



CLIENT

Tide sjø in Norway is a subsidiary company of Tide ASA with a fleet of 80 vessels. MF Hardingen is a ferry, trafficking Hordaland on the Norwegian west coast

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APPLICATION

Hydraulic power unit - Bow hydraulics

CHALLENGE

OVERHEATING, NOISES AND TROUBLE WITH VALVE MANEUVERS

Onboard MF Hardingen, one of the hydraulic power units that operate the bow hydraulic port was overheating and making a lot of noise during operation.

The high temperature caused varnish deposits to build up rapidly within the hydraulic system, creating trouble with valve maneuvers and interfering with the hydrostatic balance within the oil system.



SOLUTION

AN EUROPAFILTER OIL FILTRATION UNIT

In order to solve the noise and overheating problems, an Europafilter oil filtration unit was connected to the oil reservoir. The unit cleaned the contaminated oil causing the overheating and loud noise. A vast amount of contamination was removed from the hydraulic oil system. Varnish deposits were efficiently removed and the temperature reduced.



RESULT

A DECREASE OF TEMPERATURE FROM 70° C TO 40° C

Six days after the installation, the temperature had decreased from 70° C to 45° C, and the NAS value had gone from 8 to 4. After another 43 days with the Europafilter installed, the temperature were down to 40° C and the NAS value was 3.

The problems disappeared with the new safe operating conditions and a cleaner oil system - giving less wear, friction, energy consumption and noise in the machine room environment.

