

Engine Group
6 Turbocharger System

Engine Type
Nohab

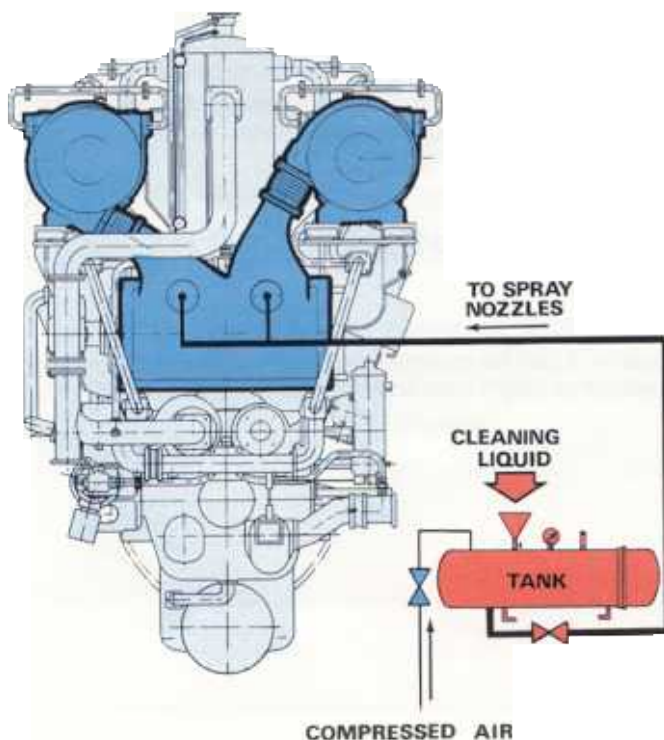
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Improved Engine Economy with: **Air Heat Exchanger Cleaning System**



Arrangement of heat exchanger cleaning system on F30-type engine.

Preventive maintenance, and checks on the condition of an engine, always have a beneficial effect on reliability and, therefore, on the overall cost of the engine installation. The value of preventive maintenance is particularly significant in the case of the air intake system of the engine. Increasing deposits of dirt in this system, introduced with the outside air, inevitably cause deterioration in the performance of the heat exchanger and in the efficiency of the engine.

A drop in the performance of the heat exchanger results in a rise in the temperature of the intake air and an increase in the specific volume of the air. The consequence is that the quantity of air fed to the cylinders is reduced. This, in its turn, causes a rise in the temperature of the exhaust gas and an increase of the thermal load on the engine. High exhaust gas temperature also increases the risk of corrosive deposits on the exhaust valves.

Good results with cleaning equipment

Engines designed for operation on heavy fuel are now fitted, as standard, with easily operated cleaning equipment which has been specially developed for cleaning heat exchangers and charge-air supply systems, while the engine is running at normal full speed. The results of tests in the field show that this equipment is extremely effective against all forms of dirt deposits, throughout the whole system. It has also been found that regular cleaning with this type of equipment increases the length of life of exhaust valves and exhaust valve seats.

Based on the good results that have been obtained, we now also recommend installation of cleaning equipment in engines running on distillate fuels.



The equipment included in the cleaning system can easily be installed in all F-type engines.

Components and function of the equipment

The equipment includes a pressurized tank containing the cleaning fluid; the tank is connected to the compressed air supply of the engine installation. It feeds one or two (depending on type of engine) injection nozzles and is also fitted with additional safety components, etc. The cleaning fluid contains a non-inflammable, non-toxic and biologically-degradable substance, emulsified in de-ionized water. No adverse effects of the cleaning fluid on the engine or the environment have been observed.