## **OIL ANALYSIS REPORT**

### 50-55 3499 VOLVO PENTA A1157767 - STARBOARD DIESEL ENGINE

Sample No: VPA049739

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

#### SAMPLE INFORMATION VPA049739 Sample Number Sample Date 10 Nov 2023 Machine Hours 300 **Oil Hours** 0 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** F: Visc @ 100°C cSt 13.4 Base Number (BN) mg KOH/g 10.2 Oxidation (PA) % 53 CONTAMINATION Soot % % 0.2 % Nitration (PA) 39 Sulfation (PA) % 50 % Glycol NEG Fuel % <1.0 Silicon ppm 5 Sodium 1 ppm Potassium ppm **||** <1 WEAR METALS Iron ppm 4 2 Copper ppm Lead ppm <1 Tin ■ <1 ppm Aluminum ppm 2 Chromium **|** <1 ppm Molybdenum ppm 53 Nickel ■ <1 ppm Titanium 0 🔲 ppm Silver ppm 0 🔲 Manganese **||** <1 ppm Vanadium 0 ppm **ADDITIVES** Calcium 1085 ppm Magnesium 875 ppm Zinc ppm 1196 Phosphorus ppm 989 Barium ppm 0 🔲 Boron ppm 16



GRAND BANKS 450 SW SALEM RD STUART, FL US 34994 Contact: ROBERT ANTONA roberta@gbmarinegroup.com T: (609)384-5290

#### 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.

 Depot:
 VP531377

 Unique No:
 10743033

 Signed:
 Don Baldridge

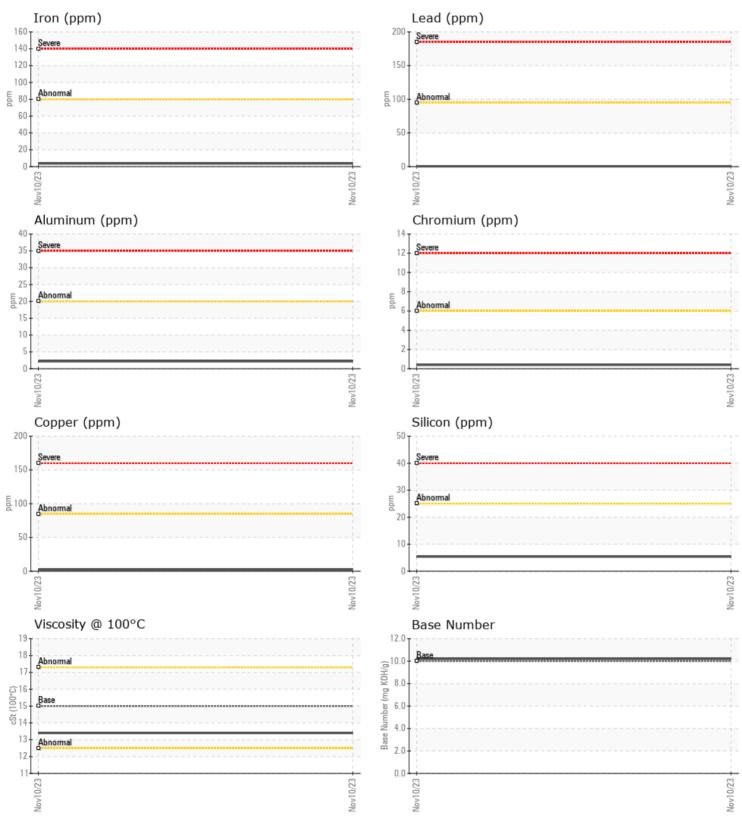
 Report Date:
 19 Nov 2023

Contact/Location: ROBERT ANTONA - VP531377

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#### GRAPHS



Report Id: VP531377 [WUSCAR] 06009271 (Generated: 11/19/2023 10:58:42) Rev: 1

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