OIL ANALYSIS REPORT

MURPHY ZEUS/MERCURY ZEUS/MERCURY - INBOARD (S/N NOT GIVEN) - PORT GEARBOX

Sample No: VPA058087

Oil Type: NOT GIVEN

SAMPLE INFORMATION VPA058087 VPA043390 VPA040360 Sample Number Sample Date 20 Dec 2023 03 Aug 2022 26 Jul 2022 Machine Hours 0 0 0 0 0 0 **Oil Hours** Oil Changed N/A N/A N/A NORMAL SEVERE Sample Status SEVERE T: **OIL CONDITION** F: Visc @ 40°C cSt 39.1 38.2 162 CONTAMINATION % Water NEG NEG NEG Silicon <1 ppm 10 6 Sodium 0 0 1 ppm Potassium ppm 5 0 1 WEAR METALS PO 21 20 43 25 47 Iron ppm 14 Copper 727 21 614 ppm Lead 21 < 1 18 ppm < 1 Tin 0 <1 ppm Aluminum ppm 3 1 2 Chromium ■ <1 0 <1 ppm 47 49 Molybdenum 49 ppm Nickel ppm 0 <1 0 Titanium 0 0 ppm <1 Silver 0 0 ppm < 1 <1 Manganese <1 ppm | <1 Vanadium 0 0 0 ppm **ADDITIVES** 2534 81 Calcium 2539 ppm 0 Magnesium ppm 16 17 Zinc ppm 837 2 781 Phosphorus ppm 740 276 703 Barium 0 0 ppm 2 Boron 241 2 220 ppm

VOLVO PENTA

Walstrom Marine - 767948 501 Bay Street HARBOR SPRINGS, MI US 49740 Contact: MARK LEWIS mlewis@walstrom.com T: F.

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.The copper level is severe. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

 Depot:
 VP154879

 Unique No:
 10802999

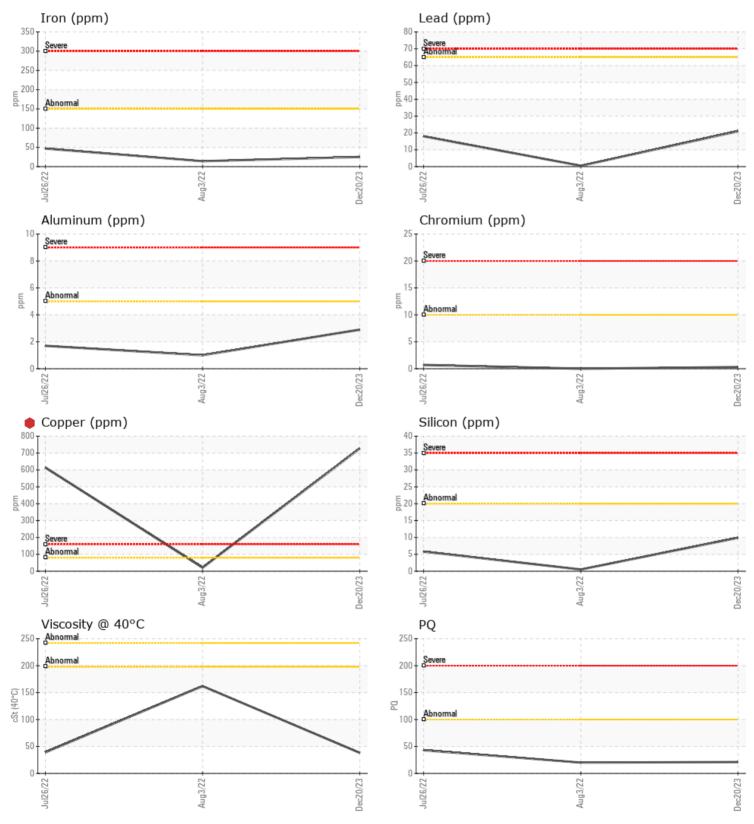
 Signed:
 Jonathan Hester

 Report Date:
 26 Dec 2023

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GRAPHS



Report Id: VP154879 [WUSCAR] 06042391 (Generated: 12/26/2023 19:07:52) Rev: 1

Contact/Location: MARK LEWIS - VP154879