## **OIL ANALYSIS REPORT**

### RICHARD TADLOCK 502567 VOLVO PENTA 2006039640 - STARBOARD DIESEL ENGINE

Sample No: VPA059633

Oil Type: VOLVO PENTA SAE 15W40

#### SAMPLE INFORMATION Sample Number VPA059633 VPA045525 Sample Date 07 Mar 2024 07 Mar 2023 Machine Hours 1215 1136 0 **Oil Hours** 50 N/A Oil Changed Changed NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 12.9 13.4 Base Number (BN) mg KOH/g 10.0 10.0 Oxidation (PA) % 57 57 CONTAMINATION % Water NEG NFG % Soot % 0.1 0.1 Nitration (PA) % 45 49 % Sulfation (PA) 51 53 Glycol % NEG NFG Fuel % <1.0 <1.0 Silicon 3 4 ppm Sodium 0 🔲 0 ppm Potassium 0 🔲 ppm <1 WEAR METALS 4 Iron ■ <1 ppm **||** <1 2 Copper ppm Lead 0 🔲 ppm < 1 Tin <1 ppm ■ <1 Aluminum 2 ppm **|** <1 Chromium 0 < 1 ppm Molybdenum 58 60 ppm Nickel 0 <1 ppm Titanium ppm 0 🔲 0 Silver 0 0 ppm Manganese 0 🔲 < 1 ppm 0 Vanadium ppm 0 **ADDITIVES** 1065 Calcium 1030 ppm Magnesium 960 895 ppm Zinc ppm 1241 1208 Phosphorus ppm 1073 1036 Barium 0 0 ppm Boron ppm 0 ■ < 1

Contact/Location: WILLOW YANARELLA - VP794951

VP794951

10925645

Don Baldridge

14 Mar 2024

Depot:

Signed:

Unique No:

**Report Date:** 

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

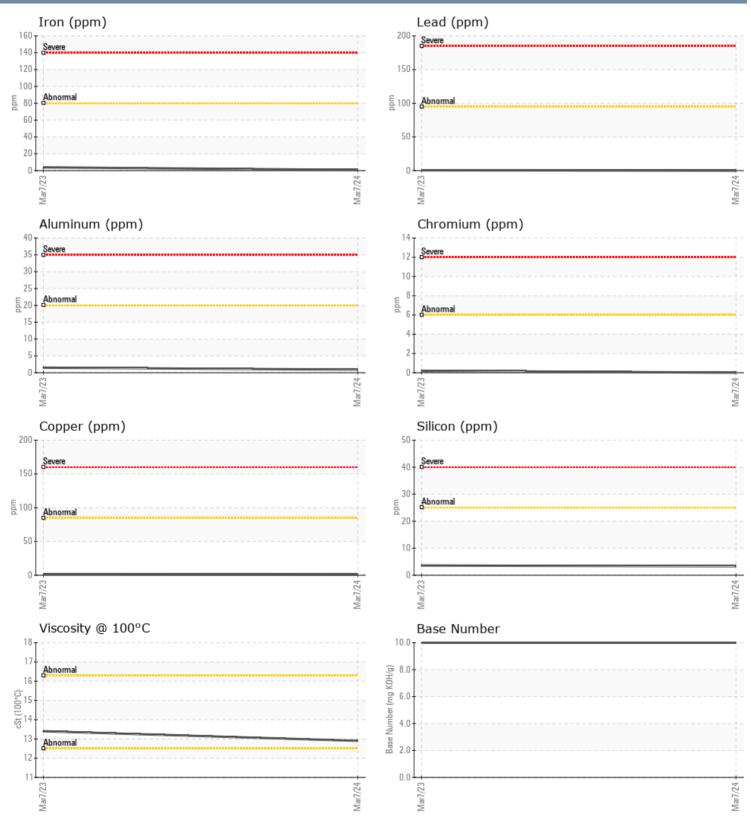
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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#### GRAPHS



Report Id: VP794951 [WUSCAR] 06116812 (Generated: 03/15/2024 23:14:38) Rev: 1

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