

4.1 Lube Oil

Operating Media

4.1.2.1 Specific lube oil definitions

Turbocharged engines with uprated power and engines with high loading

The oils listed in enclosure 1 are to be used for the following engines and applications:
COM/EPA II version and increased output
BF4M 2012/C > 95 kW

BF6M 2012/C > 143 kW (bore 101 + 98-MVS)

BF6M 2012/C > 135 kW (bore 98 mech. FIE)

- all engines in CHP plants
- all engines in gensets operating in parallel with the mains/with each other
- engines in combines with:

These are high-grade oils according to ACEA or API. In addition most of these oils are partly synthetic, some even fully synthetic (5W-40) and thus achieve the thermal stability required for the relevant application and are distinguished by a low tendency to cause deposits in the turbocharger and in the charge air pipes with closed-circuit crankcase breather

Lube oils for engines with uprated power and engines with high loading			
Producer	Type of lube oil	SAE class	Availability
DEUTZ	TXL-10W40 FE	10W-40	
AGIP	Agip Sigma Ultra TFE	10W-40	worldwide
AGIP	Autol Valve Ultra FE	10W-40	Germany
ARAL GmbH	Aral MegaTurboral	10W-40	worldwide
ARAL GmbH	Aral SuperTurboral	5W-30	worldwide
BAYWA	BayWa Super Truck 1040 MC	10W-40	South Gemany
BAYWA	BayWa Turbo 4000	10W-40	South Gemany
Castrol GmbH	Castrol SYNTRUCK	5W-40	Europe, North America, Brazil Argentina, Australia, South Africa
Castrol GmbH	Castrol DYNAMAX	7,5W-40	Europe, North America, Brazil Argentina, Australia, South Africa
CHEVRON	Chevron Delo 400 Synthtic	5W-40	North America
ESSO	Essolube XTS 501	10W-40	Europe
FINA	FINA KAPPA FIRST	5W-30	Europe
FINA	FINA KAPPA ULTRA	10W-40	Europe
FUCHS DEA	DEA Cronos Synth	5W-40	Germany, Europe
FUCHS DEA	DEA Cronos Premium LD	10W-40	Germany, Europe
FUCHS DEA	Fuchs Titan Cargo MC	10W-40	worldwide
FUCHS DEA	Deutz Oel TLL 10W-40 MB	10W-40	Germany
FUCHS DEA	DEA Cronos Premium FX	10W-40	Europe
FUCHS DEA	Fuchs Titan Unic Plus MC	10W-40	worldwide
MOBIL OIL	Mobil Delvac 1 SHC	5W-40	Europe, SE Asia, Africa
MOBIL OIL	Mobil Delvac 1	5W-40	worldwide
MOBIL OIL	Mobil Delvac XHP Extra	10W-40	Europe, SE Asia
BP OIL International	BP Vanellus HT Extra	10W-40	Europe
Shell International	Shell Myrina TX /	5W-30	Europe, different
	Shell Rimula Ultra		description in some countries
Shell International	Shell Myrina TX /	10W-40	Europe, different
	Shell Rimula Ultra		description in some countries
TOTAL	TOTAL RUBIA TIR 86000	10W-40	worldwide
Schmierölr Raffinerie Salzbergen GmbH	Wintershall TFG	10W-40	Europe

The table will be extended as and when required.

6.1 Lubrication System

Service and Maintenance

6.1.1.1 Lube oil change intervals for industrial and marine engines

	Lube oil grade			
	Deutz lube oil quality class	DQC I	DQC II	DQC III
	ACEA-specification	E2-96	E3-96/E5-02	E4-99
	API-specification	CF/CF-4	CG-4/CH-4	-
	Worldwide specification	-	DHD-1	-
	special DEUTZ release list	-	-	Enclosure 1
	Standard lube oil code for building equipment and nonroad vehicles	EO... EO...A, EO...B	EO...C	-
Engine series	Engine version	Lube oil change intervals in op. hours		
		Oil use normal high	Oil use normal high	Oil use normal high
2012	All engines except for:	250	500	500
	BF4M2012C P > 95 kW	-	-	500
	BF6M2012C P > 143 kW, from nonroad stage II at cylinder bore 101 mm or 98 mm with MV system	-	-	500
	BF6M2012C P > 135 kW, from nonroad stage II at cylinder bore 98 mm with mech. injection system	-	-	500
	Other engines from nonroad stage II	-	500	500
	eng. in harv. machines, block-typerthermal power stat., gensets*	-	-	500

*Gensets as referred to here are units operating in parallel with the mains / with each other.
Emergency power units are dealt with in TR 0199-99-1126.

Service and Maintenance

6.1 Lubrication System

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6.1.1.2 Oil change intervals for vehicle engines

		Schmieröl-Qualität			
		Deutz lube oil quality class	DQC I	DQC II	DQC III
		ACEA specification	E2-96	E3-96/E5-02	E4-99
		API specification	CF/CF-4	CG-4/CH-4	-
		worldwide specification	-	DHD-1	-
		special DEUTZ release	-	-	Enclosure 1
Application	Engine version	Lube oil change intervals in km			
Site vehicles/ busses	25	2012 Euro I	10 000	15 000	20 000
		Euro II and Euro III, except for:	-	15 000	20 000
		BF4M2012C > 95 kW from Euro II	-	-	20 000
		BF6M2012C > 143 kW from Euro II at cylinder bore 101 mm with or 98 mm with MV system > 135 kW from Euro II at cylinder bore 98 mm with mechanical injection system	-	-	20 000
Local traffic	40	2012 Euro I	15 000	20 000	30 000
		Euro II and Euro III, except for:	-	20 000	30 000
		BF4M2012C > 95 kW from Euro II	-	-	30 000
		BF6M2012C > 143 kW from Euro II at cylinder bore 101 mm with or 98 mm with MV system > 135 kW from Euro II at cylinder bore 98 mm with mechanical injection system	-	-	30 000
Long distance traffic	60	2012 Euro I	20 000	30 000	40 000
		Euro II and Euro III, except for:	-	30 000	40 000
		BF6M2012C > 143 kW from Euro II at cylinder bore 101 mm with or 98 mm with MV system	-	-	40 000
		> 135 kW from Euro II at cylinder bore 98 mm with mechanical injection system	-	-	40 000

If, for vehicle engines, lube oil change intervals are determined by operating hours, the lube oil change intervals indicated in table 4.1. for "Oil use under normal duty" will apply.