OIL ANALYSIS REPORT

SAM MVIR VOLVO PENTA 7008514930 - PORT DIESEL ENGINE

Sample No: VPA060736

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

SAMPLE INFORMATION VPA060736 VPA056046 Sample Number Sample Date 25 Mar 2024 27 Apr 2023 Machine Hours 274 158 **Oil Hours** 274 158 Oil Changed Not Changd Changed NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 13.3 13.2 Base Number (BN) mg KOH/g 10.1 8.3 Oxidation (PA) 61 63 % CONTAMINATION Water % NEG NFG % Soot % 0.4 0.3 Nitration (PA) % 54 53 Sulfation (PA) % 55 58 Glycol % NEG NFG Fuel % <1.0 <1.0 Silicon 15 29 ppm Sodium 3 2 ppm Potassium 2 ppm 1 WEAR METALS Iron 29 29 ppm 99 61 Copper ppm Lead ppm 0 🔲 0 Tin 0 ppm ■ <1 Aluminum 8 ppm 6 Chromium 2 2 ppm Molybdenum 108 ppm 67 Nickel 2 2 ppm Titanium ppm **||** <1 < 1 1 Silver ■ <1 ppm Manganese 1 <1 ppm Vanadium ppm <1 <1 **ADDITIVES** 1464 Calcium 1154 ppm 875 801 Magnesium ppm Zinc ppm 1078 977 Phosphorus ppm 879 816 Barium 0 0 ppm Boron ppm 35 271

VP152741 Unique No: 10963031

Report Date:

Contact/Location: NADINE URCIUOLI - VP152741

Depot:

Signed:

Don Baldridge 06 Apr 2024

Page 1 of 2

Helmuts Marine Service

619 Canal Street SAN RAFAEL. CA US 94901-3545 Contact: NADINE URCIUOLI SERVICE@HEI MUTSMARINE COM T: x: F: x:

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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.



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GRAPHS

