## **OIL ANALYSIS REPORT**

### MICHEAL HELMICK 7717443 VOLVO PENTA A 1075877 - CENTER DIESEL ENGINE

Sample No: VPA055170

**Oil Type:** VOLVO PENTA SAE 15W40

#### SAMPLE INFORMATION VPA055170 VPA025775 Sample Number Pacific Power Group - VP981534 Sample Date 23 Oct 2023 26 Oct 2021 7215 S 228th St Machine Hours 244 153 Kent, WA **Oil Hours** 0 153 US 98032 Oil Changed N/A Changed Contact: PAT RYAN NORMAL Sample Status NORMAL pryan@pacificpowergroup.com T: (253)520-5163 **OIL CONDITION** F: 12.9 Visc @ 100°C 13.4 cSt Base Number (BN) mg KOH/g 10.1 Oxidation (PA) % 55 61 CONTAMINATION Water % NEG NFG % Soot % 0.1 0.1 Nitration (PA) % 42 43 Sulfation (PA) % 52 57 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon 8 28 ppm Sodium 6 🔲 6 ppm Potassium 1 0 ppm WEAR METALS 11 Iron 19 ppm **4** 11 Copper ppm Lead ppm **||** < 1 3 Tin ■ <1 0 ppm Aluminum 9 ppm 8 Chromium 1 2 ppm 58 Molybdenum 44 ppm Nickel 1 2 ppm Titanium ppm **||** <1 < 1 Silver 0 0 ppm Manganese 1 **||** <1 ppm Vanadium ppm <1 0 **ADDITIVES** Calcium 1192 3475 ppm 874 166 Magnesium ppm Zinc ppm 1222 1122 Phosphorus ppm 1025 997 Barium 0 < 1 ppm 48 Boron ppm 347 Depot: Unique No:

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: PAT RYAN - VP99031103

Signed:

**Report Date:** 

VP99031103

Don Baldridge

23 Nov 2023

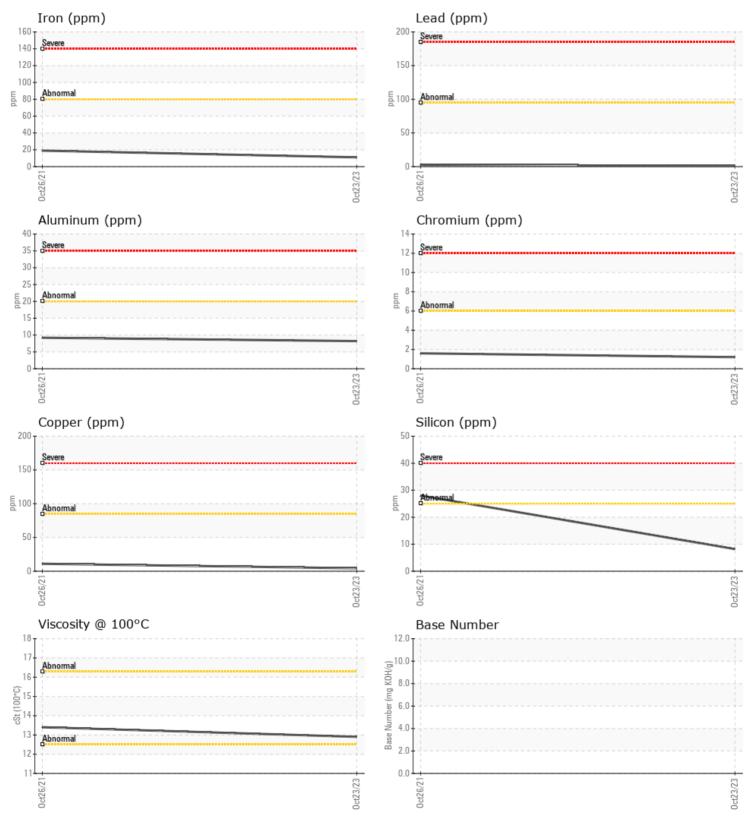
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### GRAPHS



Report Id: VP99031103 [WUSCAR] 06013821 (Generated: 11/23/2023 12:55:36) Rev: 1

Contact/Location: PAT RYAN - VP99031103