OIL ANALYSIS REPORT

VOLVO PENTA A545938 - STARBOARD DIESEL ENGINE

Sample No: VPA056875

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION Sample Number VPA056875 Sample Date 28 Nov 2023 Machine Hours 679 0 **Oil Hours** Oil Changed N/A NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 12.9 Base Number (BN) mg KOH/g 7.2 Oxidation (PA) % 32 CONTAMINATION % NEG Water % Soot % 0.1 Nitration (PA) % 35 % Sulfation (PA) 42 Glycol % NEG Fuel % <1.0 Silicon 3 ppm Sodium 2 ppm Potassium 0 ppm WEAR METALS 8 Iron ppm 2 Copper ppm Lead ■ <1 ppm Tin 0 ppm Aluminum **||** <1 ppm ppm Chromium 0 15 Molybdenum ppm Nickel ■ <1</p> ppm Titanium ppm 0 🔲 0 Silver ppm Manganese 0 🔲 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1910 ppm Magnesium 88 ppm Zinc ppm 969 Phosphorus ppm 830 Barium 0 🔲 ppm Boron ppm 27

 Depot:
 VPJOHDEE

 Unique No:
 10766440

 Signed:
 Don Baldridge

 Report Date:
 04 Dec 2023

Contact/Location: NEIL JOHNSTON - VPJOHDEE



JOHNSTONS MARINE SERVICES

1850 NW 15th AVENUE, SUITE 205 POMPANO BEACh, FL US 33069 Contact: NEIL JOHNSTON neil@1jms.com T: (984)448-0813 F:

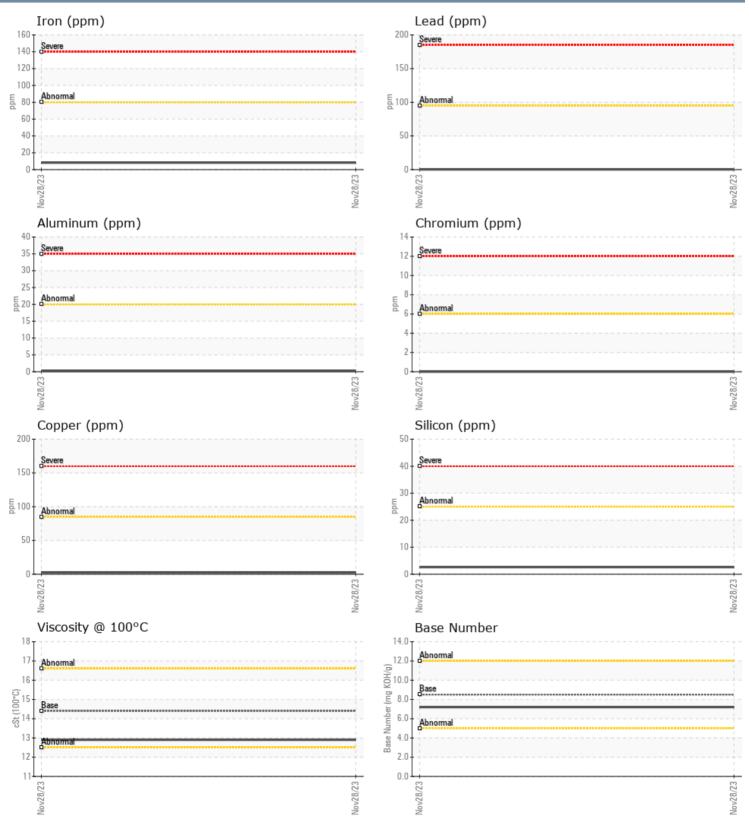
Diagnosis

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.

OIL ANALYSIS REPORT



GRAPHS



Report Id: VPJOHDEE [WUSCAR] 06021940 (Generated: 12/04/2023 14:11:49) Rev: 1

Contact/Location: NEIL JOHNSTON - VPJOHDEE