OIL ANALYSIS REPORT

VOLVO PENTA

RNZ01347 - STARBOARD DIESEL ENGINE

Sample No: VPA050613

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION VPA050613 VPA040232 Sample Number Sample Date 07 Sep 2023 19 Nov 2021 Machine Hours 980 585 0 0 **Oil Hours** Oil Changed N/A N/A NORMAL NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.36 13.6 Base Number (BN) mg KOH/g 7.6 Oxidation (PA) % 66 76 CONTAMINATION 0.1 Soot % % 0.5 % Nitration (PA) 72 52 Sulfation (PA) % 59 61 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 5 4 Sodium 3 4 ppm Potassium 5 6 ppm WEAR METALS 34 Iron ppm 11 58 10 Copper ppm < 1 Lead ppm 1 🔲 Tin ■ <1 <1 ppm Aluminum ppm 0 < 1</p> <1 Chromium 1 ppm Molybdenum 17 ppm 9 Nickel ■ <1 < 1 ppm Titanium 0 🔲 < 1 ppm Silver 0 🔲 <1 ppm Manganese ■ <1 < 1 ppm 0 Vanadium <1 ppm **ADDITIVES** Calcium 2432 2291 ppm Magnesium 274 50 ppm Zinc ppm 1355 🔲 1061 Phosphorus ppm 1077 981 Barium ppm 0 🔲 0 113 146 Boron ppm

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2 NAPLES, FL US 34104 Contact: KEITH SPICER keith_advanceddiesel@yahoo.com T: (239)580-8731 F:

Diagnosis

No corrective action is recommended at this time. 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:
 VPADVNAP

 Unique No:
 10643602

 Signed:
 Doug Bogart

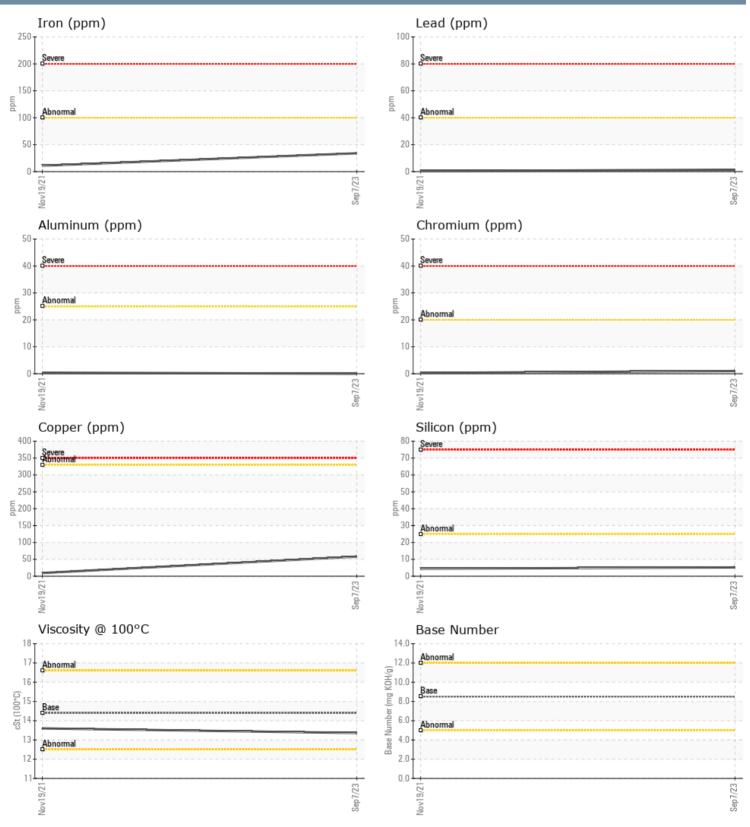
 Report Date:
 12 Sep 2023

Contact/Location: KEITH SPICER - VPADVNAP

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GRAPHS



Report Id: VPADVNAP [WUSCAR] 05947643 (Generated: 09/12/2023 16:48:11) Rev: 1

Contact/Location: KEITH SPICER - VPADVNAP