

AHTS, STB Stern Tube, Lube Oil CJC® Oil Filtration

CUSTOMER SAVINGS & BENEFITS

Installing a CJC® Desorber/ Filter Combi Unit D5, the following benefits were obtained:

- Water content in the oil has been significantly reduced, **from 7186 ppm to 144 ppm** - going from a critical level to a nominal level
- Avoided emergency docking.
- Prolonged vessel operation.

CUSTOMER

AHTS (Anchor Handling Tug Supply Vessel), Denmark.

SYSTEM

System: STB Stern Tube
Oil type: Total Disola M 4015
Oil volume: 1,600 L

PROBLEMS

A change to a new oil type in the system had led to increased water content in the oil over time. The new oil (Total Disola), had poor demulsibility compared to the good demulsibility of the previous oil. The previous oil filtration equipment was not working efficiently with this new oil, and a new solution was needed.

SOLUTION

A **CJC® Desorber/Filter Combi Unit D5** (3x440V @ 60 Hz) was installed with the goal to reduce the water content in the oil at the STB Stern Tube, by efficiently removing the emulsified water, that was found in the oil.

BENEFITS

By reducing the water content, the risk of mechanical failure in the stern tube was significantly reduced. The water content went from a critical level to a normal level. Downtime was reduced as well as the maintenance costs and need for spare parts. In total, having dry oil prolonged the vessel operation and emergency docking was avoided.

TEST

6 oil samples were taken to measure the water content in the Total Disola M 4015 oil; 1 taken a day prior to installation of the CJC® Desorber/Filter Combi Unit D5 followed by 5 samples taken over a 4-week period.

RESULTS

The oil samples verified that the CJC® Desorber/Filter Combi Unit D5 reduced the water content from 7,186 ppm to 144 ppm in the stern tube in a 4-week span. Based on general guidelines for stern tubes systems, the water has gone from a critical level to a nominal level of water content within one month.



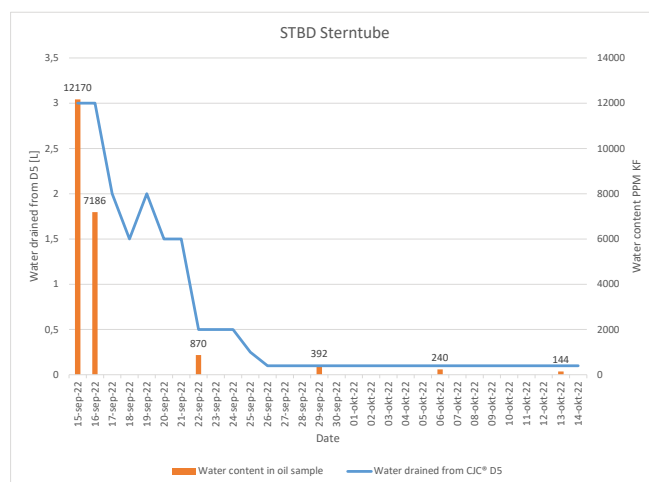
CJC® Desorber/Filter Combi Unit D5 installed on the lube oil system of the STB Stern Tube of the AHTS.

TEST



6 oil samples from the Total Disola M 4015 oil - taken over a 4-week period.

RESULTS



Water content was reduced from 7186 ppm to 144 ppm, going from a critical level to a nominal level of water in the oil - within one month!



CCMA7039-UK
Supply Vessel
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