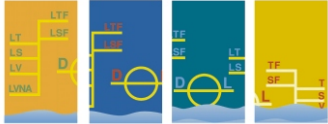




C.C.JENSEN
OIL FILTRATION SYSTEMS



MARINE

Application Study written by
Bryan Holden C.C. Jensen Ltd. (U.K.)

CJC™ Application Study

Bow Thruster - Gear Oil

CUSTOMER

Gulf Offshore, Aberdeen, Scotland
Vessel: "Highland Fortress"
Type: Supply vessel
Contact person: Operations Superint.
John Scott

THE SYSTEM

2 off Ulstein thrusters type 150 TV (bow). Oil type: Mobil SHC 629 (150 cSt), approximately 800 litres per thruster system.

THE PROBLEM

The oil was contaminated with water, particles and resin deposits leading to frequent oil changes and subsequent dry docking.

THE SOLUTION

CJC™ Filter Separator Unit PTU2 27/27 PM-DH1PW with 2 off 1.65 kW preheaters and automatic water discharging, using **CJC™ Filter insert type BLAT 27/27** (3 micron absolute). Water separation by means of a CJC™ coalescing element.

THE TEST

The filter separator unit was installed between the two bow thrusters and had a valve system installed enabling the unit to operate on one thruster unit at a time.

The oil samples were taken through a sampling point before the CJC™ Filter - one prior to start up and one after a short period of filtration/separation.

THE RESULTS

The remarkable in this case is the speed in which the CJC™ unit was able to reduce the water content in the oil. In less than 48 hours the state of the oil was brought from "not usable" to "usable" and a considerable amount of solid particles was removed as well - including resinous oxidation products.



CJC™ Filter Separator Unit PTU2 27/27 PM-DH1PW

THE RESULTS

Thruster System	Before	After
Hours of filtration	0	48
Water content ppm	25,490	1,720
Particle cont. 2 µm	>1,000,000	<250,000
ISO 4406 Class	21/19/16	18/17/13



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