

MAN Energy Solutions, 2450 Copenhagen, Denmark

GreenOil Standard ApS  
Att. Magnus Bang  
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Copenhagen, 19 August 2020

Ref. 23145-2020

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**No objection letter for GreenOil system lubricating oil filter  
GreenOil: Marine Lube Oil WP1-PX-XXX system with 2702E elements  
Two-stroke engines: All types and fuels**

Dear Sir or Madam,

Test on one ship using an off line lubrication filtration unit with a GreenOil filter as the only cleaning unit (without centrifuge operating) has shown positive results. We do therefore have no objection to use an off line GreenOil filter (type as described above) for system lubricating oil cleaning based on the following:

- A centrifuge should be available and ready to use in case it is needed to remove excessive water from the lubricating oil as the GreenOil filter is only capable of absorbing small amount of water or in case of a failure of the GreenOil filter.
- Two WIO (Water In Oil) sensors should be installed – one at the lubricating oil inlet to engine, the other at the outlet of the off line GreenOil filter unit. Both should be connected to the alarm system.
- The normal in-line safety lubricating oil filters are kept in place.
- The GreenOil filter unit should be dimensioned for a nominal flow of 0.136 l/kWh.
- Lubricating oil samples should be obtained at regular intervals, analysed and evaluated. Proper action should be taken based on results.

As this product is neither produced nor sold by MAN Energy Solutions, MAN Energy Solutions cannot be kept responsible for any damage to engines or engine components that may be caused by the use of this product.

Should you have any questions, please contact [MarineInstallation2S@man-es.com](mailto:MarineInstallation2S@man-es.com)

This no objection letter is valid until 31 August 2021 or until it is canceled, whichever is first.

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Best regards



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