OIL ANALYSIS REPORT

NADINE URCIUOLI PATRICK HENDRICKSON VOLVO PENTA 5100693410 - DIESEL ENGINE

Sample No: VPA061546

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

SAMPLE INFORMATION VPA061546 Sample Number **Helmuts Marine Service** Sample Date 29 May 2024 619 Canal Street Machine Hours 95 SAN RAFAEL. CA 95 **Oil Hours** US 94901-3545 Oil Changed Not Changd Contact: NADINE URCIUOLI NORMAL Sample Status SERVICE@HEI MUTSMARINE COM T: x: **OIL CONDITION** F: x: Visc @ 100°C cSt 13.85 Oxidation (PA) % 69 Diagnosis CONTAMINATION No corrective action is recommended at this time. Resample at the next Water % NEG service interval to monitor.All % Soot % 0.1 component wear rates are normal. Nitration (PA) % 84 There is no indication of any contamination in the oil. The Sulfation (PA) % 55 condition of the oil is acceptable for Glycol % NEG the time in service. % Fuel <1.0 Silicon ppm 6 Sodium ppm 2 Potassium 4 ppm WEAR METALS Iron ppm 7 3 Copper ppm **||** <1 Lead ppm Tin 1 ppm Aluminum 2 ppm Chromium **||** < 1 ppm Molybdenum 20 ppm Nickel ■ <1 ppm Titanium < 1 </p> ppm Silver ppm 0 Manganese **||** <1 ppm Vanadium 0 ppm ADDITIVES Calcium 1470 ppm Magnesium 704 ppm 907 Zinc ppm Phosphorus ppm 832 Barium ppm **<**1 Boron ppm 141 Depot:

VP152741 Unique No: 11059345 Signed: Doug Bogart **Report Date:** 31 May 2024

Contact/Location: NADINE URCIUOLI - VP152741

VOLVO PENTA

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GRAPHS

