

Diesel Fuel/MGO & Engine Lube Oil

Rolls-Royce Bergen Main Engines, 3 x 2880 KW

CUSTOMER SAVINGS & BENEFITS

Installing CJC® Oil & Diesel Filter solutions on the main engines, the following benefits were obtained:

- Sludge problem eliminated
- Diesel pest removed (microbes)
- Improved working environment
- Easy oil maintenance & service



One of the three main engines at the supply vessel "Far Solitaire" Solstad Offshore Norway



CUSTOMER

Vessel: Far Solitaire
Shipping company: Solstad Offshore, Norway

SYSTEM

System: Rolls-Royce Bergen, Main Engines x 3, C25:33L9ACD, 2880 KW
Oil type: Diesel Fuel/MGO & Engine Lube Oil
Oil volume: 1,510 l/h & 1,800 l/h

PROBLEMS

The customer had problems with water in the fuel and sludge production, as the fuel was cleaned with a centrifugal separator (fuel purifier). The sludge had to be separated into water and sludge (fuel oil). Water would be discharged through a bilge water separator, and sludge burned in an incinerator.

SOLUTION

To remove water, a CJC® Filter Separator PTU 27/108 was installed on the fuel system of the main engine parallel with the centrifugal separator. Furthermore, to remove particles and other contaminants from the engine lube oil, 3 CJC® Fine Filters HDU 27/108 were installed - one oil filter for each engine.

CUSTOMER BENEFITS

After the CJC® HDU Fine Filters and the CJC® PTU Filter Separator were installed, there was no more sludge production and water was removed continuously from the fuel. This solution-setup is very easy to inspect and maintain, as the filter units consist of only pumps, a built-in water-separator (PTU), and an oil filter (HDU). Maintenance like replacement of the CJC® Filter Insert incl. clean up takes only appx. 1 hour. Burning of sludge generated by the centrifugal separator was no longer needed, as the CJC® Solutions were installed to clean both diesel and lube oil of the engines. The bilge water separator is now only in use to separate the bilge water.

WORKING ENVIRONMENT

The previously used centrifugal separator had to be disassembled three times a year for cleaning/service and one time for overhaul. This job took at least one workday, and expensive parts were often needed. Furthermore, issues during running time between services were eliminated. After the installation of the CJC® Solutions, the engineers only need to visually inspect the pressure gages on the three oil and fuel filters.



CJC® Filter Separator PTU 27/108 for cleaning of the diesel fuel



CJC® Fine Filter HDU 27/108 for cleaning of the lube oil



Mr. Roger Johansen, Chief Engineer:

"We are very happy with the fuel and lube oil filters. This is many times better and cheaper than separators. And this makes the daily working environment for the engineers in the engine room much better."



CCMA7037-UK
Supply Vessel
Main Engine
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