



## Service Information

### FENDT Lubricant Chart

#### Xylon - Frontaxle Oil Quantities

**Group**  
**11**

**Date**  
**01.03.97**

Replaces Service Info 5/93

In the operators manual of every Fendt tractor or toolcarrier are the necessary oils and fluids for safe operation specified by the general terms of CCMC, API, SAE etc. The following lubricants are meeting these specifications and are released to be used in Fendt tractors or toolcarriers.

#### Permitted oils and fluids per trade names

##### Engine (Favorit 800, 900, Xylon)

- Mono grade oils	page 3
- Multi grade oils	page 3
- SHPD - oils (Super High Performance Diesel)	page 5
- Antifreeze with inhibitor	page 6

##### Powershift transmission (Favorit 500, 800, Xylon)

##### Vario transmission (Favorit 900)

- STOU (Super Tractor Oil Universal)	page 7
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##### Manual transmission (Farmer 200, 300, Toolcarrier)

##### Rear axles

- Transmission oil API - GL 5 (Hypoid)	page 7
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##### Front axle

- Transmission oil API - GL 5 (Hypoid) with LS - additives	page 8
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##### Lubricants of Favorit 500

page 9

This Fendt lubricant chart remains valid until a new edition is released.

For own safety reasons and environmental protection it is important to use only the permitted lubricants and store them correctly. Drained lubricants and used filters must be treated as per national laws and manufacturers recommendations.

#### Important note:

For powershift transmission and differential of Favorit 500, 800 and Xylon and for the Vario transmission and differential of Favorit 900 is only STOU oil permitted. Other oils like special transmission oils as per API-GL 4 or GL 5 may cause damages of the transmission through their additives.

From the following chassis # onwards, manual FENDT transmissions are filled with special - hypoid - transmission oils as per API - GL 5 (generally from assembly year 1992)

205../1325	345../1244	158../20001	307../J0001
206../2191	360../1613	162../20001	308../J0001
208../1171	380../4599	168../20001	309../J0001
247../0597	380../91986	175../20001	310../J0001
248../1196	390../0001	168../20001	311../J0001
294../0395	395../0001	178../20001	312../J0001
295../1102	231../0001	186../20001	
296../2327		192../20001	
297../3647		198../20001	
		199../00001	

Special hypoid transmission oil may be used in transmissions below the above mentioned chassis #, if during a transmission repair new synchron parts were fitted (synchron rings with 6 cross slots).

Transmission oils with LS - additives are not permitted in synchronized gearboxes.

Please note the different fluids for clutch and brake operation systems:

	Clutch Actuation System	Brake Actuation System
<b>Favorit 500</b>	Hydraulic Fluid Pentosin CHF 11 S (X902.011.622)	Only Non Minearal Brake Fluid as per SAE J 1703 resp. FMVSS 116 DOT 4
<b>Favorit 800/900, Xylon</b>	Hydraulic Fluid Pentosin CHF 11 S (X902.011.622)	Hydraulic Fluid Pentosin CHF 11 S (X902.011.622)
<b>Xylon till chassis # 0199</b>	Hydraulic Fluid Pentosin CHF 11 S (X902.011.622)	Only Non Minearal Brake Fluid as per SAE J 1703 resp. FMVSS 116 DOT 4
<b>Farmer 200, 300, GT 345 - 395</b>	Only Non Minearal Brake Fluid as per SAE J 1703 resp. FMVSS 116 DOT 4	Only Non Minearal Brake Fluid as per SAE J 1703 resp. FMVSS 116 DOT 4

#### Xylon - Frontaxle oil quantity

The oil in the frontaxle differential has been increased to 8.5 l. On axles with 6.5 l oil volume to the overflow bore additional 2 litres of oil must be filled up (filling bore at the right side of the front axle housing). Oil level must be 60 mm below the surface area of the filling bore.

## Lubricant Chart

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### Monograde Oils for diesel engines (MAN 270/11.96)

Agip Petroli S.P.A., Rom	Agip Diesel Sigma S	20W-20 oder 30
Agip Schmiertechnik Autol-Werke GmbH	Autol CPM-HD S 3	20W-20 oder 30
Aral AG	Aral Turbo/ol Motorol	20W-20 oder 30
Avia Mineralöl AG	AVIA Special HDC	20W-20 oder 30
Bösch & Bodecker	Turbo HD Motorenöl CII	20W-20 oder 30
Castrol (UK) Ltd. / England	Castrol Delo 500	30 oder 40
Castrol Ltd. / England	Castrol CRD-D3	20W-20 oder 30
Compañia Española de Petroleos S.A. / Spanien	Cepsa RETTO Super Serie 3	30 oder 40
DEA Mineralöl AG	DEA Cronos Super LubriVicol Supreme HD-O	20W-20 oder 30 20W-20 oder 30
Deutsche Shell AG	Shell Rotella MX Shell Rimula X Monograde MAC HD Superior	20W-20 oder 30 20W-20 oder 30 20W-20 oder 30
ELF Lub / Frankreich	Antar Grapholite MS ELF Performance Super ELF Performance XC ELF Performance XR ELF Performance 3D ELF Disela MT Antar Traxolite Z	20W-20 oder 30 20W-20 oder 30 20W-20 oder 30 20W-20, 30 oder 40 30 oder 40 20W-20 oder 30 20W-20 oder 30
Ertol S.A. / Spanien	Ertol Super Serie 2000	30 oder 40
Esso AG	Essolube XD-3-Monograde	30 oder 40
GALP / Portugal	GALP Diesel	30
Mineralöl-Raffinerie Dolberg GmbH	Terra Neo Motorol Extra C Parasol Motorol Extra C Maco HD-Motorenöl Extra C	20W-20 oder 30 20W-20 oder 30 20W-20 oder 30
MOBIL Öl AG	Mobil Delvac 1300 Robing Motorenöl 300 Extra Monograde 300	20W-20 oder 30 20W-20 oder 30 20W-20 oder 30
OMV Aktiengesellschaft	OMV Truck 20W/20 OMV Truck 30	20W-20 30
Petrol Öls / Türkei	P.O. Süperol	30
Petromin / Saudi Arabien	Petromin Super Diesel Engine Oil HD 3	20W-20, 30, 40 oder 50
Rafineria Górgona / Polen	RSB HPDO	40
Shell International	Shell Rotella MX Shell Rimula X Monograde Shell Slicks	20W-20 oder 30 30 oder 40 30 oder 40
Slovaň / Slowakische Republik	Slovaň Mafit Extra	30
Sodol Israel Ltd.	Sadol X-400	30
SRS GmbH Salzbergen	Wintershall Rekord	20W-20, 20W-30 30, 40 oder 50
Statol Norge AS / Norwegen	Statol Dieselway D 4	20W-20 oder 30
Texaco Technology Europe	Ursa Super LA Ursa DMO	20W-30 oder 30 20W-20 oder 30
Valvoline International	Valvoline Super Fleet	20W-20 oder 30
Vebe Öl AG	Vebe Movara Extra-Motorenöl	20W-20 oder 30
Veodol International Ltd.	Veodol Diesel HDC	20W-20 oder 30
YACCO S.A. / Frankreich	Yacco Transpro YAS 3 Yacco Transpro MAS 3	20W-20 30

### Multigrade Oils for diesel engines (MAN 271/11.96)

Abu Dhabi National Oil	Adnoc High Performance Super Diesel Engine Oil (HPSC)	15W-40
Addinol Mineralöl GmbH	Addinol Super Diesel plus MD 1945 P Addinol Super star MX 1547	15W-40 15W-40
Agip Petroli S.P.A., Rom	Agip Sigma TFE Agip Universal Motoroil Agip Sigma Multi	10W-40 15W-40 15W-40
Agip Schmiertechnik Autol-Werke GmbH	Autol Extra CPM HD S 3 Autol Spezial CPM HD S 3 Autol Valve Turbo FE	15W-40 15W-40 10W-40
Aral AG	Aral Multi Turbo/ol Motorol Aral Öl P 247 Aral Multi Turbo/ol DLX Motorol	15W-40 oder 20W-50 15W-40 10W-40
Ashland Oil Nederland B.V.	A.P.E. Turbo Guard DOK	15W-40
Avia Mineralöl AG	Avia Multi HDC Avia Multi CFE Plus Avia Multi HDC Extra Avia Multi CFE	15W-40 10W-40 15W-40 10W-40
BayWa AG	BayWa Motorenöl Renommasse Turbo 2000 BayWa Motorenöl Universal HD 1040 MC BayWa Motorenöl Superior 1540 BayWa Motorenöl HDC 1540	10W-40 10W-40 15W-40 15W-40
Bösch & Bodecker	Turbo HD Motorol CII	15W-40
BP Öl Deutschland GmbH	LateXol/Motorenöl 1040 BP Vico Diesel Vanelus FE Vanelus L 1530 Vanelus Multigrad Econo-Vanelus HDC BP Vanelus FE Extra Econo-Vanelus HDE Vanelus Super Turbo	10W-40 16W-40 10W-40 16W-30 15W-40 10W-40 10W-40 10W-40 15W-40
BP Öl Deutschland GmbH	BP Super V Turbo	15W-40
BP Öl International	BP Vanelus FE BP Vanelus CS Multigrade	10W-40 15W-40
Castrol Service Ltd. / England	Delo 500 Multigrade Castrol Delo 600 Multigrade	15W-40 15W-40
CALPAM	PAM Multigrad Longlife	15W-40
Castrol Ltd. / England	Castrol RX Super E Castrol RX Super Plus Castrol CVX	15W-40 15W-40 10W-40
Compañia Española de Petroleos S.A. / Spanien	Cepsa RETTO 15W40 D Cepsa RETTO 20W40 D Cepsa MAN Spain Multigrade Diesel 15W40	15W-40 20W-40 15W-40
Conoco Mineralöl GmbH	Jet High Level D	10W-40
DEA Mineralöl AG	DEA Cronos Premium XL DEA Cronos Super EX DEA Dieselmotorenöl LubriVicol Superior Leichtlauf LubriVicol Supreme Mehrbereich LubriVicol Turbo Plus FE	10W-40 15W-40 15W-40 10W-40 15W-40 10W-40
De Oliebron	Tor Multigrad Öl 53/CE SHPD Tor Syntefleet SHPD 10W-40	15W-40 10W-40
Deutsche Shell AG	MAC HD Superior Shell Motorenöl 1040 Shell Rotella MX 1540 Shell Motorenöl DO Shell Rimula TX	15W-40 10W-40 15W-40 10W-40 15W-40
Elf Lub / France	Elf Disela W Elf Ecomax FE Elf Performance Super Elf Performance XR Elf Performance 3D Elf Tractoreauit SOM Antar Grapholite MS Antar Traxolite Z	15W-40 10W-40 15W-40 15W-40 15W-40 15W-40 15W-40 15W-40

## Lubricant Chart

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### Multigrade Oils for diesel engines (MAN 271/11.96)

ell Mineralwerk Osnabrück	PROKAL Super MGL	10W-40
Eller-Montan-Cema GmbH	ELLMOTOR HD Super C3	15W-40
EMKA Schmiertechnik GmbH	EMKA Universal HD-C	15W-40
	EMKA Supergrade LL-X	10W-40
Enoil S.A. / Spanien	Enoil Supermultigrado 15W40 Diesel	15W-40
	Enoil Multigrado 20W40 Diesel	20W-40
ESSO AG	Essolube MHX	15W-40
	Essolube XD-3+ Multigrade	15W-40
	Essolube LDX	10W-40
	Essolube MFC	15W-40
ESSO / Frankreich	Essolube XD-3+ Eurostars	15W-40
EVVA / Österreich	Évvarol Multi GFP	15W-40
	Évva Galax FE 10W-40	10W-40
Fina Deutschland GmbH	Fina Kappa FE	10W-40
Fina Europe S.A.	Fina Kappa Supra	15W-40
	Fina Kappa DPE	10W-40
Fertwerke Ges.m.b.H.	Euro Supra	15W-40
	Euro UNI	15W-40
Fuchs Mineralölerwerke GmbH	Titan Unic 1040 MC	10W-40
	Titan Universal HD 1540	15W-40
	Titan Universal 1040 MC	10W-40
	Titan Formel 1540	15W-40
GALP / Portugal	GALP Carnis	15W-40
Göhrner	Masterclass Gamma 1540	15W-40
Hessische Ölwerke	Hessol Superior SK	15W-40
	Hessol Leichtlauföl FAMO	10W-40
Hunold Schmierstoffe GmbH	Turbostar 15W40	15W-40
ICPA	ICPA Extra Universal	15W-40
IGP	Igp-Hochleistungs-Leichtlauföl	10W-40
	Igp-Super-Motorenöl HDC	15W-40
INA Raffinerie Nefte Rijeka / Kroatien	INA SUPER 5	15W-40
IGOL / Frankreich	IGOL MS Turbo	15W-40
Italina Petroli	IP Super AXIA Plus	15W-40
Kluth, Oswald	Kluth-Mehrbenzinmotorenöl HDC-F	15W-40
Kompressor-Öl Verkaufs GmbH	Kompressor-FE	10W-40
	Kompressor-Ultraöl C	15W-40
Kron Öl B.V.	Multi fleet SHPD SG/CE	15W-40
Kuwait Petroleum	Q8 T 500	15W-40
	Q8 T 700	15W-40
Liqui Moly GmbH	Touring High Tech Diesel Spezialöl	15W-40
	Liqui Moly Nova Super HD	15W-40
Magic Konsumgüter	Valco Super Multigrade Plus	15W-40
	Valco Extra Premium	15W-40
Meguin GmbH	megol Motorenöl HD-C3	15W-40
	megol Motorenöl Super Leichtlauf Famo	10W-40
	megol Motorenöl Diesel Spezial	15W-40
Mineralöl-Raffinerie Dolberg	Pennasol Longlife Dieselöl	15W-40
	Pennasol Multigrade Extra E	15W-40
	Pennasol Multigrade Extra C	15W-40
	Haco Multigrade Extra E	15W-40
	Haco Multigrade Extra C	15W-40
	Terra Rec Longlife Dieselöl E	15W-40
	Terra Rec Longlife Dieselöl	15W-40
	Terra Rec Multigrade Extra E	15W-40
Terra Rec Multigrade Extra C	15W-40	
Mobil Öl AG	Extra Multigrade 1540	15W-40
	Mobil Delvao Super FL	10W-40
	Mobil Delvao Super 1300	15W-40 oder 20W-50
	Mobil Delvao 1400 Extra	15W-40
	Rotring Mehrbereichs-Motorenöl 1540	15W-40
	Veba RR Diesel-Mehrbereichsmotorenöl	15W-40
MOL Hungarian Oil and Gas Co.	Carrier Maximol-89 Diesel	15W-40
Müller Hubert Math.	Aristokrat Motorenöl Super KTX turbo HD	15W-40
Oest. Georg	Oest Giant Universal HD Motorenöl	15W-40

### Multigrade Oils for diesel engines (MAN 271/11.96)

OMV Aktiengesellschaft	OMV con tot	15W-40
	OMV truck FE	10W-40
	OMV truck M plus	15W-40
Optinol Ölwerke Industrie KG	Optinol Optilub Longlife	15W-40
Panzell AG	Panzell Universal LC	15W-40
Panzell Products	Panzell Long-Life 2000 Motor Oil	15W-40
Pazol Öll / Türkei	P.O. Super Super Diesel	20W-50
	P.O. Super Diesel	15W-40
Petromin / Saudi Arabien	Petromin Diesel Gold	15W-40 oder 20W-40
	Petromin Turbodiesel C	15W-40 oder 20W-40
Petronas DAGANGAN / Malaysia	Petronas Motulub CS 3	15W-40
Pohlmann	Paldol Turbo-Plus HD	15W-40
Raffinerie Gdansk / Polen	Turkos SHPD 15W40	15W-40
Repsol Distribution S.A.	Repsol MULTI-G-DIESEL	15W-40 oder 20W-40
SABL / Spanien	Shelllet Multi Trücker	15W-40
	Shell Formula X	15W-40
	Shell Formula TX	15W-40
	Shell Formula Super	15W-40
	Shell Sirius Multigrade	15W-40
SFS GmbH	SFS-MULTI-PLUS HD	15W-40
SLOVNAFT / Slowak. Rep.	SLOVNAFT MULTI TURBO	15W-40
SRS GmbH Salzbergen	Winterhal TPE	10W-40
	Winterhal Magnum Turbo	15W-40
	Winterhal Magnum TurboFE	10W-40
	Winterhal Rekord 1540	15W-40
	Winterhal Multi-Rekord	15W-40
	Winterhal TX	10W-40
Statol Norge AS / Norwegen	Statol Power Way	15W-40
Sudol GmbH	Sudol Recycling Super Motorenöl Turbo	15W-40
	Sudol Multigrade 10W40	10W-40
SUN Oil Company / Belgien	SUNOCO Force	15W-40
Texaco Technology Europe Ghent	Urea DMO Multigrade	15W-40
	Urea Super FE Multigrade	15W-40
	Urea Super LA Multigrade	15W-40
	Urea Xtra-L	10W-40
TEXOL / Polen	TEXOL Extra Universal	15W-40
	15W40	
Total / Frankreich	Total Rubia XT	15W-40
	Total Rubia FE	10W-40
Unil International	UNIL ORAL MEDOS 600	15W-40
	UNIL OPAL Intercooler 400	15W-40
Valvoline International	Valvoline Super Fleet	15W-40
Veba Öl AG	Veba Logasta Universal N.D.-Motorenöl	15W-40
	Veba Logasta Universal Motorenöl	15W-40
Veedel International / England	Veedel Dieselstar	15W-40
Volländer	Argon-Hochleistungs-Mehrbereichsöl	15W-40
Wacolet	Waco HDC-E Multigrade	15W-40
Wisura GmbH & Co.	Wisura Multi HD-C	15W-40
	Wisura Multi HD-C Plus	15W-40
Wunsch	Wunsch Record Multi HD-O	15W-40
YACCO S.A. / Frankreich	Yacoco Transpo 25	15W-40
Zeller & Gmelin GmbH & Co.	Divinol Multimax C 3	15W-40
	Divinol turbo	15W-40

## Lubricant Chart

### Service Information 11/010397



### SHPD Oils

for diesel engines (MAN QC 13-017/11.96)

### SHPD Oils

for diesel engines (MAN QC 13-017/11.96)

Azu Dhabi National Oil	Adnoc Super High Performance Diesel Oil SHPD	15W-40
Addinol Mineralöl GmbH	Addinol Diesel Longlife MD 1048	15W-40
	Addinol Super Longlife MD 1048	10W-40
ADIBIS	Testöl GB 15083 A	10W-40
	Adibis GB 12894	5W-30
Agip Petroli S.P.A. / Rom	Agip Siltum T	15W-40
	Agip Sigma Turbo	15W-40
Agip Schmiertechnik Autol Werke GmbH	Autol Valve SHP	15W-40
	Autol Valve Turbo FE Plus	10W-40
	Agip Sigma Super TFE	10W-40
ALUCHEM SRL / Italien	ALUSYNT 10W/40	10W-40
Aral AG	Aral Multi Turborail Plus Motoröl	15W-40
	Aral Multi Turborail DL Plus	10W-40
	Aral Mega Turborail Motoröl	10W-40
Ashland Öl Nederland B.V.	A.P.S. Super Turbo SHPD DDE	15W-40
Avia Mineralöl AG	Avia Multi HDC Plus	15W-40
	AVIA Turboosynth	10W-40
BayWa AG	BayWa Super Truck 1540	15W-40
	BayWa Super Truck 1040 MC	10W-40
Bösch & Bödecker GmbH	Turbo Leichtlauf SH 10W/40	10W-40
BP Öl Deutschland GmbH	Motoröl KHV	10W-40
	Vanellus CS Extra	15W-40
	Vanellus HT	10W-40
	Vanellus Spezial HD	10W-40
	Vanellus Super HDC	15W-40
BP Öl International	Vanellus CS Extra	15W-40
BREMIN Mineralöl GmbH & Co.	Gold Star Testa HD	15W-40
Bucher & Cie AG	Motoröl MC Plus SAE 10W/40	10W-40
Calpan Mineralöl-GmbH	Calpan Turbofleet 15W/40	15W-40
Caltex Services (UK) Ltd. London	Delo SHP MultiGrade	15W-40
Castrol Ltd. / England	Castrol Syntack S	5W-30
	Castrol Syntack	5W-40
	Castrol Turbomax	15W-40
	Castrol Dynamax HD	10W-40
Chrysler S.A. / Frankreich	Chrysler Superior Lubricant D8	15W-40
Conifran Recherche SARL / F	MARATHON 10W-40	10W-40
	PLURA SUPER 15W-40	15W-40
Compañía Española de Petrolés	Cepepe SHPD Genuino	15W-40
DEA Mineralöl AG	Lubrolsol Turbo Extra D	15W-40
	DEA Cronos Premium HC	10W-40
	DEA Cronos Super TDL	15W-40
	DEA Cronos Synth	5W-40
De Oliebron B.V. / Holland	Tor Turbofleet SHPD	15W-40
Delek Ltd. / Israel	Delek Turbomotor	15W-40 oder 20W-40
Deutsche Shell AG	MAC HD Superior Motorendl Plus	15W-40
	Shell Myrina X	15W-40
	Shell Myrina TX	5W-30
EFT	BFT-Trucker-Öl SAE 15W-40 CE-SHPD	15W-40
Eif Lub / Frankreich	Eif Performance Trophy	15W-40
	Eif Ecomax FE Plus	10W-40
	Antar Grapholix TX	15W-40
eif Mineralölwerk Osnabrück	IROKAL Super Plus	15W-40
Eifer Montan Comp. GmbH	Eifmotol Turbo HD	15W-40
EMKA Schmiertechnik GmbH	EMKA Turbo Super SHPD	15W-40
	EMKA Ecomax DLE	10W-40
Ertil S.A. / Spanien	ERTOIL Super HPD Large Duración	15W-40
ESSO AG	Essolube TDX	10W-40
	Essolube TDS	15W-40
ESSO Italiana	Essolube TD	15W-40
ESSO España	Essolube SD-3 Extra +	15W-40
ESSO Petroleum Company Ltd.	Essolube XD-3 Extra +	15W-40
	Essolube TD	15W-40
EVVA / Österreich	Evvardol Multi SHPDO	15W-40
Fina Europe S.A.	Fina Kappa Ultra	10W-40

Fina Europe S.A.	Fina Kappa LDO	15W-40
	Fina Kappa Extra	15W-40
Fuchs Mineralölvwerke GmbH	Fuchs Titan Truck 1840	15W-40
	Fuchs Titan Cargo MC	10W-40
Ginouvès Georges S.A.	York LT 748	15W-40
	York 747	10W-40
Günther, V.W.	Masterclass Taurus 1540	15W-40
HAFSA Lubrificants	Stradex 1200	15W-40
	HAFSA Eurodex	10W-40
Heessche Oelwerke	HESPOL Turbo-Diesel	15W-40
HGK	SVG Unipol Turbo SHPD	15W-40
Hilbert, Tonius	Korbel Super Mehrbereichsöl HDC	15W-40
Hunold Schmierstoffe GmbH	Hunold HD 40X Plus	15W-40
IGOL / Frankreich	IGOL Rallye Turbo 4E LD	15W-40
	IGOL Rallye S TLD	10W-40
INA Raffinerie Rijeka / Kroatien	INA Super Turbo	15W-40
Ineressengemeinschaft Parganzenwälder	KIP-Turbo-Super-Motorendl SHPD	15W-40
Käppler GmbH u. Co. KG	Selecol Turbo SHPD Mehrbereich-Motorendl	15W-40
Kluth, Oswald	Kluth-Mehrbereichsmotorendl Super HDC	15W-40
Kompressor-Öl Verkauf GmbH	Kompressor-Ultra C Plus	15W-40
KORAMO / Tschech. Republik	Mogul Diesel DTT 15W-40	15W-40
Kraft S.A. / Spanien	Multigrado SHPD DMOK	15W-40
Kroon Oil B.V.	Kroon-Öl Dieseltest CD-	15W-40
Kutschenreiter GmbH	KCC-Mega Truck	15W-40
Kwail Petroleum	IGB T 710	15W-40
Liqui Moly GmbH	Liqui Moly-ULTRAPOL-Motorendl	10W-40
Meguin GmbH	megul Motorendl SHPD	15W-40
	megul Motorendl Super Leichtlauf DMOK	10W-40
Millers Oils Ltd. / England	Truclmaster XHPD	15W-40
Mineralöl-Raffinerie Dolberg GmbH	Pennacol Turbo Super	15W-40
	Pennacol Turbo Super E	15W-40
Mineralöl-Raffinerie Dolberg GmbH	Terra REC Turbo Super	15W-40
Mobil Oil AG	Mobil Delvac	10W-30
	Mobil Delvac XHP	10W-40 oder 15W-40
	Mobil Delvac 1400 Super	15W-40
	Mobil Delvac 1 SHC	5W-40 oder 10W-40
MOL Hungarian Oil and Gas Co.	CARRIER SUPER DIESEL	15W-40
Motor Oil (Hellas)	EMO SHPD	15W-40
MOTUL S.A.	Motul Traffic 50MR	10W-40
Neste Oy, Lubricants	Nespol Turbo	15W-40
Nitz Öl GmbH	Importol All Climate SHPD HD-C	15W-40
Noviol B.V.	Kendall Super SHPD LD	15W-40
OMV Aktiengesellschaft / Österreich	OMV truck LD	15W-40
	OMV truck FE plus	10W-40
Oest, Georg	Oest Dimo Super S 3	15W-40
	Oest Dimo HT-Super	10W-40
Optimol Ölvwerke	Optimol Optilub Longlife SH	15W-40
Pandol AG	Pandol Universal SFE	10W-40
PAKALO Motor Oil / Italien	PAKALO PRO KENTRON	15W-40
PARAMO / Tschech. Republik	TRYBK Global 10W-40 UNPD	10W-40
PAZ Lubricants & Chemicals	Peztrular MDX 15W/40	15W-40
Pennacol Overseas B.V. / NL	Pennacol Feedmaster SAE 15W-40 Motor Oil	15W-40
Petromin / Saudi Arabian	Petromin Superfleet LD	15W-40
Repsol / Spanien	Repsol Super Turbo Diesel	15W-40
Rheinische Motor-Öl	RMV-Columbia	15W-40
SAEL / Spanien	Guilfest Highway (E)	10W-40
	Guilfest Long Road	15W-40
Shell / France	Shell Myrina TX	15W-40
Shell International	Shell Myrina M	15W-40
	Shell Myrina X	15W-40
	Shell Myrina TX	5W-30 oder 10W-40
SIPS GmbH	Sipe-Record Turbo T	15W-40
	Sipe TSL 3-Extra	15W-40
SLOVNAFT / Slow. Republik	IMADIT TIRMAN	15W-40
Sonol Israel Ltd.	Sacol S-500	15W-40

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## Lubricant Chart

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### SHPD Oils

for diesel engines (MAN QC 13-017/11.96)

SRS Seitzbergen	Wintershall Turbo Rekord	15W-40
	Wintershall Magnum Turbo DS	15W-40
Statoil Norge AS / Norwegen	Wintershall TFF	10W-40
	Statoil Max Way	15W-40
Süddl GmbH	Süddl SHPD	15W-40
Sun Oil / Belgien	Super HPD	15W-40
SYNECO S.p.A. / Italien	Multigrade	15W-40
ROLON / Italia	Dolomiti-M	15W-40
Tedax Sp. z. o.o. / Polen	Tedax Diesel Trucks Special Motor Oil	15W-40
Texaco Technology Europe / Ghent	Ursa Super TD	15W-40
	Ursa TDX	10W-30
Total / Frankreich	Total Rubia TIR XLD	15W-40
	Total Rubia TIR MAX	15W-40
	Total Rubia TIR 8200	10W-40
	Total Rubia TIR 8500	15W-40
Unil Deutschland	UNIL MANTO TD	15W-40
	MEDOS TD	15W-40
Unil Lubrificants	UNIL OPAL MEDOS 850	15W-40
	UNIL OPAL LCM 800	15W-40
		15W-40
Valvoline International	Valvoline ProFleet F.E.	10W-40
	AG Fleet Extra	15W-40
Veba Oil AG	Veba Vrada ECO-Truck Dieselmotorenöl	10W-40
	Veba Loganta Super Truck Dieselmotorenöl	15W-40
Veedel International Ltd.	Veedel TurboStar	15W-40
	Veedel Dynastar	10W-40
Volländer	Argon-Hochleistungs-Dieselmotorenöl	15W-40
Wecotec Trading und Consulting	WECO Super Motorenöl HDG-LD Multigrade	15W-40
Witura GmbH & Co.	Witura Mult TS	15W-40
Wolf Oil Corporation / Belgien	Wolf Masterlube Longdrain Turbo	15W-40
Würth GmbH	Marathon Diesel Longlife	15W-40
Wurach, Udo	Wurach Turbo Record	15W-40
Yacco S.A. / Frankreich	Yacco Transpro 35	15W-40
	Yacco Transpro 45	10W-40
Zeller-Gmein GmbH & Co.	Divinol Multimax Top	15W-40
Zielke Zakłady / Polen	TRANS-DIESEL S	15W-40

### Antifreeze

with inhibitor for engine cooling systems MAN 324/11.96)

Agip Deutschland AG	Agip Antifreeze Plus
Agip Schmiertechnik Auto-Werke GmbH	Agip / Autol Langzeit Frostschutz
Aral AG	Aral Kühler Frostschutz A
	Aral Kühler Frostschutz Extra
	Aral Kühler Frostschutz D
Avia-Mineralöl AG	Avia Frostschutz
BASF AG	Avia Frostschutz APN
	Glysanin G 03
BASF / USA	Glysanin G 48
	Glysanin® mit Protect Plus
Baucher & Cie. AG / Schweiz	BC Antifreeze G 8815
Caltex Services Ltd.	Frostschutz Motorex
CEA Mineralöl AG	Caltex CX Engine Coolant
Deutsche Shell Chemie GmbH	DEA Kühler Frostschutz
DOW Chemical Europe S.A.	GlycoShell
Elf Lub / Frankreich	DOW Kühler Frostschutzmittel D 824-13F
	DOW Kühler Frostschutzmittel D 842/1993
Elf Lub / Frankreich	Elf Antifreeze Special
	Geacel 80X
EUROL Mineralölgewerbe GmbH	Euro Antifreeze
EVVA / Österreich	EVVA Antifreeze
Fina Europe S.A.	Fina Turmidor P 100
Fuchs Mineralölgewerbe GmbH	Frostschutz Motorex
Genol	Genol Antifreeze
Girouves Georges S.A.	York LT 718
Henkel Hiltol GmbH	Froster MB 02
Hochfil	Genarol Extra B
INA Industrija Zagreb / Kroatien	INA Antifreeze AI Super
Mobil Oil AG	Frostschutz 800
OMV AG	Frostschutz 800 Plus
	OMV Frostschutzmittel
Ravensberger	Ravensol Alu-Kühler Frostschutz
Shell Assoil AG / Schweiz	Assoil Antifreeze 28-50
Shell Austria AG	Assoil FN 28-33
	GlycoShell AF 811
Texaco Technology Europe / Ghent	Texaco Frostschutz NF (EXT 6024)
Total Deutschland GmbH	Total MultiProtect OZO Frostschutz S
Total Deutschland GmbH	Total OZO Frostschutz S
YACCO / Frankreich	Antifreeze Yacco

### Inhibitor

for engine cooling systems if no anti freeze is required (MAN 248/11.96)

Fleetguard

Fleetguard DCA II Fluid

## Lubricant Chart

### Service Information 11/010397



### STOU Oils

For transmissions (ZF TE - ML 06/12.96)

AGIP PETROLI SPA, ROMA  
 AGIP SCHWERTERTECHNIK, WÜRZBURG/D  
 BAYWA AG, MÜNCHEN/D  
 BAYWA AG, MÜNCHEN/D  
 BLASER SWISSLUBE, HASLE-RÜEGSAU/CH  
 CALFAM GMBH, ASCHAFFENBURG/D  
 CEPBA, MADRIDE  
 DE OLIEBRON B.V., ZWINDRECHT/NL  
 DEUTSCHE SHELL AG, HAMBURG/D  
 ELF LUBRIFIANTS, PARIS/F  
 ELF LUBRIFIANTS, PARIS/F  
 ELF LUBRIFIANTS, PARIS/F  
 ELF LUBRIFIANTS, PARIS/F  
 ESSO AG, HAMBURG/D  
 ESSO AG, HAMBURG/D  
 FUCHS LUBRIFIANTS, MAZZO DI RHO/I  
 FUCHS MINERALÖLWERKE, MANNHEIM/D  
 FUCHS MINERALÖLWERKE, MANNHEIM/D  
 GENOL GMBH, WIEN/A  
 GINOUVES GEORGES SA, LA FALLEDE/F  
 HANDELMANU NOVIOL B.V., NIJMEGEN/NL  
 IGOL FRANCE, PARIS/F  
 ITALIANA PETROLI, GENOVA/I  
 KLOCKNER ENERGIEHANDEL GMBH, KOLN/D  
 KLOCKNER ENERGIEHANDEL GMBH, KOLN/D  
 KRAFFT SA, ANDOAN/VE  
 KROON OIL BV, ALMELON/L  
 KUWAIT PETROLEUM, HOOGVLIET/NL  
 LEFRANC-SIVÈRE GMBH, HERFORD/D  
 LIQUI MOLY / MEGUIN, ULM/D  
 MOBIL OIL, WEDEL/D  
 NANSHAI SUPERIOR LUB-OIL, CHINA  
 OEST G. MIN.ÖL WERK, FREUDENSTADT/D  
 OK NEDERLAND BV, ROTTERDAM/NL  
 ORLY AG, SCHWEGHAT/A  
 ORLY INTERNATIONAL, VIEUX-THANN/F  
 ORLY INTERNATIONAL, VIEUX-THANN/F  
 PAKELO MOTOR OIL, SAN BONIFACIO/I  
 PANOLIN AG, MADEIWEIL/CH  
 RAIFFESEN HG NORD AG, HANNOVER/D  
 REPSOL DISTRIBUCION SA, MADRIDE  
 SCHMIERSTOFFRAFFINERIE SALZBERGEN/D  
 SHELL INTERNATIONAL, LONDON/GB  
 SHELL INTERNATIONAL, LONDON/GB  
 STATOIL STAVANGER/N  
 TEGACO SERVICES LTD, BRÜSSEL/B  
 TOTAL RAFFINAGE DISTR., PARIS/F  
 UNIL DEUTSCHLAND GMBH, BREMEN/D  
 VERA OEL AG, GELSENKIRCHEN/D

AGIP SUPERTRACTOR UNIVERSAL  
 AUTOL SUPER-TRAKTOR-OIL UNIV.  
 BAYWA SUPER 2000 CD-MC  
 BAYWA SUPER 7 MC  
 BLASOL 250  
 MULTITRAC  
 CEPBA SUPER TRACTOR OIL UNIV.  
 MULTITRAC  
 MAC TRAKTORENÖL UNIVERSAL TU  
 TRACTORELF 5T3  
 ANTAR AGRIA GR+  
 ANTAR AGRIA SUPER FM  
 HUILE RENAULT DIESEL AGRIMAT  
 TRACTORELF 5T4  
 UNIFARM  
 UNISITE  
 HY-VIS HD EXTRA STOU  
 TITAN HYDRAMOT 1030 MC  
 TITAN HYDRAMOT 1040 MC  
 GENOL TRAC-SYN 1040 EC  
 YORK 743 (SAE 10W40)  
 KENDALL MULTI FARM  
 IGOL AGRIMU SUPER  
 ORO UNO  
 DEUTZ OEL GDM-UNIVERSAL 10W30  
 DEUTZ TRACTOR OIL 1030 EC  
 SUPER TRACTOR UNIVERSAL OIL  
 KROONTRAC SUPER 15W30  
 QS T 1000 SAE 15W30  
 LEFRANCO STOU  
 TRAKTORENÖL STOU  
 MOBIL AGR SUPER  
 NANSHAI STOU OIL 10W30  
 SUPER TRAKTOR OIL UNIVERSAL  
 OK 3001  
 ORLY ALUSTROTRAC 10W-40  
 ORLY STOU LUNA  
 ORLY APOLLO  
 PAKELO STOU FLUID  
 PANOLIN STOU  
 HQ 2000 - 3  
 REPSOL CERES STOU  
 WINTERSHALL PRIMAVOL  
 SHELL HARVELLA T  
 SHELL HARVELLA TX  
 MULTITWAY  
 STOU PREMIUM  
 TOTAL MULTAGRIM TM  
 UNIL SUPER AGRIA  
 LOGENTA SCHLEPPER-UNIVERSAL OIL

### Transmission Oils API - GL 5 TE - ML 05/12.96)

ADDONOL MINERALÖL GMBH, KRUMPA/D  
 AGIP PETROLI SPA, ROMA  
 AGIP PETROLI SPA, ROMA  
 AGIP SCHWERTERTECHNIK, WÜRZBURG/D  
 ARAL AG, BOCHUM/D  
 ARAL AG, BOCHUM/D  
 AVIA MINERALÖL-AG, MÜNCHEN/D  
 AVIA MINERALÖL-AG, MÜNCHEN/D  
 BAYWA AG, MÜNCHEN/D  
 BAYWA AG, MÜNCHEN/D  
 BLASER SWISSLUBE, HASLE-RÜEGSAU/CH  
 BLASER SWISSLUBE, HASLE-RÜEGSAU/CH  
 BLASER SWISSLUBE, HASLE-RÜEGSAU/CH  
 BP OIL DEUTSCHLAND, HAMBURG/D  
 BP OIL INTERNATIONAL, LONDON/GB  
 BP OIL INTERNATIONAL, LONDON/GB  
 BP OIL INTERNATIONAL, LONDON/GB  
 BUCHER-CIE AG, LANGENTHAL/CH  
 C.D. REINHARDT & SOHN, WUPPERTAL/D  
 CALFAM GMBH, ASCHAFFENBURG/D  
 CALTEX PETROLEUM CORP., LONDON/GB  
 CASTROL LTD, SWINDON/GB  
 CASTROL LTD, SWINDON/GB  
 CASTROL LTD, SWINDON/GB  
 CASTROL LTD, SWINDON/GB  
 CEPBA, MADRIDE  
 DE OLIEBRON B.V., ZWINDRECHT/NL  
 DEA MINERALÖL AG, HAMBURG/D  
 DEA MINERALÖL AG, HAMBURG/D  
 DELEK, TEL AVIV/IL  
 DEUTSCHE SHELL AG, HAMBURG/D  
 DUCKHAMB OIL, BROMLEY/GB  
 ELF LUBRIFIANTS, PARIS/F  
 ELF LUBRIFIANTS, PARIS/F  
 ELF LUBRIFIANTS, PARIS/F  
 ELF LUBRIFIANTS, PARIS/F  
 ELLER-MONTAN-COMP., DUESBURG/D  
 ENGEN PETROLEUM, CAPE TOWN/ZA  
 ENGEN PETROLEUM, CAPE TOWN/ZA  
 EKTOL SA, MADRIDE  
 ESSO AG, HAMBURG/D  
 FALCON OIL CO. LTD., SHARJAH/UA  
 FINA EUROPE SA, BRÜSSEL/B  
 FINA EUROPE SA, BRÜSSEL/B  
 FUCHS MINERALÖLWERKE, MANNHEIM/D  
 FUCHS MINERALÖLWERKE, MANNHEIM/D  
 FURUKAWA CO LTD, JAPAN  
 GDANEX REFINERY, GDANSK/PL  
 GENOL GMBH, WIEN/A  
 GINOUVES GEORGES SA, LA FALLEDE/F  
 GULF OIL (GB) LTD, CHELTENHAM/GB  
 HAFSA, PARIS/F  
 HANDELMANU NOVIOL B.V., NIJMEGEN/NL  
 HESSISCHE ÖLWERKE, BAD-VILBEL/D  
 HOMBURG GMBH-CO KG, WUPPERTAL/D  
 IGOL FRANCE, PARIS/F  
 INA D.D. RAFFINERIA ZAGREB/YU  
 INA D.D. RAFFINERIA ZAGREB/YU  
 KÄPPLER K., STUTTGART/D  
 KLOCKNER ENERGIEHANDEL GMBH, KOLN/D  
 KRAFFT SA, ANDOAN/VE  
 KROON OIL BV, ALMELON/L  
 KUWAIT PETROLEUM, HOOGVLIET/NL  
 KUWAIT PETROLEUM, HOOGVLIET/NL  
 LASO INDUSTRIE, NANTERRE/F  
 LEFRANC-SIVÈRE GMBH, HERFORD/D  
 LIQUI MOLY / MEGUIN, ULM/D  
 LIQUI MOLY / MEGUIN, ULM/D  
 LUBRICATION ENGIN., PORT WORTH/USA  
 MAURAN SA, ODARS/F  
 MIN.ÖL-RAFFIN. DOLLBERGEN, UETZ/D  
 MOBIL OIL, WEDEL/D  
 MOBIL OIL, WEDEL/D  
 MOBIL OIL, WEDEL/D  
 MORRIS LUBRICANTS, SEKREWSBURY/GB  
 NANSHAI SUPERIOR LUB-OIL, CHINA  
 NOALCO INC, NOALE/I

ADDONOL GETRIEBÖL OH  
 AGIP MOTRA MP  
 AGIP MOTRA TRUCK GEAR  
 AUTOL HYPOID-GETRIEBÖL  
 ARAL GETRIEBÖL EP PLUS 80W90  
 ARAL GETRIEBÖL HYF  
 AVIA SYNTOGEAR FE 80W90  
 AVIA HYPOID EP  
 BAYWA GETRIEBÖL HYPOID  
 BAYWA GETRIEBÖL SUPER 80W90 MC  
 BLASOL 211  
 BLASOL 212 / 216  
 BLASOL 218  
 FRONTOL GETRIEBÖL FE  
 FRONTOL HYPOID-GETRIEBÖL B  
 ENERGEAR HT 80W90  
 ENERGEAR DL  
 ENERGEAR HYPO  
 MOTOREX GEAR OIL UNIVERSAL  
 GUREX-HYPOID-GETRIEBÖL  
 SUPER GEAR OIL  
 GALTIX MULTIPURPOSE GEAR OIL HD  
 CASTROL EPX  
 CASTROL SAF-30  
 CASTROL DYNADRIE 80W90  
 CASTROL AGR GEAR OIL-3  
 CEPBA TRANSMISSIONS EP  
 SUPER GEAR OIL  
 DEAGAR MZ  
 DEAGAR EP-B  
 GEAR OIL GX 90  
 MAC EP GETRIEBÖL 90  
 FLISTOD 5  
 ANTAR EPF  
 HUILE RENAULT DIESEL HD  
 TRANSOLF TYP 5  
 TRANSOLF SYNTHES FE  
 ELLMO-HYPOID DB  
 ENGEN GEARLUBE EP 90-A  
 ENGEN GEARLUBE EP 80W90/85W140  
 EP CAMBIOS Y DIFERENCIALES  
 ESSO GEAR OIL GX-D  
 FALCON SUPER MP GEAR OIL  
 FINA PONTONIC FFL  
 FINA PONTONIC MP  
 TITAN GEAR HYP  
 TITAN SUPER GEAR 80W90 MC  
 CORMO LIO DIFFERENTIAL  
 TITANIS GL-5 80W90  
 GENOL HYPOID 80W90  
 YORK 780  
 MULTIGEAR LUBRICANT 90 (GB)  
 EUROGEAR 75W90  
 KENDALL NS-MP GEAR LUBE  
 HESSOL SPEZ.HYPOID GETR.ÖL EP  
 HOMBURG-GETRIEBÖL-EL-HYPOID  
 IGOL HYPOID B  
 INA-HIPENOL GTL HD  
 INA-HIPENOL GTL DS 90  
 HYPOID GETRIEBÖL GL-5  
 DEUTZ OEL GO-EP 90/8  
 HIDROL EP  
 GEARLUBE GL-5  
 QS T 55 SAE 80W90 / 90  
 QS AUTO 12  
 MEGALUB M  
 LEFRANCO HYPOID  
 HYPOID GETRIEBÖL TOL  
 HYPOID GETRIEBÖL GL-5  
 ALMASOL VARI-PURPOSE GEAR LUBE  
 INTER OIL MULTIGEAR 2000  
 PENNASOL HYPOID-GETR.ÖL GL-5  
 MOBILITE HD-A  
 MOBILITE SHC-M  
 MOBILITE 1 SHC  
 MORRIS EP  
 NANSHAI BRAND 525 GEAR OIL  
 CROMEL S

## Lubricant Chart

### Service Information 11/010397



### Transmission Oil API - GL 5 (ZF TE - ML 05/12/96)

### Transmission Oil API - GL 5 With LS-Additives (ZF TE - ML 05/12/96)

NOVO-LIFINSKY REFINERY, RUSLAND  
OEST G. MIN.ÖLWERK, FREUDENSTADT/D  
OEST G. MIN.ÖLWERK, FREUDENSTADT/D  
OK NEDERLAND BV, ROTTERDAM/NL  
OMSK REFINERY, OMSK/RS  
OMV AG, SCHWECHAT/A  
OMV AG, SCHWECHAT/A  
OMV AG, SCHWECHAT/A  
OMV AG, SCHWECHAT/A  
OPTIMOL ÖLWERKE, HAMBURG/D  
ORLY INTERNATIONAL, VIEUX-THANV  
ORLY INTERNATIONAL, VIEUX-THANV  
OSWALD KLUTH, BARGFELD-STEGEND  
PAKELO MOTOR OIL, SAN BONIFACIO  
PANOLIN AG, MADETSWILCH  
PANOLIN AG, MADETSWILCH  
PENNZOIL PRODUCTS, ZAANDAM/NL  
PERM REFINERY, RUSLAND  
PETROL TRGOVINA, DUNAJEVA/SLO  
PRINZ-SCHULTE, FRECHEN/D  
RAFFIENEN HO NORD AG, HANNOVER/D  
SASOL OIL, SANDBURG/ZA  
SCHAEFFER MFG COMP., ST. LOUIS/USA  
SCHMERSTOFFRAFFINERIE SALZBERGEN/D  
SHARJAH NAT LUBE OIL, SHARJAH/AE  
SHELL ASEOL AG, BERN/CH  
SHELL INTERNATIONAL, LONDON/GB  
SHELL INTERNATIONAL, LONDON/GB  
SONOL ISRAEL LTD, HAIFA/IL  
STATOIL STAVANGERN  
STRUB-CO AG, REIDEN/CH  
STRUB-CO AG, REIDEN/CH  
SUN OIL COMPANY, AARTSELAAR/B  
TEXACO SERVICES LTD, BRÜSSEL/B  
TEXACO SERVICES LTD, BRÜSSEL/B  
TEXACO SERVICES LTD, BRÜSSEL/B  
TOTAL RAFFINAGE DIST., PARIS/F  
TOTAL RAFFINAGE DIST., PARIS/F  
TURBOTANK BOSCH-BODEKER, BREMEN/D  
UNIL DEUTSCHLAND GMBH, BREMEN/D  
VALVOLINE INTERNAT., DORDRECHT/NL  
VERA OEL AG, GELSENKIRCHEN/D  
VEEDOL INTERNATIONAL, SWINDON/GB  
VEEDOL INTERNATIONAL, SWINDON/GB  
VEEDOL INTERNATIONAL, SWINDON/GB  
WEYERS-VAGEDES, BOCHOLT/D  
YACCO SA, ST PIERRE-LES-ELBEUF/F  
ZELLER-CMELIN GMBH&CO, EISLINGEN/D

NOVOIL T 80W/90  
MEHRZWECK-GETRIEBEÖL SPEZIAL  
MEHRZWECK-GETRIEBEÖL FE 80W/90  
OK CARDAN MP-B SAE 80W/90  
SUPER T 85W/90  
OMV LINEAR S  
OMV GETRIEBEÖL B  
OMV UNIGEAR  
OMV GEAR OIL XDS  
OPTIMOL HYPOID-GETRIEBEÖL M8/D  
ORLY ALRIGA EP  
ORLY LYRA EP  
HYPOID-GETRIEBEÖL B  
PAKELO GEAR OIL EP GL-5  
PANOLIN SUPER DUTY  
PANOLIN TOPGEAR  
MP EP GEAR LUBRICANT 408  
VELS GEAR  
PETROL HYPOID GL-5  
ARMO-LINE GL-5  
HG GETRIEBEÖL EW 90  
SASOL TALRUS  
ZIN MOLY UNIVERSAL GEAR LUBE  
WINTERSHALL VIOLIN HYV. GETR. ÖL  
SHARLU EP GEAR LUBE  
ASEOL TOPRESS  
SHELL SPIRAX AX  
SHELL SPIRAX MB 90  
HYPOLUBE GL-5  
GEARWAY GS  
STRUB MULTIGEAR 800 80W/90  
STRUB VULCOGEAR SYN7 SOX 75W/90  
SUNOCO GL-5  
GEARTEX EP-B  
MULTIGEAR S  
MULTIGEAR  
TOTAL TRANSMISSION TM  
TOTAL EP-B  
TURBO GETRIEBEÖL HYPOID SB  
UNIL GEAR ZF  
VALVOLINE HP GEAR OIL X-18 MD  
MOVARA HYV-GETRIEBEÖL  
VEEDOL MULTIGEAR B  
VEEDOL MULTIGEAR C  
VEEDOL SAF 66  
HYPOID GETRIEBEÖL B GL-5  
YAHYPO C  
DIVINOL HYPOID-GETRIEBEÖL DS

ADDINOL MINERALÖL GMBH, KRIMPAD  
AGIP PETROLI SPA, ROMA/I  
ARAL AG, BOCHUM/D  
AVIA MINERALÖL-AG, MÜNCHEN/D  
BAYWA AG, MÜNCHEN/D  
BLASER SWISSLUBE, HASLE-RÜBOSAU/CH  
BP OIL DEUTSCHLAND, HAMBURG/D  
BP OIL INTERNATIONAL, LONDON/GB  
BUCHER+CEE AG, LANGENTHAL/CH  
CALTEX PETROLEUM CORP., LONDON/GB  
CASTROL LTD, SWINDON/GB  
CASTROL LTD, SWINDON/GB  
CASTROL LTD, SWINDON/GB  
CASTROL LTD, SWINDON/GB  
CASTROL LTD, SWINDON/GB  
DEA MINERALÖL AG, HAMBURG/D  
DEUTSCHE SHELL AG, HAMBURG/D  
DEUTSCHE SHELL AG, HAMBURG/D  
DUCKHAMS OIL, BROMLEY/GB  
ELF LUBRIFIANTS, PARIS/F  
ELF LUBRIFIANTS, PARIS/F  
ELF LUBRIFIANTS, PARIS/F  
ELIER-MONTAN-COMP., DUISBURG/D  
ENGEN PETROLEUM, CAPE TOWN/ZA  
ESSO AG, HAMBURG/D  
FINA EUROPE SA, BRÜSSEL/B  
FLIBRIA SA, CANOVELLE/IT  
FUCHS MINERALÖLWERKE, MANNING/D  
FURUKAWA CO LTD, JAPAN  
GENOL GMBH, WIEN/A  
GOMUVES GEORGES SA, LA FARELE/F  
IGOL FRANCE, PARIS/F  
ITALIANA PETROLI, GENOVA/I  
KÄPPLER K., STUTTGART/D  
KLOCNER ENERGIEHANDEL GMBH, KOLN/D  
KOMPRESSÖL-OIL, KOLN/D  
KUWAIT PETROLEUM, MOOVLIET/NL  
LEFRINCE-STEVEZ GMBH, HERRFORD/D  
MOBIL OIL, WEDDEL/D  
MOL HUNGARIAN OIL, KOMAROM/H  
NOVA STILLMOIL SPA, MODENA/I  
NOVA STILLMOIL SPA, MODENA/I  
OEST G. MIN.ÖLWERK, FREUDENSTADT/D  
OMV AG, SCHWECHAT/A  
ORLY INTERNATIONAL, VIEUX-THANV  
OSWALD KLUTH, BARGFELD-STEGEND  
PAKELO MOTOR OIL, SAN BONIFACIO  
PANOLIN AG, MADETSWILCH  
RAFFIENEN HO NORD AG, HANNOVER/D  
REPSOL DISTRIBUCION SA, MADRID/E  
SCHMERSTOFFRAFFINERIE SALZBERGEN/D  
SHELL ASEOL AG, BERN/CH  
TEXACO SERVICES LTD, BRÜSSEL/B  
TOTAL RAFFINAGE DIST., PARIS/F  
TURBOTANK BOSCH-BODEKER, BREMEN/D  
UNIL DEUTSCHLAND GMBH, BREMEN/D  
VEEDOL INTERNATIONAL, SWINDON/GB  
VEEDOL INTERNATIONAL, SWINDON/GB  
VEEDOL INTERNATIONAL, SWINDON/GB  
VEEDOL INTERNATIONAL, SWINDON/GB  
WEYERS-VAGEDES, BOCHOLT/D  
YACCO SA, ST PIERRE-LES-ELBEUF/F  
YUKONG LTD, SEOUL/KOREA  
YUKONG LTD, SEOUL/KOREA

ADDINOL GETRIEBEÖL GH LS  
AGIP ROTRA MP/3  
ARAL DEZOL 3216  
AVIA HYPOID 90 LS  
BAYWA GETRIEBEÖL HYPOID LS 9  
ELASOL 217  
FRONTOL GETRIEBEÖL LS  
ENERGEAR LIMELEP 90  
MOTOREX GEAR OIL LS  
CALTEX GEAR OIL ZF  
CASTROL LSX  
CASTROL SAF-XLS  
CASTROL HYPOY LS  
CASTROL SAF-XJ  
CASTROL SAF-X  
DEAGEAR LS  
MAC GETRIEBEÖL LS 90  
SHELL GETRIEBEÖL 90 LS  
HYPOID 90 DL  
TRANSIL TYP SLS  
ANTAR SLS  
HUILE KENACLT DIESEL EP GL  
ELLMO-HYPOID LS  
ENGEN GEARLUBE EP 90 LS  
ESSO GETRIEBEÖL LSA 85W/90  
FINA PONTONIC LS  
FL GL-5 LS  
TITAN GEAR LS 90  
KYOSKI FX AGLE 80W/90  
GENOL HYPOLUBE LS 90  
YORK 198 LS  
IGOL HYPOID BPA  
PONTIAX LS  
SELECTOL HYPOID GETR.ÖL 104 LS  
DELUX OEL GO-EP 90 LS  
HYPOID EW LS  
Q8 T 45  
LEFRINKOL LS  
MOBILUBE LS  
CARRIER HYKOMOL LS SAE 85W-90  
GEAR GS LUBE SPECIAL LINE 90  
GEARJUNG WONDER 85W/90  
GETRIEBEÖL HYPOID LS 90  
OMV GETRIEBEÖL LS  
ORLY TUCANA LS  
GETRIEBEÖL LS  
PAKELO UNIVERSAL GEAR EP  
PANOLIN SUPER DUTY 90 LS  
HG GETRIEBEÖL HYPOID LS 90  
CS EP AUTOBLOCANTE  
WINTERSHALL VIOLIN RSH  
ASEOL TOPRESS LS  
GEARTEX LS  
TOTAL TRANSMISSION DA  
TURBO GETRIEBEÖL LS  
UNIL GEAR AB EP  
VEEDOL SAF 22  
VEEDOL MULTIGEAR LS  
VEEDOL SAF 55  
VEEDOL SAF 44  
HYPOID GETRIEBEÖL LS 90  
YAHYPO BN 90  
YUKONG GEAR OIL LSD  
YUKONG GL-5 80W/90



## 4. Fuels and Lubricants Favorit 509 C - 515 C

Filling points	Quantity approx. litres 1)	Type 4)	Frequency of change 2)
Engine with change of filter 509 C, 510 C 511 C 512 C, 514 C, 515 C	12,0 18,5 19,5	All-year engine oil 3) as per API-CD and/or CCMC-D4 or -D5	after 50, 250, 500, 750, 1000 then: every 500 operating hours' prolonged use, but every 250 operating hours with frequent starts and up to 1000 operating hours per year, but at least annually (with fuel containing up to 0,5 % sulphur)
Turboclutch Initial/Repeat fill 509 C 510 C 511 C 512 C 514 C 515 C	7,5/7,25 7,6/7,35 7,7/7,45 8,3/8,05 8,3/8,05 8,3/8,05	HD SAE 10W	no change necessary
Shuttle gears and Differential 509 C - 515 C	45,0	STOU Universal oil SAE 10W-40 or 10W-30 or 15W-40 or 15W-30	after 500 operating hours, then every 2 years or every 2000 operating hours
Final drive spur gears 509 C, 510 C 511 C 512 C, 514 C, 515 C	5,7 each 6,5 each 9,2 each	Special Hypoid transmission oil SAE 85W-90 or SAE 80W-90 or SAE 90 as per API GL-5 or STOU or other Universal oil	after 500 operating hours, then every 2 years or every 2000 operating hours.
Front axle differential gears Hub drives	7,0 0,75 each		Front axle differential and hub drives after 250 and 1000 operating hours, then every 2 years or every 1000 operating hours.
Front pto	1,0		
Lifting shaft lubrication	0,2		Lifting shaft lubrication (only top up) after 50 operating hours or when there is a leak
Hydraulics Amount to be changed when filled to max. 509 C, 510 C 511 C, 512 C, 514 C, 515 C	26,0 45,0	HD-SAE 20W-20 as per API-CD Also permissible: STOU SAE 15W-30	after 1000 operating hours then every 2 years or every 1000 operating hours
Fuel tank 509 C, 510 C 511 C, 512 C, 514 C, 515 C	135 210	Diesel fuel 5)	Fill up after use
Cooling system 509 C, 510 C 511 C 512 C 514 C, 515 C	15,5 22,0 21,0 22,0	Water with 35 - 50 % vol. anti-freeze and anti-corrosion agent	Change anti-freeze mix every 2 years
Clutch system	0,3	Hydraulic oil Pentosin CHF 11S (X 902.011.622)	every 2 years
Brake system	0,5	Only mineral-oil free brake fluid as per SAE J 1703 and/or FMVSS 116 DOT 4	every 2 years
Compressor	0,5	0Anti-freeze ethyl alcohol (X 902.013.003)	only top up below + 5 °C
Lubrication points see Lubrication Chart		Lithium-soaped grease, NLGI-Class 2 (Walk penetration coefficient 265-295)	see Lubrication Chart - regularly oil all other joints and bearings

1) To do this, it is advisable to check with a dipstick; otherwise overflow from the filling point or similar is an indication

2) Whichever is the sooner

4) For permissible trade-names, if specified, see current fuels and lubricants list which is available from the Fendt authorised workshops as an after-sales service document.

5) Alternative fuel, e.g. RME, only if approved by the After-Sales Service Workshop.

