OIL ANALYSIS REPORT

COLIN MADDEN PATRICK 502474-8750 ZF 20404326 - INBOARD - PORT GEARBOX

Sample No: VPA059044

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION Sample Number VPA059044 VPA045929 23 Oct 2023 Sample Date 26 Jun 2023 Machine Hours 1121 200 38 **Oil Hours** 0 Oil Changed Changed Not Changd ATTENTION Sample Status ATTENTION **OIL CONDITION** Visc @ 40°C cSt 85.9 88.4 CONTAMINATION Silicon ppm 13 13 Sodium ppm 2 **4** Potassium 9 2 ppm WEAR METALS PO 106 90 Iron 101 99 ppm **268** Copper ppm **258** Lead ppm 3 5 Tin ppm 3 2 Aluminum 5 6 ppm Chromium ppm ■ <1 < 1 Molybdenum 45 46 ppm Nickel 2 2 ppm Titanium ppm <1 <1 Silver ppm 0 <1 Manganese ■ <1 1 ppm Vanadium 0 0 ppm ADDITIVES Calcium ppm 3287 3561 Magnesium 16 20 ppm 1085 Zinc ppm 1152 Phosphorus ppm 993 1037 Barium ■ <1 0 ppm 463 51 Boron ppm

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP794951

 Unique No:
 10713912

 Signed:
 Don Baldridge

 Report Date:
 30 Oct 2023

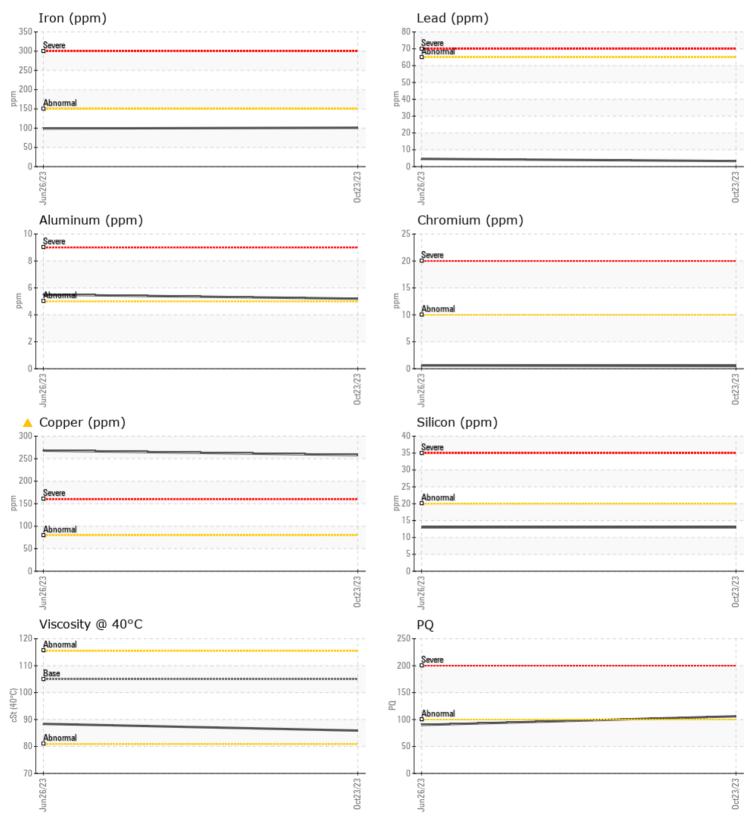
Contact/Location: WILLOW YANARELLA - VP794951



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 05991250 (Generated: 10/31/2023 17:24:25) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951