

**Action code: WHEN CONVENIENT****Cylinder and system oils**

MAN B&amp;W low-speed two-stroke engines

SL2019-686/JUSV  
December 2019

Replaces SL2018-663/JUSV

**Concerns**

All MAN B&amp;W ME/ME-C/ME-B/MC/MC-C, ME-GI and ME-LGI engines.

**Summary**

Examples of international cylinder and system oil brands tested in service.

Relevant Service Letters:


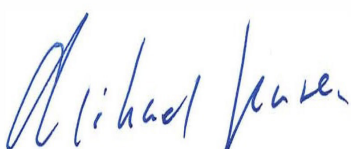
SL2019-671: Cylinder lubrication update for 0 to 0.50% sulphur fuels  
SL2014-587: Cylinder Lubrication Update. Adjusting the ACC factor in service

Dear Sir or Madam

This Service Letter lists major international cylinder and system oil brands available in the market.

For guidelines on how to use the cylinder and system oils, please refer to the most recent lubrication guideline available for your specific engine type, e.g. Service Letters and Circular Letters. Service Letters are available on:  
[www.marine.man-es.com/two-stroke/service-letters](http://www.marine.man-es.com/two-stroke/service-letters)For questions and inquiries regarding the content in this letter, contact our Operation department at: [operation2s@man-es.com](mailto:operation2s@man-es.com)

Yours faithfully

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## Cylinder oils and system oils

Tables 1, 2 and 3 list major international cylinder oil and system oil brands tested in service with acceptable results, and which have passed the testing procedure with acceptable results and obtained a No Objection Letter (NOL). Do not consider these lists to be complete, as other cylinder and system oils, with NOLs from MAN Energy Solutions (Two-stroke Business), can be equally suitable. Always refer to the most recent lubrication guideline for the specific engine type and fuel used, e.g. Service Letters (currently SL2019-671 0-0.5% sulphur fuel and SL2014-587 for high sulphur operation) and Circular Letters.

### Cylinder oils

Cylinder oils with the following main properties are recommended:

- Kinematic viscosity:
  - min. 18.5 cSt at 100°C
  - max. 21.9 cSt at 100°C
- Viscosity Index (VI): min. 95
- High detergency: Keeping ring grooves, ring lands and piston rings clean is important to ensure free movement of the rings.
- Alkalinity or base number (BN) in accordance with the engine requirement, e.g. corrosive level and fuel sulphur content.

Company	Cylinder oil				
	140 BN and higher	100 BN	70 BN	40 BN and higher	15 – 25 BN
<b>Aegean</b>		Alfacylo 100 HS	Alfacylo 570	Alfacylo 540 LS	Alfacylo 525 DF
<b>Castrol</b>	Castrol Cyltech 140	Castrol Cyltech 100	Castrol Cyltech 70	Castrol Cyltech 40SX Castrol Cyltech 40	Castrol Cyltech ACT
<b>Chevron</b>	Taro Ultra 140	Taro Ultra 100	Taro Ultra 70	Taro Ultra 40	Taro Ultra 25
<b>ExxonMobil</b>	Mobilgard 5145	Mobilgard 5100	Mobilgard 570	Mobilgard 540	Mobilgard 525
<b>Gulf Oil Marine</b>	GulfSea Cylcare 50140X	GulfSea Cylcare 50100	GulfSea Cylcare EHP 5070	GulfSea Cylcare DCA 5040H	GulfSea Cylcare ECA 50
<b>JXTG Nippon Oil &amp; Energy</b>		Marine C1005	Marine C705	Marine C405	JX C225
<b>Lukoil</b>	Navigo 140 MCL	Navigo 100 MCL	Navigo 70 MCL AW	Navigo MCL Extra	Navigo MCL Ultra
<b>Shell</b>	Shell Alexia 140	Shell Alexia 100	Shell Alexia 70	Shell Alexia 40	Shell Alexia 25
<b>Sinopec</b>	Sinopec Marine Cylinder Oil 50140	Sinopec Marine Cylinder Oil 50100	Sinopec Marine Cylinder Oil 5070S	Sinopec Marine Cylinder Oil 5040	Sinopec Marine Cylinder Oil 5025
<b>SK Lubricants</b>	SK Supermar Cyl 140	SK Supermar Cyl 100	SK Supermar Cyl 70 plus	SK Supermar Cyl 40	SK Supermar Cyl 25
<b>TOTAL Lubmarine</b>	Talusia HR 140	Talusia Universal 100 Talusia Optima	Talusia HR 70	Talusia LS 40 Talusia Universal (57BN)	Talusia LS 25

Table 1: Examples of international cylinder oil brands which have an NOL from MAN Energy Solutions

### Cylinder oils for ACOM

The ACOM (automated cylinder oil mixing) is a cylinder oil delivery system that automatically mixes two fully formulated cylinder oils to the optimum BN depending on the amount of sulphur in the fuel. Table 2 lists the companies that have finished the testing.

Company	Cylinder oil	
	High-BN cylinder oil	Low-BN cylinder oil
<b>Castrol</b>	Castrol Cyltech 140	Castrol Cyltech ACT
<b>Chevron</b>	Taro Special HT Ultra (140BN) Taro Special HT 100 (100BN)	Taro Ultra 25
<b>Gulf Oil Marine</b>	GulfSea Cylcare 50140X (140BN) GulfSea Cylcare 50100X (100BN)	GulfSea Cylcare ECA 50
<b>Shell</b>	Shell Alexia 140 (140BN) Shell Alexia S6 (100BN)	Shell Alexia 25
<b>TOTAL Lubmarine</b>	Talusia HR 140 (140BN)	Talusia LS 25

Table 2: Cylinder oils which have passed ACOM testing.

**System oils**

We recommend the use of system oils (circulating oil) with the following main properties:

- SAE 30 viscosity grade
- BN level 5-10
- High corrosion protection
- Good anti-oxidant properties
- High detergency and dispersancy.

Company	System oil
Aegean	Alfasys 305
Castrol	Castrol CDX 30
Chevron	Veritas 800 Marine 30
ExxonMobil	Mobilgard 300C
Gulfoil Marine	GulfSea Superbear 3006
SK Lubricants	SK Supermar AS
JXTG Nippon Oil & Energy	Marine S30
Lukoil	Navigo 6 CO
Shell	Shell Melina S 30
Sinopec	System Oil 3005
TOTAL Lubmarine	Atlanta Marine D3005

Table 3: Examples of international system oil brands that have an NOL from MAN Energy Solutions.

Notwithstanding the foregoing, it remains the responsibility of the owner/operator of an engine to ensure that suitable fuel and lube are conditioned and used in order to prevent damage to the engine and other equipment on board.