## **OIL ANALYSIS REPORT**

### MURRMAN AK 502485 ONAN 1190637209 - GENSET

Sample No: VPA059186

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

#### SAMPLE INFORMATION Sample Number VPA059186 Endor Marine LLC - Coastal Marine - 152124 Sample Date 24 Oct 2023 4300 11th Ave. NW Machine Hours 317 SEATTLE, WA 0 **Oil Hours** US 98107 N/A Oil Changed Contact: WILLOW YANARELLA NORMAL Sample Status service@coastalmarineengine.com **OIL CONDITION** Visc @ 100°C cSt 13.7 Base Number (BN) mg KOH/g 8.7 Oxidation (PA) % 52 CONTAMINATION Soot % % 0.1 % Nitration (PA) 63 Sulfation (PA) % 50 % Glycol NEG Fuel % <1.0 Silicon ppm 5 Sodium 5 ppm Potassium ppm **4** WEAR METALS Iron ppm 4 1 Copper ppm Lead ppm 0 Tin **|** <1 ppm Aluminum 3 ppm Chromium **||** < 1 ppm Molybdenum ppm 2 Nickel ■ <1 ppm Titanium <1 ppm Silver ppm 0 Manganese 0 🔲 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1313 ppm Magnesium 732 ppm 850 Zinc ppm Phosphorus ppm 707 Barium ppm **||** <1 99 Boron ppm Depot:

T: (206)784-3703 F: (206)784-8823 Diagnosis Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN

result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

VP794951 Unique No: 10723691 Signed: Don Baldridge **Report Date:** 02 Nov 2023

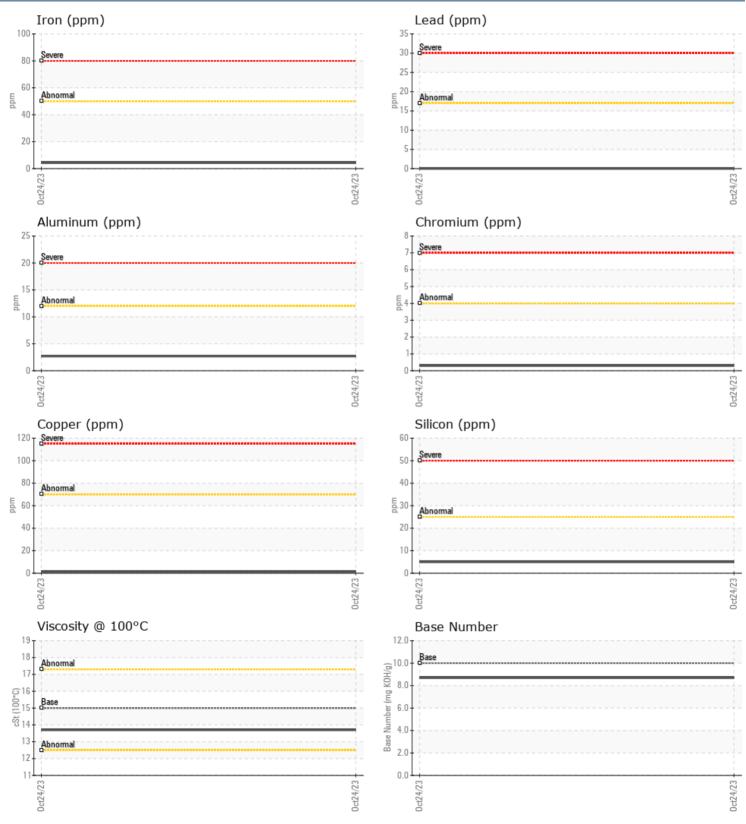
Contact/Location: WILLOW YANARELLA - VP794951



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### GRAPHS



Report Id: VP794951 [WUSCAR] 05995331 (Generated: 11/06/2023 16:53:18) Rev: 1

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