF		GL-4*		TO-2*				Transmission Oil 97303 (WB 101)	AGCO Improved power fluid 821XL* Case Corporation JIC-145*; JIC-143*; MS 1210 (TCH)*; MS 1209*; MS 1207*; MS 1206* Case New Holland MAT 3540*; MAT 3525*; MAT 3505* Ford ESN-M2C134-D* Ford New Holland FNHA-2-C-201.00* Hitachi Rigid Dump Trucks* International Harvester B6* John Deere JDM J20C* Kubota UDT* Massey Ferguson CMS M1145*; CMS M1143*; CMS M1141*; CMS M1135* Minneapolis-Moline Q-1766B*; Q-1766*; Q-1722* Oliver Q-1705* White Farm Equipment Q-1826*	ZF TE-ML 03E*, 05F*, 17E*, 21F*	Renk Doromat 874A*; 874B*
SUPER UNIVERSAL TRACTOR OIL EXTRA SAE 10W-30, 10W-40		CF; SF; GL-4							Case New Holland MAT 3525* [10W-30] CCMC D4* [10W-40] Ford ESN-M2C159-B1* [10W-30]; ESN-M2C134-D* [10W-30] Ford New Holland FNHA-2-C-201.00* [10W-30] John Deere JDM J27 [10W-30*, 10W-40*]; JDM J20C* Massey Ferguson CMS M1145 [10W-30, 10W-40*]; CMS M1144 [10W-30*, 10W-40*]; CMS M1139* [10W-30]; CMS M1135* [10W-30] New Holland NH 030C* [10W-30]; NH 410B* [10W-30]	Allison C-4* [10W-40] ZF TE-ML 06B*, 07B*	

CLARITY HYDRAULIC OIL AW 32, 46, 68			ASTM D6158: HM* DIN 51524-2: HLP* ISO 11158: L-HM*						Parker Hannifin (Denison) HF-2* & HF-0* testing requirements of T5D		Eaton (Vickers) 35VQ25* (pump test); M-2950-S* (mobile) & I-286-S* (stationary) hydraulic systems Fives Cincinnati P-68* [32]; P-69* [68]; P-70* [46]
CLARITY SYNTHETIC HYDRAULIC OIL AW 32, 46, 68			ASTM D6158: HV* DIN 51524-3: HVL* ISO 11158: L-HV*								Arburg plastic extruders* Eaton (Vickers) 35VQ25* (pump test); M-2950-S* (mobile) & I-286-S* (stationary) hydraulic systems Fives Cincinnati P-68 [32]; P-69 [68]; P-70 [46] Frank Mohn (Framo) hydraulic cargo pumping* Hitachi/John Deere Construction JCMAS HK* Krauss-Maffei Kunststofftechnik*
HYDRA 32, 46			ISO 15380: L-HEES* Swedish Standard SS 15 54 34 (environmentally acceptable)* VDMA 24568: HEES*								
HYDRAULIC OIL HDZ 32, 46, 68			ASTM D6158: HV* DIN 51524-3* ISO 11158: L-HV* U.S. Steel (AISI) 127; 136*								Bosch Rexroth* Eaton (Vickers) M-2950-S* (mobile) & I-286-S* (stationary) hydraulic systems Fives Cincinnati P-68* [32]; P-69* [68]; P-70* [46]



ACEA*	API*	OTHER	CATERPILLAR	MAN	MERCEDES-BENZ	RENAULT TRUCKS	VOLVO	OTHER	ALLISON; BOSCH; VOITH; ZF	OTHER
		ANSI/AGMA 9005-F16: R&O* [46, 68] DIN 51524-2: HLP* ISO 11158: L-HM* SAE MS1004: HM* SEB 181222* U.S. Steel (AIST) 136*; 127*						General Motors GM LS2 specification; GM LH* Parker Hannifin (Denison) HF-2; HF-1; HF-0; T6H20		Bosch Rexroth RDE 90245; HVLP (HV); HLP (HM) Eaton (Vickers) M-2950-S (mobile) & I-286-S (stationary) hydraulic systems Fives Cincinnati P-68 [32]; P-69 [68]; P-70 [46] Joy HO-S* [68]
		AFNOR NF E48-603: HV* DIN 51524-3* ISO 11158: L-HV*					Hydraulic Oil 98620	Ford M-6C32* General Motors GM LH-15-01*; GM LH: 06-01*; GM LH-04-01* Parker Hannifin (Denison) HF-2*; HF-1*; HF-0*		Bosch Rexroth RE 90220* Eaton (Vickers) M-2950-S* (mobile) & I-286-S* (stationary) hydraulic systems Fives Cincinnati P-68* [32]; P-69* [68]; P-70* [46]
		ANSI/AGMA 9005-F16: R&O* [32, 46, 68, 100] ASTM D6158: HV*, HM* DIN 51524-2: HVL P*; 51524-2: HLP* ISO 11158: L-HV*, L-HM* JCMAS HK: 32* [32], 46* [46] SAE MS1004: HV* [22, 32, 46, 68, 100], HM* [22, 32, 46, 68, 100] U.S. Steel (AIST) 127* [32, 46, 68]; 126* [32, 46, 68]		Truck & Bus OEM engine specifications [15]			Hydraulic Oil 98611 [32, 46, 68]; Hydraulic Oil 98608* [32, 46, 68]	Parker Hannifin (Denison) HF-2 [32, 46, 68]; HF-1 [32, 46, 68]; HF-0 [32, 46, 68]	ZF TE-ML 04R (ZF003576) [32, 46]	Arburg injection moulding [46] Bosch Rexroth RDE 90245; HVLP (HV) [32, 46, 68]; RA 9221a* [32, 46, 68]; RA 90220a* [32, 46, 68]; RE 90221a* [32, 46, 68]; RE 90220a* [32, 46, 68] Eaton (Vickers) 35VQ25A* [32, 46, 68] (pump test); M-2950-S* [32, 46, 68] (mobile) & I-286-S* [32, 46, 68] (stationary) hydraulic systems Fives Cincinnati P-68* [32]; P-69* [68]; P-70* [46] Frank Mohn (Framo) hydraulic cargo pumping [46]
		GL-5; GL-4; MT-1	SAE J2360 NATO O-226*		342 Type S1; 341 Type Z2; 3343 Type S*; 341 Type E3^	MB-Approval 235.8	Transmission Oil 97312	DAF Gearbox oil for Eaton gearboxes*; Gearbox oil for ZF gearboxes*; Rear axle with hub reduction*; Rear axle without hub reduction* Detroit Diesel DFS 93K219.1	Bosch TE-ML 08* ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF003353); TE-ML 07A*, 12B*; TE-ML 05B*, 21B^	
		GL-5							ZF TE-ML 05C, 12C, 16E, 21C (ZF000810)	
		DIN 51502: KPE2 G-40* European Ecolabel ISO 12924: L-XD(F)BIB-2* Swedish Standard SS 15 54 70 VGP 2013 compliance*								
		DIN 51502: KP2 N-30* ISO 6743-9: L-XCDHB-2* NLGI GC-LB*			MB 265.1*		Lubricating Grease 97720*	Mack GC-G*		
		DIN 51502: G00 H-20* [00], K1 H-20* [1] ISO 6743-9: L-XBBAA-00* [00], L-XBBAA-1* [1]								
		Association of American Railroads M-929-75 DIN 51502: KPF2 K-30* ISO 6743-9: L-XCCEB-2*					Lubricating Grease 97765			
		DIN 51502: MPF 2C-10*, KPF 2C-10* ISO 6743-9: L-XAAB-2*								
		ASTM D6210*; D3306* UNE 26-361-88/1*					VCS-2^	CLAAS* DAF/Leyland Trucks^ Jaguar Land Rover STJLR.03.5212* John Deere Power Systems* Perkins engines* UD Trucks*		
		ASTM D6210*		324 Type SNF [Premixed 50/50, Premixed 40/60]; MAN Energy Solutions Engine 175D	MB-Approval 325.3 [Concentrate]; MB-Approval 326.3 [Premixed 50/50]		VCS 418-0001*; Volvo Construction Equipment (VCE) Diesel Engines*; Volvo Truck Diesel Engines^	Chrysler Vehicles post 2001^ Cummins CES 14439 DAF 74002 Detroit Diesel DFS 93K217 Deutz DQC CB-14; Stationary Diesel Engines^ European HD OEMs that require both phosphate-free and nitrite-free formulations^ Ford WSS-M97B44-D*; Vehicles post 2003^ General Motors Vehicles post 1995^ Hino Truck Diesel Engines^ Isuzu Truck Diesel Engines^ Japanese HD OEMs that require silicate-free formulations^ Jenbacher TA 1000-0200 Kobelco Construction Equipment Diesel Engines^ Komatsu Construction Equipment Diesel Engines^ Mack Truck Diesel Engines^ MaK (Caterpillar)* [Concentrate] MTU 2000 & 4000-01/02/03 series MWM (Caterpillar Energy Solutions) TR-2091 GR.2 Navistar MAXXFORCE Engines^ TMC RP 364 Type 1* Wärtsilä Stationary Diesel Engines^		
				248*; MAN Energy Solutions D36 5600*				Jenbacher TA 1000-0200 MaK (Caterpillar)* MTU 2000 & 4000-01/02/03/05 series MWM (Caterpillar Energy Solutions) TR0199-99-2091/12 Wärtsilä 32-9011*		

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