## **OIL ANALYSIS REPORT**

### TANURY HS VOLVO PENTA 7011376044 - STARBOARD DIESEL ENGINE

Sample No: VPA044069

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

#### SAMPLE INFORMATION VPA044069 VPA040840 Sample Number 16 Jul 2023 Sample Date 15 Nov 2021 Machine Hours 944 778 **Oil Hours** 0 178 Oil Changed Changed Changed NORMAL Sample Status NORMAL **OIL CONDITION** 12.6 Visc @ 100°C cSt 12.5 Base Number (BN) mg KOH/g 9.5 Oxidation (PA) % 64 64 CONTAMINATION 0.4 Soot % % 0.5 % Nitration (PA) 67 63 Sulfation (PA) % 58 59 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 5 4 Sodium 3 6 ppm Potassium 2 <1 ppm WEAR METALS Iron ppm 9 9 44 37 Copper ppm Lead ppm 1 🔲 < 1 Tin ■ <1 1 ppm Aluminum ■ <1 < 1</p> ppm <1 Chromium 0 ppm Molybdenum 59 ppm 61 Nickel 1 <1 ppm Titanium **||** <1 0 ppm Silver ppm 0 🔲 < 1 Manganese ■ <1 < 1 ppm Vanadium 0 <1 ppm **ADDITIVES** 1112 Calcium 1157 ppm Magnesium 1043 996 ppm **1362** Zinc ppm 1175 Phosphorus ppm 1060 1107 Barium ppm 0 🔲 0 Boron ppm ■ <1 2

Point Judith Marina

360 Gooseberry Road WAKEFIELD, RI US 02879 Contact: MATT ST. ANGELO service@pjmarina.com;canastasio@wearcheckusa.com T: (401)789-7189 F: (401)783-5350

**VOLVO PENTA** 

#### 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.

 Depot:
 VP153811

 Unique No:
 10576301

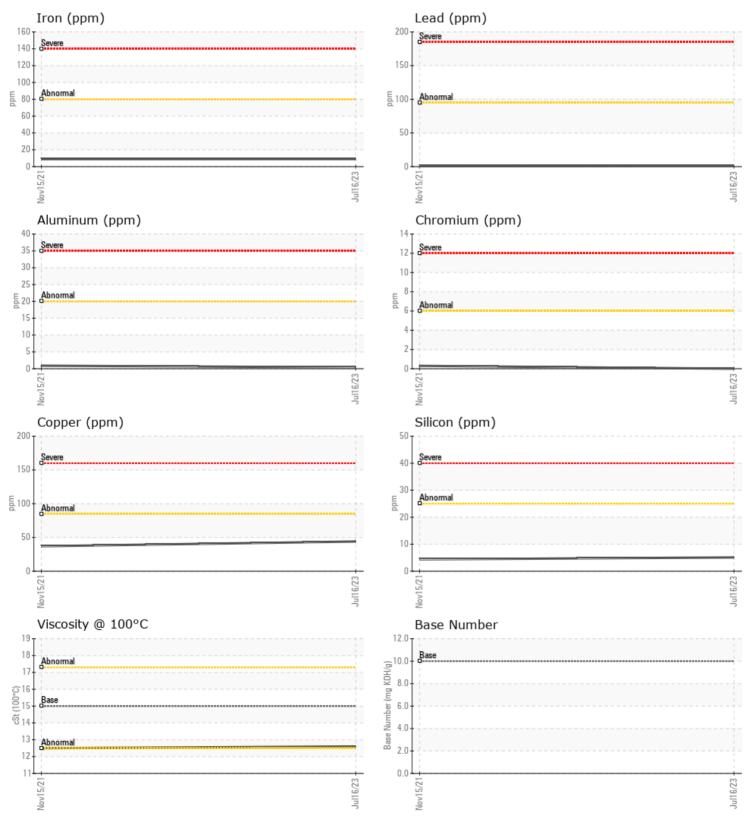
 Signed:
 Doug Bogart

 Report Date:
 30 Jul 2023

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#### GRAPHS



Report Id: VP153811 [WUSCAR] 05909649 (Generated: 08/01/2023 10:05:54) Rev: 1

Contact/Location: MATT ST. ANGELO - VP153811