HY-PRO FILTRATION

S.O.S: V1S Saves Season for Fishing Vessel

Prevents Unnecessary Downtime & Hydraulic Fluid Replacements

The Problem

When a seal fails on your net hauler hydraulics out at sea, the costs and lost profits stack up quickly. In this instance, salt water began entering the hydraulic fluid on a 245 ft (75 m) purse seiner through a seal leak, rendering the net hauler out of commission. Faced with frequent fluid exchanges at a cost of $9300 plus disposal, or worse, substantially larger lost profits from downtime for replacement of the seal, the vessel owner was in desperate need for a solution to allow him to continue operating without fear of malfunctioning equipment.

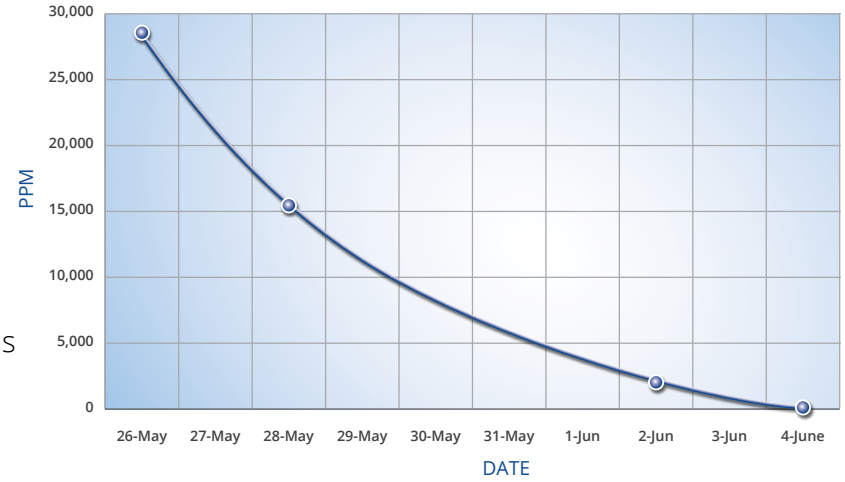
The Solution

Through fluid analysis it was found that the 265 gal. (1000L) reservoir of ISO VGA 32 hydraulic fluid contained 28564 ppm of water. If the ppm could not be reduced below 200 ppm it would inevitably have to be replaced.

A goal of reducing the water content to < 150 ppm was set and a V1S portable vacuum dehydrator was installed on the reservoir. The V1S ran for 10 days with samples for analysis being drawn on days 1, 3, 8 and 10.

The Results

With the V1S in service the water content in the hydraulic reservoir was reduced to a level where the net hauler was functioning properly again even before reaching the 150ppm target. Breaking down the numbers, the V1S removed at least 7 gallons / 26.5 liters of water and even more depending on ingression. The fishing vessel was able to continue operations and avoid frequent expensive oil replacement by installing the V1S.



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