

MAN Energy Solutions, 2450 Copenhagen, Denmark

Grupa Lotos S.A

Ul. Elblaska 135
80-718 Gdansk
Poland

Attn. Mrs Anna Kobylanska

Email: anna.kobylanska@grupalotos.pl
technology@grupalotos.pl

Copenhagen, 13 March 2020

EEEDF4/JUSV/
Case no: 14512-2020

No Objection Letter for cylinder oil Marinol RG 7050, 70 BN, SAE 50 from LOTOS

Dear Mrs Kobylanska

MAN Energy Solutions (MAN ES) has participated in the testing of the basic additive package that is part of Marinol RG 7050, 70 BN, SAE 50 (the "Lube Oil") in 2008 according to our prevailing field testing procedure (the "Field Test"). The Field Test was performed on a 6S90ME-C MAN B&W engine and covered engine operations on high sulphur fuel. The Field Test included inspections by MAN ES at start and end of test.

MAN ES has evaluated the Field Test 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 three years from date, that is until 19 March 2023. Before the period is ended LOTOS can apply for a renewal of the No Objection.

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 monitoring of product performance are important. We expect that LOTOS 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

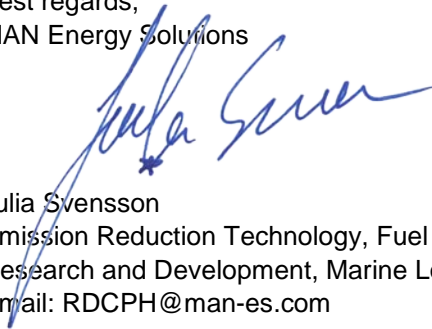
PRODUCTION
Tegholmegade 35
2450 Copenhagen SV
Denmark
P +45 33 85 11 00
F +45 33 85 10 17
manufacturing-dk@man-es.com

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



Julia Svensson
Emission Reduction Technology, Fuel & Lube (EEEDF4)
Research and Development, Marine Low Speed
Email: RDCPH@man-es.com

