

3.4.4 Special Lubricating Oil Approvals for Operation with MDO / MGO / HFO

If local engine oils are to be used instead of the engine oils recommended in section "Lubricating Oil Brand Recommendations", the following brands can be used for the engines indicated:

Producer	Oil brand	Ap- proval accord-	Region	Let- ter of LG	Fuel type	Engine type
Aegean	Alfamar 430 Alfamar 440	(2)	Greece	LG	HFO	M35 – M601
Bharat Oil	MaK Marine X 404 (TBN 40)	(2)	India		HFO	M35 – M601 M20 – M43
BP	Vanellus Multigrad 15W40	(1)	(D) (15W-40)		Locomotive appli- cations only	12M282 Locomotive engine
Castrol	TPL 204	(1)	(Russia) (08.00)		MGO/MDO	M35 – M601 M20 – M43
DEA	Cronos Super	(1)	D			M35 – M601 M20 – M43
FUCHS	TITAN UNIC 1040 MC	(1)	(D) (10W-40) (00.04.97)		Locomotive appli- cations only	12M282 Locomotive engine
Petro China	KunLun DCB4030H	(1)	China		HFO	M20 – M43
Petromin (In fineum)	Petropower 1-40	?	Saudi Arabia		MGO/MDO	M35 – M601 M20 – M43
Petromin (Lubrizol)	Petroshield 1-40	(2)	Saudi Arabia		MDO/MGO	M35 – M601 M20 – M43
Pertamina (Lubrizol) (Infineum)	Medripal 411	(2)	Indonesia	LG	MDO/ MGO	M35 – M601 M20 – M43
	Medripal 412	(2)		LG	MDO/MGO	
	Medripal 430	(2)		LG	HFO	
	Medripal 440	(2)		LG	HFO	
	Salyx 412	(1)			MDO/ MGO	
Salyx 415	(1)		MDO/MGO			
Salyx 420	(1)		MDO/MGO			
Petron Corp.	Petromar XC 4040	(2)	Philippines		HFO	M35 – M601 M20 – M43
SINOPEC	TPEO4020	(1)	China	LG	MGO/MDO	M35 – M601 M20 – M43
	TPEO4030	(1)		LG	HFO	
	TPEO4040	(1)		LG	HFO	
	TPEO4012	(1)		LG	MGO/MDO	
Statoil	Dieselway 40	(2)	N		MGO	M35 – M601 M20 – M43
	Marway 1040	(2)		MGO		
Valvoline	Valmarin TP 1240	(1)	NL (D) (02/95)		MGO/MDO	M35 – M601 M20 – M43
ZAO Zavod Imeni Shaumyana	M14-D2CE	(1)	Russia		MDO	M20-M43

LG = Letter of Guarantee available