

INDUSTRY STANDARD, ORIGINAL EQUIPMENT MANUFACTURER (OEM) AND PROPRIETARY COMPONENT MANUFACTURER SPECIFICATIONS FOR THE AGRICULTURAL INDUSTRY



Details correct: September 2018

	INDUSTRY STANDARDS			OEM STANDARDS							PROPRIETARY COMPONENT MANUFACTURER STANDARDS			
	ACEA*	API*	OTHER	CATERPILLAR*	GM DEXRON	MAN	MERCEDES-BENZ	RENAULT TRUCKS	VOLVO	OTHER	ALLISON	ZF	VOITH	OTHER
ENGINE OILS														
DELO 400 XLE SAE 10W-30	E6; E9	CK-4; CJ-4; CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^] ; SN	JASO DH-2*	ECF-3		M3575*	MB-Approval 228.51/228.31	RLD-4; RLD-3 [^] ; RLD-2 [^] ; RXD [^] ; RLD [^] ; RD-2 [^] ; RD [^]	VDS-4.5; VDS-4 [^] ; VDS-3 [^] ; VDS-2 [^]	Cummins CES 20086 Detroit Diesel DFS 93K222 DAF Extended Drain (Euro VI engines) [^] Deutz DQC III-10 LA Mack EO5-4.5 MTU Oil Category 2.1*		TE-ML 03K		
DELO 400 MGX SAE 15W-40	E9; E7	CJ-4; CI-4 Plus; CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^] ; SM	JASO DH-2*	ECF-2; ECF-3; 3600 series engines [^]		M3575	MB-Approval 228.31	RLD-3; RLD-2 [^] ; RLD [^] ; RD-2 [^] ; RD [^]	VDS-4; VDS-3 [^] ; VDS-2 [^]	Cummins CES 20071 [^] ; CES 20072 [^] ; CES 20077 [^] ; CES 20081 DAF Standard Drain (Euro 0 up to Euro VI engines) [^] Detroit Diesel DDC93K218 Deutz DQC III-10 LA Ford WSS-M2C171-E [^] Mack EO-0 Premium Plus; EO-N [^] MTU Oil Category 2.1		TE-ML 04C		
DELO 400 XLE HD SAE 10W-40	E4; E6; E7; E9	CJ-4; CI-4 Plus; CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^]	JASO DH-2*	ECF-3		M3477; M3575; M3271-1	MB-Approval 228.51/228.31	RLD-3; RLD-2 [^] ; RGD [^] ; RXD [^] ; RLD [^] ; RD-2 [^] ; RD [^]	VDS-4; VDS-3 [^] ; VDS-2 [^]	Cummins CES 20081 DAF Extended Drain (Euro III, IV, V and VI engines) [^] Detroit Diesel 93K218 [^] Deutz DQC-IV-10 LA Iveco Euro V and VI [^] MTU Oil Category 3.1; Oil Category 2.1* Mack EO-0 Premium Plus Scania Low Ash			Retarder B	
DELO GOLD ULTRA E SAE 15W-40	E7; A3/B4	CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^] ; CE [^] ; CD [^]	JASO DH-1* Global DHD-1*	ECF-2		M3275-1	MB-Approval 228.3; MB-Approval 229.1 [~]	RLD-2; RLD [^] ; RD-2 [^] ; RD [^]	VDS-3; VDS-2 [^]	Cummins CES 20076 [^] ; CES 20077 [^] ; CES 20078; CES 20071 [^] ; CES 20072 [^] DAF (Euro II and III engines) [^] Detroit Diesel DDC93K215 Deutz DQC III-10 Iveco Euro IV and V engines [^] Mack EO-N MTU Oil Category 2	C4 [^] ; TES 439 [^]			
DELO 400 RDS SAE 10W-40	E6; E7; E9	CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^]	JASO DH-2*			M3477; M3271-1	MB-Approval 228.51	RLD-2; RXD [^] ; RGD [^] ; RLD [^] ; RD-2 [^] ; RD [^]	VDS-3; VDS-2 [^]	Cummins CES 20076; CES 20077* DAF Extended Drain (Euro III, IV, V and VI engines) [^] Deutz DQC-IV-10 LA Mack EO-N MTU Oil Category 3.1				
DELO GOLD ULTRA T SAE 10W-40	E4; E7	CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^]	Global DHD-1 [^]			M3277	MB-Approval 228.5; MB 235.27*	RLD-2; RLD [^] ; RD-2 [^] ; RD [^]	VDS-3; VDS-2 [^]	Cummins CES 20071 [^] ; CES 20072 [^] ; CES 20077 [^] ; CES 20078 DAF Extended Drain (Euro III and IV engines) [^] Detroit Diesel 93K215 [^] Deutz DQC III-10 Mack EO-M Plus [^] ; EO-N MTU Oil Category 3 Scania LDF-2			Retarder A	
DELO GOLD ULTRA E SAE 10W-40	E7; A3/B4	CI-4; CH-4; CG-4 [^] ; CF-4 [^] ; CF [^]	JASO DH-1* Global DHD-1*			M3275-1*	MB-Approval 228.3; MB-Approval 229.1 [~]	RLD-2; RD [^] ; RD-2 [^] ; RLD [^]	VDS-3; VDS-2 [^]	Cummins CES 20071 [^] ; CES 20072 [^] ; CES 20076 [^] ; CES 20077 [^] ; CES 20078 DAF (Euro II and III engines) [^] Detroit Diesel DDC 93K215 Deutz DQC III-10 Mack EO-N MTU Oil Category 2	C4*			
UNIVERSAL TRACTOR OILS														
TEXACO 1000 THF		GL-4 [^]		TO-2 [^]					Transmission Oil 97303; WB 101	AGCO Improved power fluid 821XL [^] Case Corporation JIC-143 [^] ; JIC-145 [^] ; MS 1206 [^] ; MS 1207 [^] ; MS 1209 [^] ; MS1210 (TCH) Case New Holland CNH MAT 3505 [^] ; CNH MAT 3525 [^] Ford New Holland ESN-M2C134-D [^] ; FNHA-2-C-201.00 [^] International Harvester B6 [^] John Deere JDM J20C [^] Kubota UDT [^] Massey Ferguson CMS M1135 [^] ; CMS M1141 [^] ; CMS M1143 [^] ; CMS M1145 [^] Minneapolis-Moline Q-1722 [^] ; Q-1766 [^] ; Q-1766B [^] Oliver Q-1705 [^] White Farm Equipment Q-1826 [^]		TE-ML 03E; TE-ML 05F; TE-ML 17E; TE-ML 21F		Renk Doromat 874A [^] ; 874B [^]
SUPER UNIVERSAL TRACTOR OIL EXTRA SAE 10W-30, 10W-40		CE [^] ; SF [^] ; GL-4 [^]	US Military MIL-L-2104D [^] ; MIL-L-46152B [^]							Case New Holland CNH MAT 3525 [^] CCMC D4 [^] Ford ESN-M2C134-D [^] ; ESN-M2C159-B1 [10W-30 [^] ; 10W-40 [^]] Ford New Holland FNHA-2-C-201.00 [^] John Deere JDM J20C [^] ; JDM J27 [^] Massey Ferguson CMS M1135 [^] ; CMS M1139 [^] ; CMS M1144 [10W-30 [^] ; 10W-40 [^]]; CMS M1145 [10W-30 [^] ; 10W-40 [^]] New Holland NH 030C [10W-30 [^] ; 10W-40 [^]]; NH 410B [^]	C-4 [^]	TE-ML 06B [^] ; TE-ML 07B [^] [10W-40]		
HYDRAULIC FLUIDS														
CLARITY SYNTHETIC HYDRAULIC OIL AW 32, 46			ASTM D6158; HV* DIN 51524/3; HVLP* ISO 11158; L-HV*											Arburg plastic extruders [^] Eaton-Vickers 35VQ25A [^] ; M-2950-S [^] ; I-286-S [^] Frank Mohn, Framo hydraulic cargo pumping [^] Hitachi/John Deere Construction JCMAS HK [^] Krauss-Maffei Kunststofftechnik [^] MAG Cincinnati Cincinnati Machine P-68 [32]; Cincinnati Machine P-70 [46]
RANDO HEES 46			DIN ISO 15 380 HEES* Ecotabel [registration-no: DE/027/087]; Positive Oil List for MIA-Vamil-regulations Swedish-Standard: 15 54.34 Environmentally acceptable [www.sp.se/km/hydraul] SS 155434 AAV 46 Environmentally acceptable* VDMA 24568; HEES*											
RANDO ASHLESS 8401			DIN 51524/3* Swedish Army Standard FSD 8401*						Hydraulic Oil 98607*					
RANDO HDZ 15, 22, 32, 46, 68			DIN 51524-3 HVLP* ISO 11158 Knacc HV* [15, 32, 46, 68] ASTM D6158, HV* [32, 46, 68]											Arburg [46] Cincinnati Machine P-68* [32]; P-70* [46]; P-69* [68] Eaton Vickers M-2950-S [Mobile applications] [32, 46, 68]; I-286-S [Industrial applications]* [32, 46, 68] Bosch Rexroth RE 90220* US Steel 127; 136*

Continued overleaf

[^] Chevron Recommended – in Chevron’s opinion the product is suitable for use in applications where a product of this specification is required. [~] Obsolete specification.

* 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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	INDUSTRY STANDARDS			OEM STANDARDS							PROPRIETARY COMPONENT MANUFACTURER STANDARDS				
	ACEA*	API*	OTHER	CATERPILLAR*	GM DEXRON	MAN	MERCEDES-BENZ	RENAULT TRUCKS	VOLVO	OTHER	ALLISON	ZF	VOITH	OTHER	
HYDRAULIC FLUIDS <i>Continued</i>															
HYDRAULIC OIL HDZ 32, 46, 68			DIN 51524-3* ISO 11158 L-HV* ASTM D6158; HV*											MAG Cincinnati Cincinnati Machine P-68 [32]; Cincinnati Machine P-70 [46]; Cincinnati Machine P-69* [68] Eaton-Vickers M-2950-S (Mobile applications); I-286-S (Industrial application)* Bosch Rexroth* US Steel 127; 136*	
HYDRA 32, 46			DIN ISO 15 380 HEES* Swedish-Standard-15 54 34 [www.sp.se/km/hydraul]; SS 15 54 34* VDMA 24568; HEES*												
GEAR OILS															
DELO GEAR TDL SAE 80W-90, 80W-140		GL-4; GL-5; MT-1	SAE J2360 [80W-90*, 80W-140*]			341 Type Z2 [80W-90]; 342 Type M2 [80W-90]; 3343 Type M [80W-90*]; 341 Type E2 [80W-90*]	MB 235.0 [80W-90*]		Transmission Oil 97321	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*]; Driven front axle [80W-140*]; Front axle hubs [80W-140*] Scania STO 1:0		TE-ML 02B [80W-90]; TE-ML 05A [80W-90, 80W-140*]; TE-ML 07A*; 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 17H [80W-90]; TE-ML 19B [80W-90]; TE-ML 21A [80W-90, 80W-140*]		Bosch TE-ML 08*	
DELO SYN-TDL SAE 75W-90		GL-4; GL-5; MT-1	SAE J2360 NATO 0-226*			341 Type E3*; 341 Type Z2; 342 Type S1; 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 05A*; TE-ML 05B; TE-ML 07A*; TE-ML 12B*; TE-ML 12L; TE-ML 12N; TE-ML 16F; TE-ML 17B; TE-ML 19C; TE-ML 21A*; TE-ML 21B		Bosch TE-ML 08*	
GEARTEX LS SAE 80W-90		GL-5										ZF TE-ML 05C; TE-ML 12C; TE-ML 16E*; TE-ML 21C			
GREASES															
DELO STARPLEX EP 2			DIN 51 502; KP 2 N-30* ISO 6743-09; ISO-L-XCDHB 2* NLGI Service Category GC-LB*				MB 265.1*		Lubricating Grease 97720*	Mack GC-G*					
NOVATEX EP 2			DIN 51 502; KP 2 K-30 ISO 6743-09; ISO-L-CCIB2											Hoesch Rothe Erde All plastic parts used by Hoesch Rothe Erde POM HDPE Perbunan Viton	
MOLYTEX EP 2			DIN 51 502; KPF 2 K-30* ISO 6743-09; ISO-L-XCCEB2* Association of American Railroads Specification M-929-75						Lubricating Grease 97765						
TEXCLAD 2			DIN 51 502; MPF 2C-10*; KPF 2C-10* ISO 6743-09; ISO-L-XAAIB 2*												
ANTIFREEZE/COOLANTS															
DELO XLC ANTIFREEZE/COOLANT CONCENTRATE, PREMIXED 50/50			ASTM D6210*			324 Type SNF*	MB-Approval 325.3 [Concentrate]		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^ Ford Vehicles post 2003*; WSS-M97B44-D* GE Jenbacher Stationary Natural Gas Engines^ GM Opel Vauxhall Vehicles post 1995^ 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* Wärtsilä Stationary Diesel Engines^ European HD OEMs that require both phosphate-free and nitrite-free formulations^ Japanese HD OEMs that require silicate-free formulations^					
DELO XLI CORROSION INHIBITOR CONCENTRATE						D36 5600*; 248*				MWM TR0199-99-2091/12				MTU MTL 5049* MaK*	

For the latest information on our products, please refer to the Product Data Sheet (PDS) which can be found at cglapps.chevron.com/msdspds/HomePage.aspx

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