OIL ANALYSIS REPORT

QUINN HART 7720230 VOLVO PENTA A1141921 - CENTER DIESEL ENGINE

Sample No: VPA054008

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION VPA054008 VPA045389 Sample Number Sample Date 20 May 2024 05 Aug 2022 Machine Hours 385 178 **Oil Hours** 0 178 Oil Changed Changed Changed NORMAL Sample Status NORMAL **OIL CONDITION** F: Visc @ 100°C 12.8 cSt 12.6 Base Number (BN) mg KOH/g 9.6 10.9 Oxidation (PA) % 61 84 CONTAMINATION Water % NEG NFG % Soot % 0.3 0.3 Nitration (PA) % 51 53 Sulfation (PA) % 55 66 Glycol % NEG NFG Fuel % <1.0 <1.0 Silicon 13 29 ppm Sodium 3 4 ppm Potassium 3 3 ppm WEAR METALS 27 Iron 53 ppm 11 14 Copper ppm Lead 4 ppm 4 Tin 2 **4** ppm Aluminum 21 ppm 45 Chromium 5 3 ppm Molybdenum 42 ppm 57 Nickel 5 3 ppm Titanium ppm **||** <1 < 1 Silver 0 2 ppm Manganese 1 🔲 1 ppm Vanadium ppm 0 0 **ADDITIVES** Calcium 1169 1583 ppm Magnesium 882 480 ppm Zinc ppm 1210 1085 Phosphorus ppm 1045 929 Barium 0 0 ppm Boron ppm 12 57 Depot:

Unique No:11050451Signed:Sean FeltonReport Date:30 May 2024

Contact/Location: PAT RYAN - VP99031103

VP99031103

Pacific Power Group - VP981534 7215 S 228th St Kent, WA US 98032 Contact: PAT RYAN pryan@pacificpowergroup.com T: (253)520-5163 F:

Diagnosis

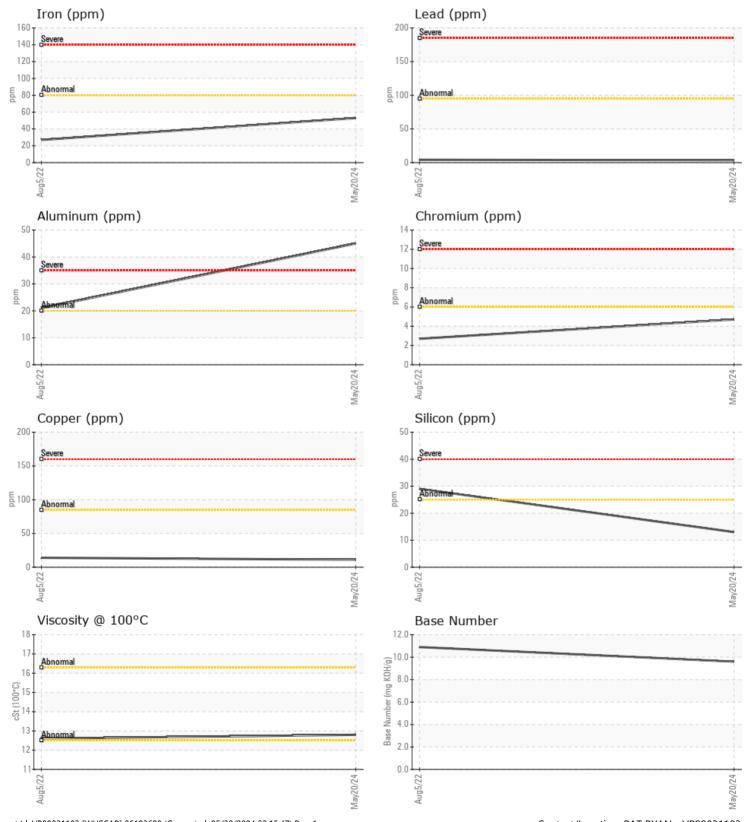
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



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GRAPHS



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