OIL ANALYSIS REPORT

JOSH HOFFMAN 7717492 VOLVO PENTA 2203127371 - CENTER DIESEL ENGINE

VPA036239 Sample No:

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION VPA036239 Sample Number 27 Oct 2023 Sample Date 7215 S 228th St Machine Hours 2432 Kent, WA **Oil Hours** 0 US 98032 Oil Changed Changed ATTENTION Sample Status T: (253)520-5163 **OIL CONDITION** F: Visc @ 100°C cSt 13.5 Base Number (BN) mg KOH/g 9.7 Diagnosis Oxidation (PA) % 71 CONTAMINATION Water % NEG % Soot % 0.2 Nitration (PA) % 68 Sulfation (PA) % 60 Glycol % 0.0 Fuel % <1.0 Silicon 15 ppm Sodium 🔺 118 ppm Potassium ppm **4** WEAR METALS Iron 12 ppm 3 Copper ppm Lead ppm ■ <1 Tin 1 ppm Aluminum ppm 3 Chromium <1 ppm 100 Molybdenum ppm Nickel ■ <1 ppm Titanium ppm **||** <1 Silver 0 ppm Manganese **||** <1 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1295 ppm **709** Magnesium ppm Zinc ppm 942 Phosphorus ppm 776 Barium **<**1 ppm Boron ppm 243 VP99031103 Depot: Unique No:

Report Id: VP99031103 [WUSCAR] 06013820 (Generated: 11/24/2023 13:38:43) Rev: 1



Pacific Power Group - VP981534 Contact: PAT RYAN pryan@pacificpowergroup.com

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. The high sodium (Na) level indicates the possible presence of salt water. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

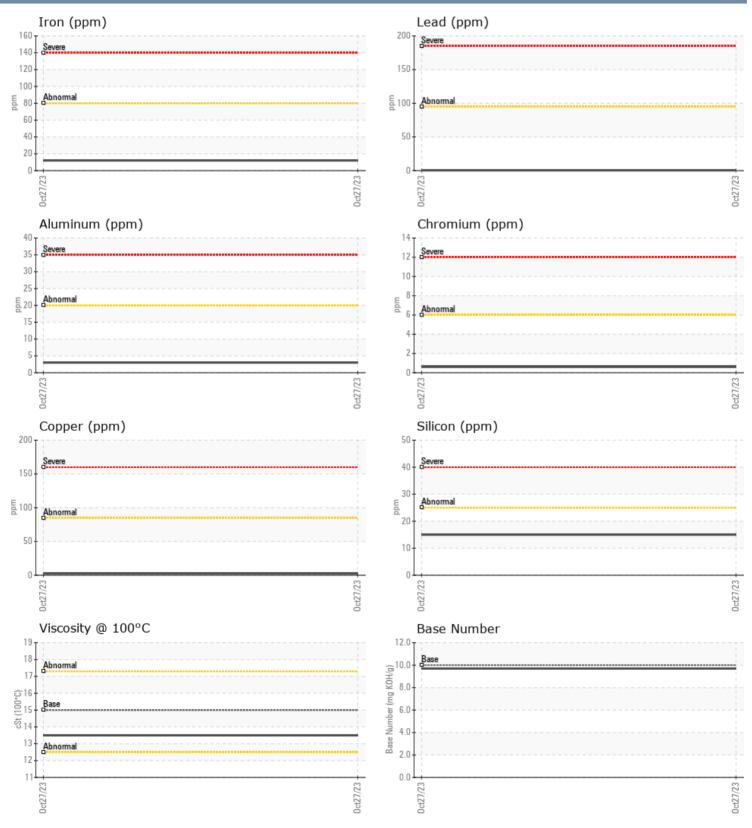
10752964 Signed: Jonathan Hester **Report Date:** 24 Nov 2023

Contact/Location: PAT RYAN - VP99031103

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: PAT RYAN - VP99031103