OIL ANALYSIS REPORT

CARL STEPHENS 7718623 VOLVO PENTA A 1 199877 - STARBOARD DIESEL ENGINE

VPA060733 Sample No:

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

SAMPLE INFORMATION VPA060733 Sample Number Pacific Power Group - VP981534 Sample Date 30 Jan 2024 7215 S 228th St Machine Hours 87 Kent, WA 87 **Oil Hours** Oil Changed Changed NORMAL Sample Status **OIL CONDITION** F: 12.6 Visc @ 100°C cSt Base Number (BN) mg KOH/g 10.0 Oxidation (PA) % 76 CONTAMINATION Water % NEG % Soot % 0.4 Nitration (PA) % 48 Sulfation (PA) % 61 Glycol % NEG Fuel % <1.0 Silicon 37 ppm Sodium **4** ppm Potassium 4 ppm WEAR METALS Iron 30 ppm 33 Copper ppm Lead 10 ppm Tin 5 ppm Aluminum ppm 6 Chromium 2 ppm 60 🔲 Molybdenum ppm Nickel 2 ppm Titanium ppm **||** <1 Silver ■ <1 ppm Manganese 2 ppm Vanadium ppm <1 **ADDITIVES** Calcium 2248 ppm 678 Magnesium ppm Zinc ppm 1555 Phosphorus ppm 1215 Barium 0 🔲 ppm Boron ppm 86 Depot: Unique No: Signed:

Report Date:

VP99031103

20 Feb 2024

Jonathan Hester

10885094

Report Id: VP99031103 [WUSCAR] 06092241 (Generated: 02/21/2024 01:19:28) Rev: 1

US 98032 Contact: PAT RYAN pryan@pacificpowergroup.com

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Diagnosis

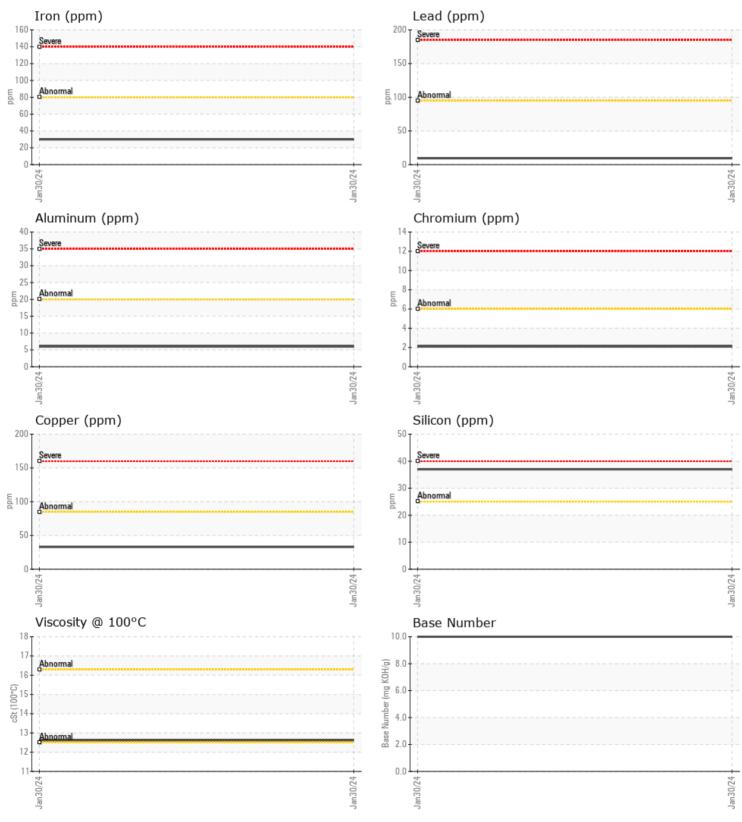
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: PAT RYAN - VP99031103