

LNG Tanker, Diesel Engine, Engine Fuel Marine Gas Oil, MGO

CUSTOMER SAVINGS & BENEFITS

By installing CJC® Oil Filtration solutions, the following benefits were obtained:

- Prevented de-bunkering and replacing fuel, which resulted in savings of **988,944 EUR**.
- Smooth operation of engines, leading to less downtime.
- Lower OPEX in man hours and power consumption.
- Less sludge accumulation.

CUSTOMER

LNG Tanker company, Norway.

SYSTEM

System: Engine Fuel
Oil type: MGO fuel
Oil volume: 960,000 ltr

PROBLEM

The MGO fuel in the storage tank of an LNG tanker was contaminated with sea water and asphaltenes built-up due to residues of heavy fuel.

This led to several issues for one of their engines:

Pilot injectors stuck in an open position, fuel injection equipment sticking, in-line filters and centrifugal purifiers clogging that required manual cleaning. The current separators were unable to remove the high concentration of sea water in the fuel. As it stood, the solution was to remove and debunker the MGO fuel in the storage tank and replace it with new fuel. As this was very costly, the customer looked at renting a CJC® Filter Separators to test if it could remove sea water and asphaltenes from the MGO fuel.

SOLUTION

A CJC® Filter Separator PTU3 27/81 with CJC® Filter Inserts 3 x FA 27/27 was installed. Dirt holding capacity of 12 kg, varnish holding capacity of 12 kg and continuous removal of water from the oil.

TEST

A CJC® PTU3 27/81 unit was rented and installed onboard. The full volume of fuel was first filtered to a clean storage tank, followed by another storage tank and back again to the first tank.

RESULT

After using the rental CJC® PTU3 27/81 with 54 x CJC® FA Filter Inserts, a total of 960,000 ltr of MGO fuel has been filtered through a 3-month period. The PTU3 27/81 has cleaned the MGO fuel to standard and has removed the need to replace and debunker the fuel, which has resulted in a savings of **988,944 EUR**.

In addition, the engines were running smoothly after the CJC® installation, leading to less downtime, while the OPEX and sludge accumulation has also been reduced.



LNG Tanker with CJC® Fuel Filter installed.



Asphaltenes due to residues of heavy fuel in the tank.



Asphaltenes on components from the centrifugal purifier.



CJC® Filter Separator PTU3 27/81.



Dirty CJC® Filter Insert, having removed the contaminants from the fuel.

RESULTS

	Amount	Price EUR	Cost EUR
SAVINGS ON:			
Diesel in bunker, ltr	480,000	1.37	657,600
Cost of debunking, ltr	480,000	0.73	350,400
COSTS:			
PTU3 27/81, rental	1		- 12,738
Filter Inserts used & Service	54	117	- 6,318
Total savings, EUR			EUR 988,944



CCMA7040-UK
Tankers
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