OIL ANALYSIS REPORT

HOWIE ZF 20058811 - INBOARD - STARBOARD GEARBOX

Sample No: VPA057039

Oil Type: {unknown}

SAMPLE INFORMATION Sample Number VPA057039 Sample Date 10 Apr 2024 Machine Hours 1211 0 **Oil Hours** Oil Changed N/A ABNORMAL Sample Status Т٠ **OIL CONDITION** F: Visc @ 40°C cSt 97.1 CONTAMINATION % Water NEG Silicon ppm 8 Sodium 7 ppm Potassium ppm 4 WEAR METALS PO 37 43 Iron ppm Copper ppm 176 Lead 9 ppm 2 Tin ppm Aluminum ppm **110** Chromium ppm 1 Molybdenum 64 ppm 2 Nickel ppm Titanium <1 ppm Silver <1 ppm 2 Manganese ppm Vanadium <1 ppm **ADDITIVES** 2201 Calcium ppm Magnesium ppm 197 Zinc ppm 1055 Phosphorus ppm 995 Barium <1 ppm 29 Boron ppm



Outstanding Marine PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

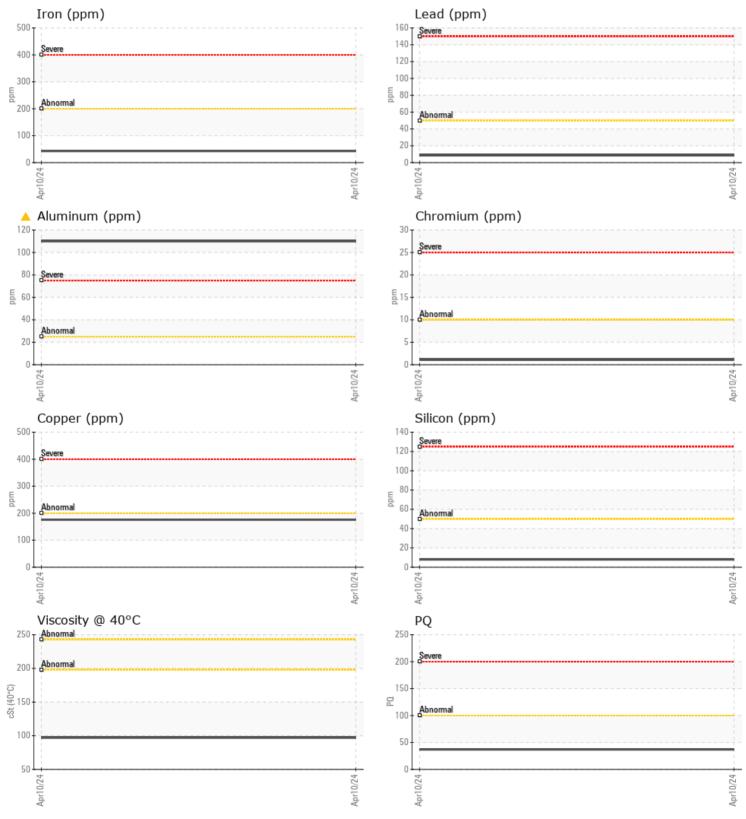
Depot: VP153685 Unique No: 10982395 Signed: Doug Bogart Report Date: 19 Apr 2024

Contact/Location: Ronda Bolinger - VP153685

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GRAPHS



Report Id: VP153685 [WUSCAR] 06152317 (Generated: 04/19/2024 11:05:31) Rev: 1

Contact/Location: Ronda Bolinger - VP153685