## **OIL ANALYSIS REPORT**

### DEAN HOLMES PATRICK 502464-5250 VOLVO PENTA 7011405449 - PORT DIESEL ENGINE

Sample No: VPA059102

Oil Type: DIESEL ENGINE OIL SAE 40

#### SAMPLE INFORMATION VPA059102 VPA036009 Sample Number Sample Date 16 Nov 2023 09 Sep 2021 Machine Hours 508 310 **Oil Hours** 95 10 Oil Changed Changed N/A NORMAL Sample Status NORMAL **OIL CONDITION** 12.4 Visc @ 100°C cSt 13.6 Base Number (BN) mg KOH/g 9.8 Oxidation (PA) % 56 61 CONTAMINATION % NFG Water NEG % Soot % 0.2 0 Nitration (PA) % 48 42 Sulfation (PA) % 53 59 Glycol % NEG NEG Fuel % 1.1 <1.0 Silicon 5 5 ppm Sodium 1 1 ppm Potassium **||** <1 0 ppm WEAR METALS Iron 4 3 ppm 16 3 Copper ppm Lead ppm **||** < 1 < 1 Tin <1 ppm ■ <1 Aluminum < 1 ppm **||** <1 Chromium <1 < 1 ppm 59 Molybdenum ppm 54 Nickel ■ <1 0 ppm Titanium ppm 0 🔲 0 Silver 0 0 ppm Manganese <1 < 1 ppm Vanadium 0 ppm <1 **ADDITIVES** 1085 Calcium 1096 ppm Magnesium **1017** 941 ppm Zinc ppm 1286 1249 Phosphorus ppm 1080 1008 Barium 0 0 ppm Boron ppm 0 6

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

Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. 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 suitable for further service.

 Depot:
 VP794951

 Unique No:
 10755300

 Signed:
 Jonathan Hester

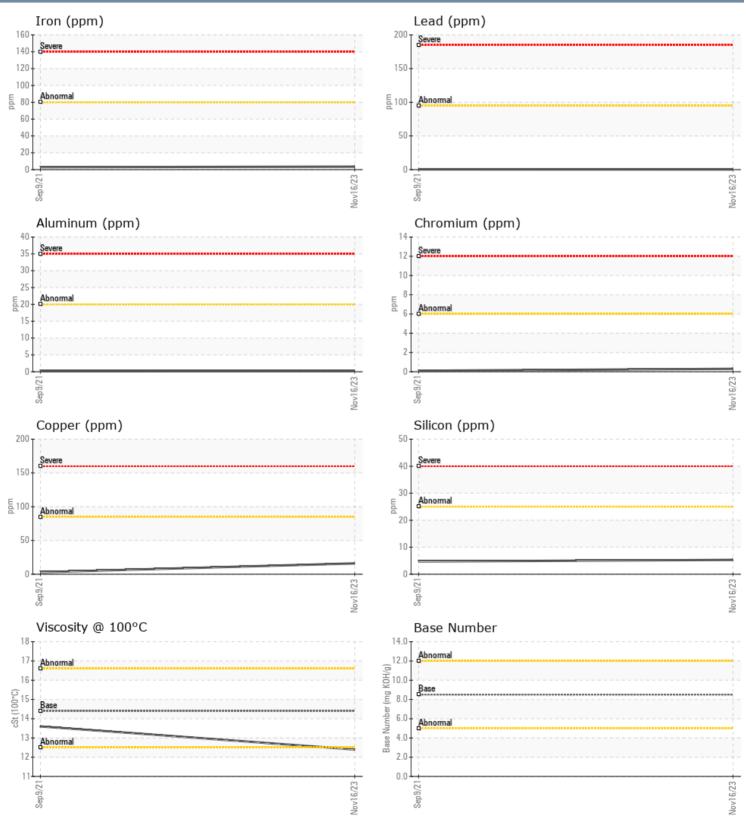
 Report Date:
 28 Nov 2023



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP794951 [WUSCAR] 06016156 (Generated: 12/02/2023 02:31:56) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951