OIL ANALYSIS REPORT

ARLAND GIFFORD 505753 VOLVO PENTA A1179191 - STARBOARD DIESEL ENGINE

Sample No: VPA052349

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

SAMPLE INFORMATION VPA052349 VPA046995 Sample Number Sample Date 29 Feb 2024 27 Jan 2023 Machine Hours 186 133 **Oil Hours** 53 133 Oil Changed Changed Changed NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 13.9 12.8 Base Number (BN) mg KOH/g 7.9 11.2 Oxidation (PA) % 56 78 CONTAMINATION Water % NEG NFG % Soot % 0.2 0.8 Nitration (PA) % 54 59 Sulfation (PA) % 50 64 Glycol % NEG NFG Fuel % <1.0 <1.0 Silicon 8 25 ppm Sodium 2 4 ppm Potassium 4 3 ppm WEAR METALS 26 Iron 8 ppm **4** 23 Copper ppm Lead 5 ppm 3 Tin 2 **4** ppm Aluminum 6 ppm 3 Chromium <1 2 ppm 58 Molybdenum 41 ppm Nickel ■ <1</p> 1 ppm Titanium ppm **||** <1 0 Silver ■ <1 0 ppm Manganese 1 **||** <1 ppm Vanadium ppm <1 0 **ADDITIVES** 1673 Calcium 1998 ppm 131 464 Magnesium ppm Zinc ppm 1157 1108 1007 Phosphorus ppm 911 Barium 0 0 ppm Boron ppm 96 61

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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 acceptable for the time in service.

Report Date: 15 Mar 2024 Contact/Location: CORT CORINO - VP297371

VP297371

10926847

Don Baldridge

Depot:

Signed:

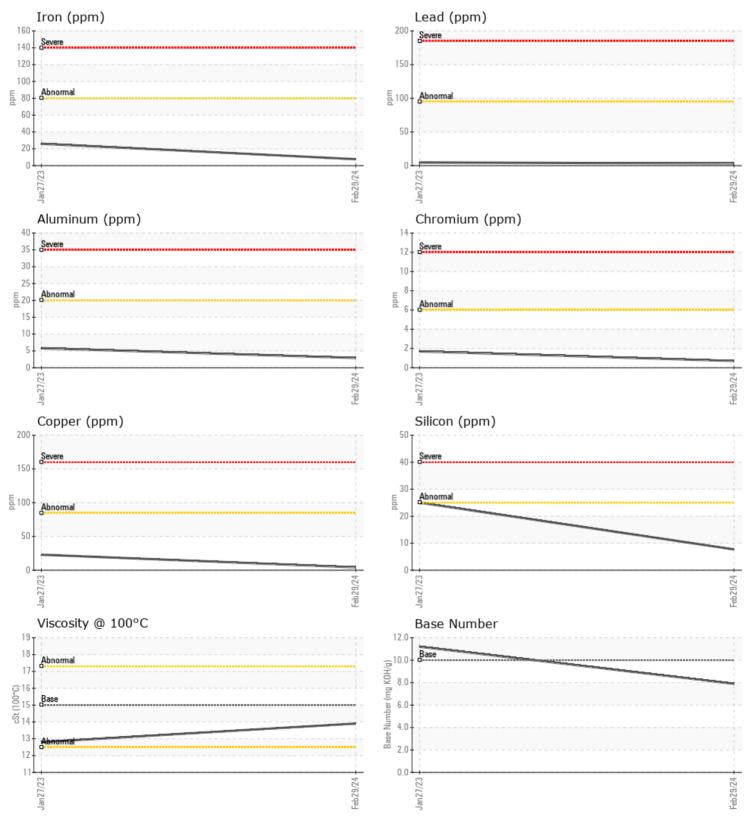
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