OIL ANALYSIS REPORT

ZACH MAY VOLVO PENTA A 1104473 - STARBOARD GASOLINE ENGINE

Sample No: VPA036931

Oil Type: VOLVO 10W40 SYNTHETIC

SAMPLE INFORMATION VPA036931 VPA044766 Sample Number Sample Date 18 Oct 2023 15 Nov 2022 Machine Hours 80 75 25 **Oil Hours** 10 Oil Changed Changed Changed ATTENTION Sample Status ATTENTION **OIL CONDITION** Visc @ 100°C **12.0 11.7** cSt Base Number (BN) mg KOH/g 8.1 7.2 Oxidation (PA) % 9 10 CONTAMINATION 0.1 Soot % % 0 🔲 % Nitration (PA) 7 8 Sulfation (PA) % 10 10 % Glycol NEG NEG Fuel % <1.0 **2**.9 Silicon ppm 19 27 Sodium ■<1 0 ppm Potassium **||** <1 2 ppm WEAR METALS 10 Iron ppm 5 58 46 Copper ppm Lead ppm 0 0 Tin ■ <1 <1 ppm Aluminum 1 ppm ■ <1 < 1 Chromium **||** < 1 ppm Molybdenum 34 39 ppm Nickel 0 0 ppm Titanium 0 0 ppm Silver ppm 0 0 Manganese 5 7 ppm 0 0 Vanadium ppm **ADDITIVES** Calcium 1583 1821 ppm 23 Magnesium 11 ppm 710 800 Zinc ppm Phosphorus ppm 630 682 Barium ppm 0 0 Boron ppm 2



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VOLVO PENTA

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

 Depot:
 VP1080862

 Unique No:
 10714081

 Signed:
 Jonathan Hester

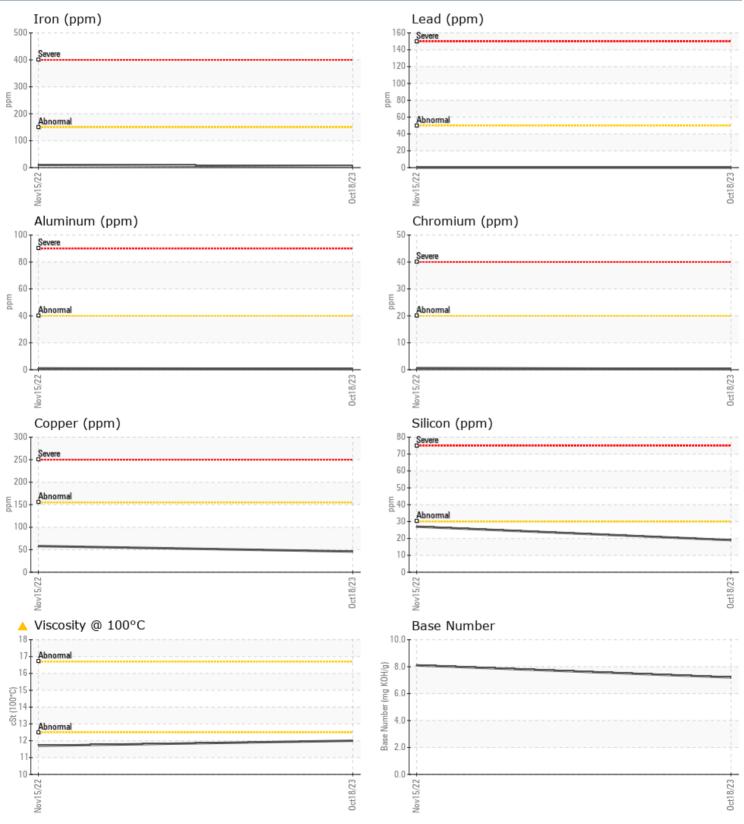
 Report Date:
 01 Nov 2023

Contact/Location: JONATHAN PAIGE - VP1080862

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GRAPHS



Report Id: VP1080862 [WUSCAR] 05991419 (Generated: 11/01/2023 11:49:22) Rev: 1

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