

MAN Energy Solutions, 2450 Copenhagen, Denmark

Bardahl de Mexico S.A. de C.V.  
Eje 1 Norte# 16 Mz. 1  
Parque Industrial Toluca 2000,  
CP:50233  
Toluca, Edo. de Mexico  
Attn.: Juan Alberto Guzman Vazquez  
Email: juana.guzman@bardahl.com.mx

Copenhagen, 21 September 2023

EDF1/JUSV  
Case no: 30249-2023

## Category I. No Objection Letter for cylinder oil BARD AHL NAVAL CYLINDER OIL SAE 50 TBN 100, 100 BN, SAE 50 from Bardahl

Dear Mr Guzman,

This letter replaces the letter with case no: 13159-2020

MAN Energy Solutions (MAN ES) has participated in the testing of basic additive package part of **BARD AHL NAVAL CYLINDER OIL SAE 50 TBN 100**, 100 BN, SAE 50 (the "Lube Oil") in 2015 according to our prevailing field testing procedure (the "Field Test"). The Field Test was performed on a 5S60ME-C8 MAN B&W engine and covered engine operations on heavy fuel oil. The Field Test included more than 1000 service hours and inspections by MAN ES at start and end of test.

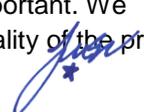
MAN ES has evaluated the Field Test and lab data and found the performance of the Lube Oil acceptable. Different engine types and different engine operation conditions may require different cylinder lubrication feed rates and or oil type. Consequently, the result of this Field Test cannot be held out as a general statement.

MAN ES has No Objection to the usage of the Lube Oil in our MAN B&W two-stroke engine designs provided that the recommendations in our prevailing engine-type specific guidelines are followed.

This No Objection is valid until 31 December 2025.

Engine-type specific guidelines, engine-design, operation pattern, legislation and economic conditions all influence the lubrication in a direct or indirect way and they are all subjected to changes. As a consequence, MAN ES reserves the right to revise or withdraw the No Objection to the usage of the Lube Oil if the usage of the Lube Oil is deemed to not be applicable for all or certain engines types.

Quality assurance and MAN monitoring of product performance are important. We expect that **Bardahl** has processes in order to assure that the quality of the product is acceptable and suitable for its intended use.



**MAN Energy Solutions**  
Tegholmegade 41  
2450 Copenhagen SV  
Denmark  
  
P +45 33 85 11 00  
F +45 33 85 10 30  
info-cph@man-es.com  
www.man-es.com

MAN PrimeServ  
Tegholmegade 41  
2450 Copenhagen SV  
Denmark  
P +45 33 85 11 00  
F +45 33 85 10 49  
PrimeServ-cph@man-es.com

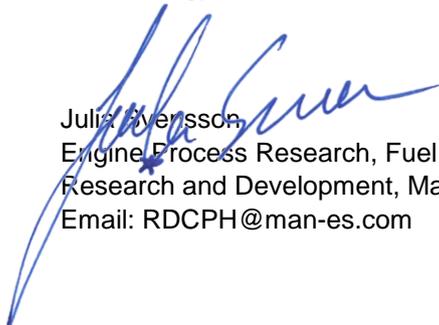
PRODUCTION  
Tegholmegade 35  
2450 Copenhagen SV  
Denmark  
P +45 33 85 11 00  
F +45 33 85 10 17  
manufacturing-dk@man-es.com

FORWARDING & RECEIVING  
Tegholmegade 35  
2450 Copenhagen SV  
Denmark  
P +45 33 85 11 00  
F +45 33 85 10 16  
shipping-cph@man-es.com

**MAN Energy Solutions**  
Branch of MAN Energy Solutions SE,  
Germany  
CVR No.: 31611792  
Head office: Tegholmegade 41  
2450 Copenhagen SV  
Denmark  
German Reg.No.: HRB 22056  
Amtsgericht Augsburg

As the Lube Oil is neither produced nor sold by MAN ES, MAN ES cannot be held responsible for any damage to the engine or engine components that may be caused by the use of the Lube Oil. Only the full and complete version of this No Objection Letter may be reproduced and/or displayed by the receiver.

Best regards,  
MAN Energy Solutions

A handwritten signature in blue ink, appearing to read 'Julia Svensson', is written over the printed name and extends upwards and to the left.

Julia Svensson  
Engine Process Research, Fuel & Lube (EDF1)  
Research and Development, Marine Low Speed  
Email: RDCPH@man-es.com