



FUEL OIL TREATMENT

The VECOM MARINE fuel oil principle is:
The correct identification of the problem is the first step and a necessity for the correct choice and application of the most suitable product.

FEATURES & BENEFITS



VECOM MARINE has a new approach to FOT with state-of-the-art treatment and specially designed test equipment. FOT is very important in the marine industry, especially with today's marine distillates and heavy residual fuels. Compatibility products, combustion improvers, combustion catalysts, lubricity improvers and soot removers are necessary to operate the vessel efficiently.

Before we can treat the fuel on-board, or the fuel system, we need to understand the system. We also need to understand the problems and the symptoms that arise within the system.

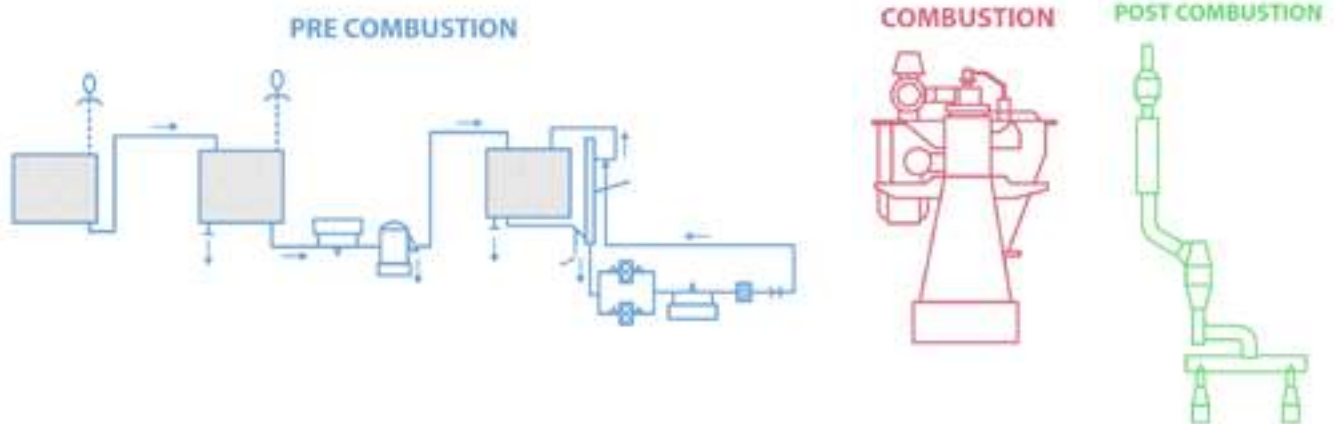
The crew needs to test the fuel and the crew needs to treat the fuel in accordance with the test results or the symptoms that arise.

To make this as easy as possible to understand, we at VECOM MARINE have separated the fuel oil treatments into three areas:

1. **Pre-combustion**
2. **Combustion**
3. **Post-combustion**

In the below diagrams and on the following pages, we hope to help the engineers on board the vessel to correctly identify the problem or to correctly take the result from the fuel oil test kit, in order to choose the right product to treat the symptom.

What is important? We do not want you to throw away money when there is nothing wrong with the system, the fuel, or the test. Remember the correct identification of the problem is the first step and a necessity for the correct choice and application of the most suitable product.

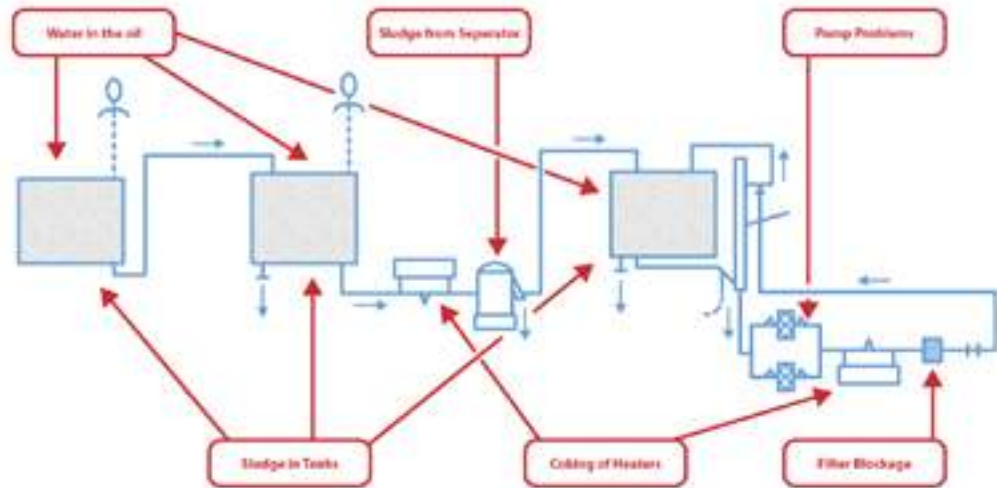


For product characteristics and for the nature of special risks and safety advice consult our MSDS.
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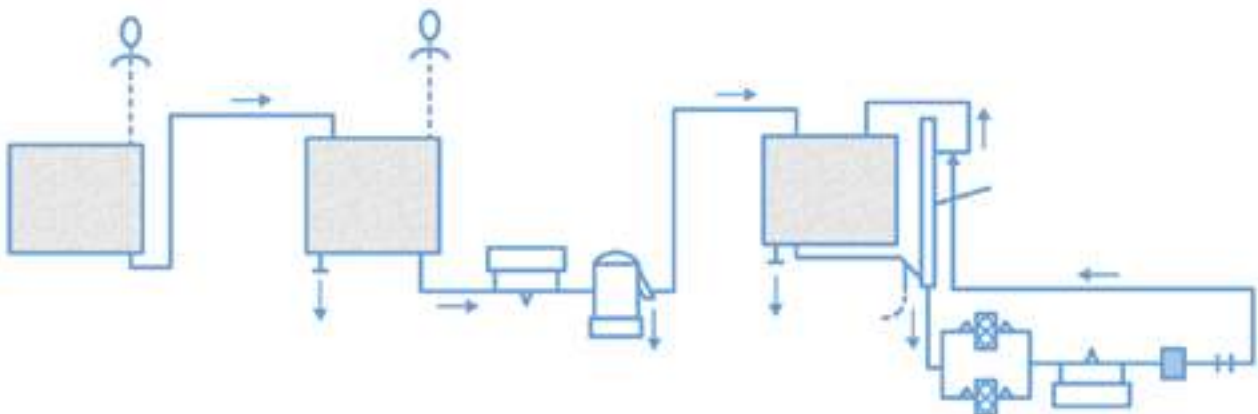
PRE-COMBUSTION

PROBLEMS & SOLUTIONS



PROBLEM	SOLUTION
Water in the fuel, Sludge from the separator, Pump problems, Sludge in the tanks, Coking of heaters, Filters blocked	FOT SLUDGE DISPERSANT

PRE COMBUSTION



Bacteria in distillate fuel, residual fuel, lube oils & low-sulphur fuels containing biofuel

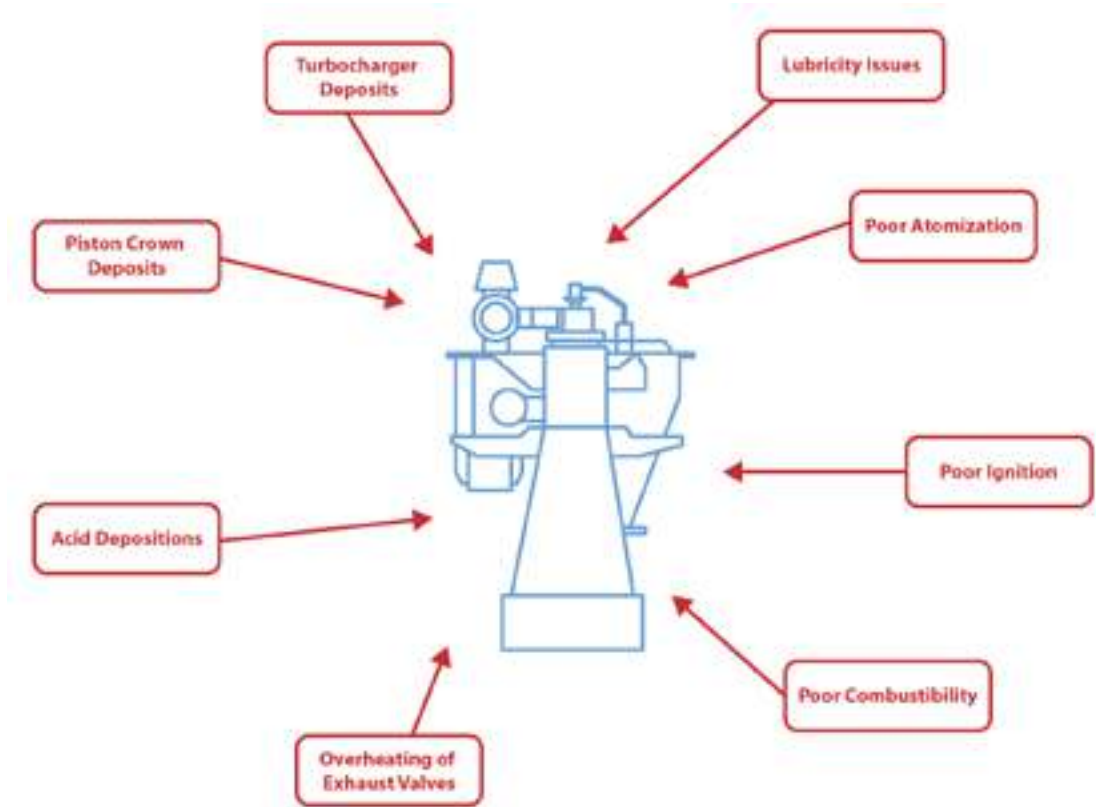
PROBLEM	SOLUTION
Bacteria in the full fuel system	FOT BACTERIA CONTROL

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COMBUSTION

PROBLEMS & SOLUTIONS



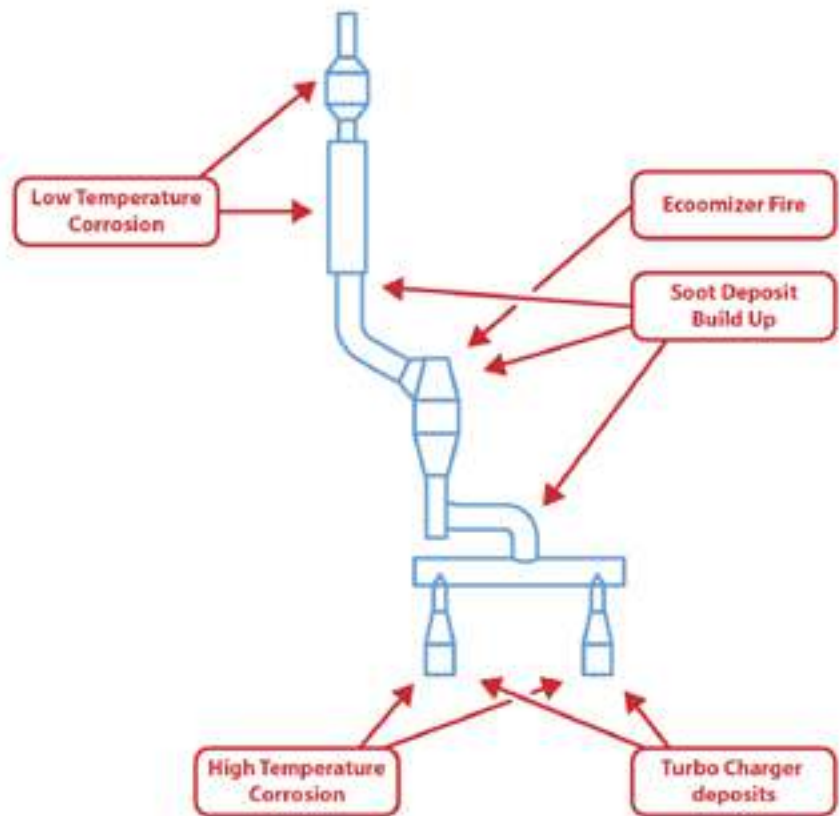
PROBLEMS	SOLUTIONS
Poor atomization, Poor ignition	FOT SLUDGE DISPERSANT
Low-sulphur fuels, Lubricity issues	FOT LI 4100
Piston crown deposits, Acid deposits, Overheating of exhaust valves, Poor atomization, Poor ignition, Poor combustibility	FOT COMBUSTION CATALYST VALVE TREAT
Turbocharger deposits	ASTEROIDS

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POST-COMBUSTION

PROBLEMS & SOLUTIONS



PROBLEM	SOLUTION
Low temperature corrosion, High temperature corrosion, Turbocharger deposits	VALVE TREAT, FOT COMBUSTION CATALYST, ECONOMIZER TREAT GAS SIDE CLEANER
Soot deposit build-up, Economizer fire	SOOT REMOVER POWDER, SOOT REMOVER LIQUID GAS SIDE CLEANER

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