## **OIL ANALYSIS REPORT**

### ARIA VOLVO PENTA A161117 - STARBOARD DIESEL ENGINE

Sample No: VPA021452

**Oil Type: DIESEL ENGINE OIL SAE 40** 

#### SAMPLE INFORMATION VPA021452 Sample Number Sample Date 16 Apr 2024 Machine Hours 905 20 **Oil Hours** Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** F: Visc @ 100°C cSt 13.6 Base Number (BN) mg KOH/g 9.3 Oxidation (PA) % 53 CONTAMINATION % NEG Water % Soot % 0.1 Nitration (PA) % 38 % Sulfation (PA) 50 Glycol % NEG Fuel % <1.0 Silicon 6 ppm Sodium 0 🔲 ppm Potassium 0 🔲 ppm WEAR METALS Iron 17 ppm 0 Copper ppm Lead 0 🔲 ppm Tin 0 ppm Aluminum ppm **||** <1 Chromium ppm <1 58 Molybdenum ppm Nickel 0 ppm Titanium ppm 0 🔲 Silver 0 ppm Manganese 0 🔲 ppm Vanadium ppm 0 **ADDITIVES** Calcium 1061 ppm Magnesium 946 ppm Zinc ppm 1210 1030 Phosphorus ppm Barium 0 🔲 ppm Boron ppm 7 Depot: Unique No: Signed:

Report Id: VP153685 [WUSCAR] 06151712 (Generated: 04/19/2024 11:03:22) Rev: 1

**Outstanding Marine** 

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net Т٠

#### 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.



Contact/Location: Ronda Bolinger - VP153685

**Report Date:** 

VP153685

10981790

Doug Bogart

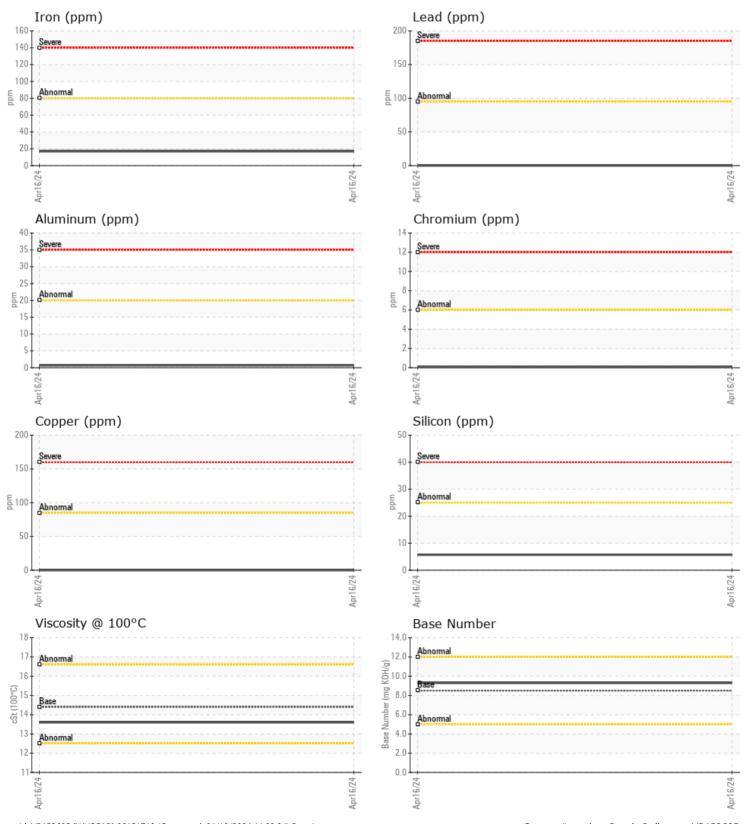
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#### GRAPHS



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