

SEA-Mate® Blending-on-Board

Fit-for-Purpose lubrication

THE SYSTEM

Originally developed by A.P. Moller-Maersk, SEA-Mate® Blending-on-Board (BOB) technology allows owners to produce a Fit-for-Purpose cylinder lubricant onboard, by blending either the in-use system oil with a higher-BN cylinder oil product, or by mixing a low BN cylinder oil with a high BN cylinder oil.

BOB is the environmentally friendly solution, that can reduce the overall lubrication consumption onboard by up to 40%, while deliver a fuel saving of up to 1.5%.

BENEFITS – Technical

- Flexibility to produce Fit-for-Purpose cylinder oil to meet the operating conditions at any time, keeping minimum feed-rate
- Eliminate cold corrosion and liner bore polishing
- Continuous renewal of system oil in operation and improved hydraulic system reliability
- Reduced friction losses due to correct system oil viscosity

BENEFITS – Financial

- Reduced cylinder oil consumption when running minimum feed-rate and adjustable cylinder oil BN
- Increased TBO and reduced maintenance cost
- Reduced energy consumption and thereby fuel savings
- Reduced system oil losses due to having cleaner system oil
- Return-on-investment usually 1-2 years

EASY TO INSTALL AND USE

- Can be completed during normal operation
- Userfriendly and will reduce crew work relating to lubrication oil
- 24/7 system support and optimization guidance

2020

2020 compliant fuels will bring additional complexity and new characteristics to the fuel types, impacting the cylinder lubrication choices.

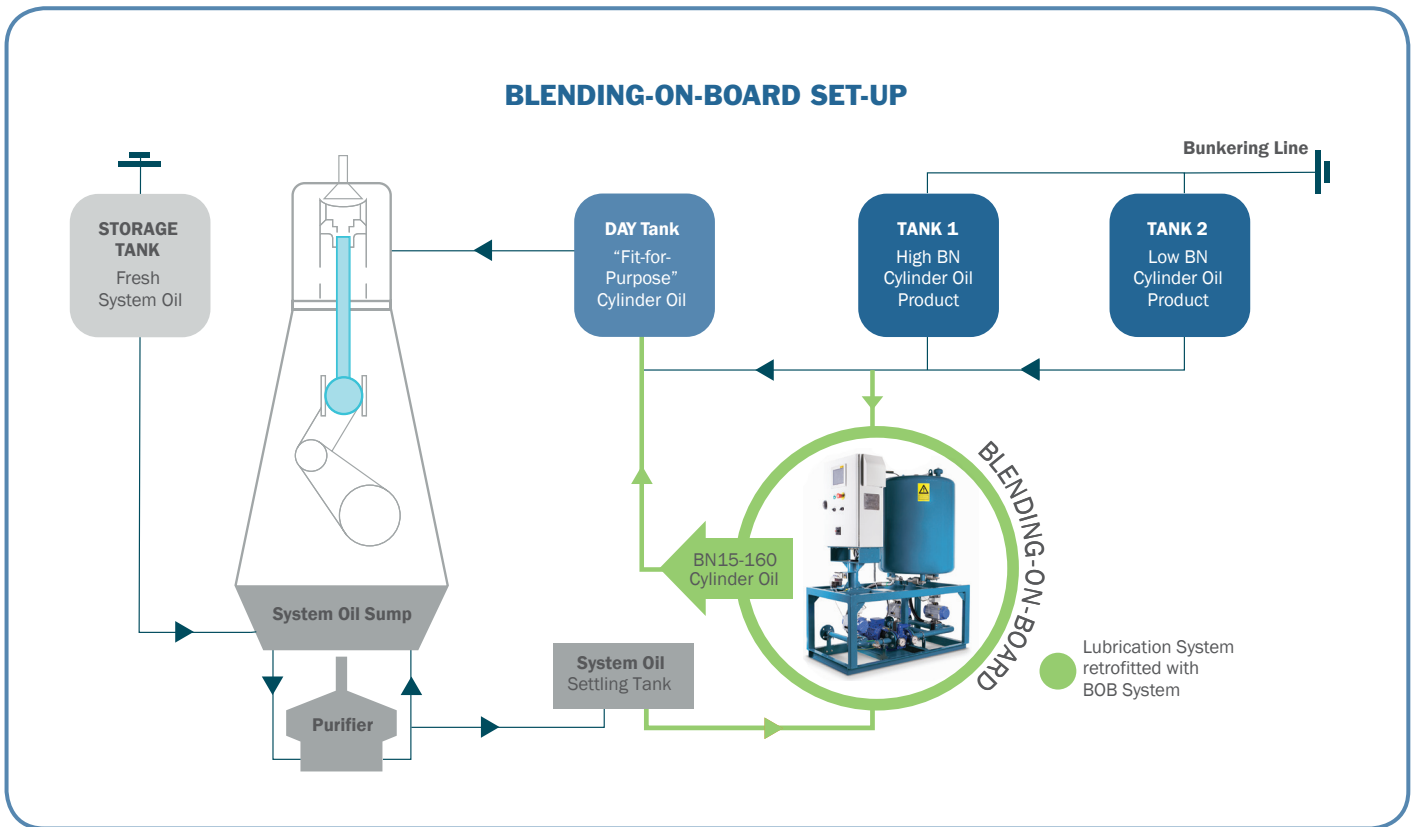
Addressing these challenges while ensuring optimum cylinder unit condition, BOB provides the needed cylinder oil flexibility, by blending a Fit-for-Purpose cylinder oil quality onboard, using the most cost-effective cylinder oils available.

OEM's are recommending a BN range for 2020 compliant fuels of 40-100, combined with diligent scrape down analysis procedures and BOB delivers exactly this.

For scrubber vessels, BOB is also a perfect match, capable of delivering a higher than 100 BN cylinder oil, when required for corrosive-sensitive engines.



The BOB Concept



Product Specifications

PERFORMANCE	SEA-Mate® B500Mk2	SEA-Mate® B1000Mk2	SEA-Mate® B3000
Ingoing cylinder oil product range (BN)	15 - 325	15 - 325	15 - 325
Blended cylinder oil output (BN)	15 - 160	15 - 160	15 - 160
Standard deviation range (BN)	+/- 2	+/- 2	+/- 2
Blending capacity (ltr/workingday)	0 - 300	0 - 300	0 - 2000
Streams that can be blended	3	4+	4+
Operation	Semi-automatic	Semi-automatic or automatic with multiple options for signal input	Semi-automatic or automatic with multiple options for signal input

TECHNICAL

Working temperature (°C)	5-50	5-50	5-50
Dimensions L x W x H (cm)	110 x 60 x 85	110 x 60 x 85	130 x 70 x 170
Weight (kg)	170	170	350
Power requirement	3 x 440V / 6A	3 x 440V / 6A	3 x 440V / 10A

SEA-Mate® Blending-on-Board System has been type approved by Lloyd's Register.

For more information and contact details, please visit us at www.marinefluid.dk