



Ref #: PEQAC0860/16

Approval Lukoil Efforse 4004 SAE40

To whom it may concern:

Based upon the successful completion of the "Testing Procedure for Engine Lubricating Oil Approval" we grant an approval for the above mentioned lubricant for the use in MAN Diesel & Turbo 4 stroke medium speed engines. This lubricant is suitable for natural gas (LNG, CNG) operation. This approval covers the following products:

Product Name	SAE Viscosity Grade	TBN	Oil Code #
Lukoil Efforse 4004	40	Confidential	Confidential

Only the above stated Master Code # and Code #(s) including rebrands have been issued and approved.

This approval is valid for two years (until October 2018) provided there are no changes in formulation (base oil, additives). The approval needs to be prolonged after October 2018 according to the most current "Testing Procedure for Engine Lubricating Oil Approval" at that time.

The Master Code # including any of the above stated Code #(s) may be withdrawn at MAN Diesel & Turbos sole discretion at any time if any of the following reasons apply: The lubricant does not fulfill the lubrication as previously tested; the lubricating oil characteristics change during real-life engine operation regarding engine cleanliness and/or wear & tear rates; the lube oil formulation is proven to be the cause for an engine damage; any changes in the lube oil formulation; any changes in lube oil characteristics that increase the lube oil consumption beyond MAN Diesel & Turbo's specifications (e.g. lacquering, increased evaporation loss due to high shear); increased temperatures (e.g. bearings); unusual running pattern on the bearing surface; engine technology outdates the additive technology. For reasons of completeness we emphasize that, in any case, the lube oil Master Code # owner must take over the full warranty for the lube oil formulation including all above stated Oil Code #(s) thereof and that are referenced and bound to the Master Code #.

Yours truly,

MAN Diesel & Turbo SE

i.V. 
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i.A. 
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