OIL ANALYSIS REPORT

VOLVO PENTA

H070099257 - STARBOARD GENSET

Sample No: VPA050614

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION VPA050614 VPA040229 Sample Number Sample Date 07 Sep 2023 19 Nov 2021 Machine Hours 1178 946 0 **Oil Hours** 0 Oil Changed N/A N/A NORMAL NORMAL Sample Status **OIL CONDITION** Visc @ 100°C 13.78 cSt 13.8 Base Number (BN) mg KOH/g 8.6 Oxidation (PA) % 66 82 CONTAMINATION 0.1 Soot % % 0.1 % Nitration (PA) 51 50 Sulfation (PA) % 57 64 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 4 3 Sodium 3 5 ppm Potassium 7 7 ppm WEAR METALS Iron ppm 4 3 **4** 1 Copper ppm < 1 Lead ppm <1 Tin ■ <1 <1 ppm < 1 Aluminum ppm 0 <1 Chromium **||** < 1 ppm Molybdenum 10 < 1 ppm Nickel 0 < 1 ppm Titanium 0 🔲 < 1 ppm Silver ppm 0 🔲 <1 Manganese ■ <1 < 1 ppm Vanadium 0 <1 ppm **ADDITIVES** Calcium 2516 2231 ppm Magnesium 69 21 ppm Zinc ppm 1293 1063 Phosphorus ppm 1052 970 Barium ppm 0 🔲 0 216 Boron ppm 188

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:
 10643603

 Signed:
 Doug Bogart

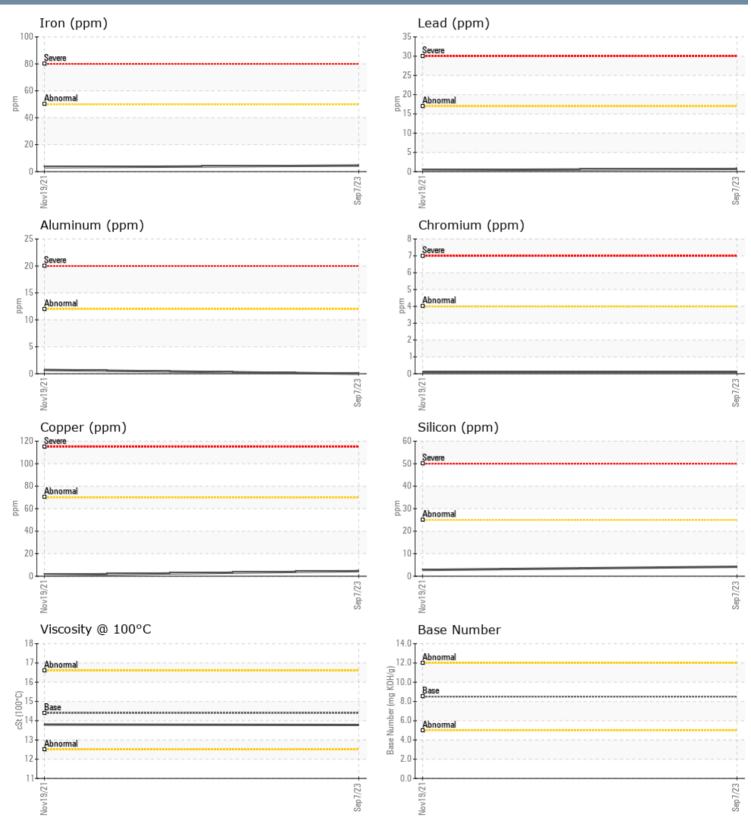
 Report Date:
 12 Sep 2023

Contact/Location: KEITH SPICER - VPADVNAP

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GRAPHS



Report Id: VPADVNAP [WUSCAR] 05947644 (Generated: 09/12/2023 16:48:18) Rev: 1

Contact/Location: KEITH SPICER - VPADVNAP