OIL ANALYSIS REPORT

CHRISLEIER 502453 VOLVO PENTA 70112005160 - STARBOARD DIESEL ENGINE

Sample No: VPA059038

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

SAMPLE INFORMATION VPA059038 Sample Number Endor Marine LLC - Coastal Marine - 152124 Sample Date 10 Oct 2023 4300 11th Ave. NW Machine Hours 216 SEATTLE, WA **Oil Hours** 100 US 98107 Oil Changed Not Changd Contact: WILLOW YANARELLA ATTENTION Sample Status service@coastalmarineengine.com T: (206)784-3703 **OIL CONDITION** F: (206)784-8823 Visc @ 100°C cSt **12.4** Base Number (BN) mg KOH/g 9.3 Diagnosis Oxidation (PA) % 55 Resample at the next service interval CONTAMINATION to monitor.All component wear rates are normal. Fuel content negligible. Soot % % 0.1 There is no indication of any % Nitration (PA) 43 contamination in the oil. The oil viscosity is lower than normal. The Sulfation (PA) % 51 BN result indicates that there is % Glycol NEG suitable alkalinity remaining in the oil. Fuel % 1.2 Confirm oil type. Silicon ppm 13 Sodium 1 ppm Potassium ppm **4** WEAR METALS Iron ppm 5 16 Copper ppm **||** <1 Lead ppm Tin ■ <1 ppm Aluminum 1 ppm Chromium **||** < 1 ppm Molybdenum ppm 62 Nickel ■ <1 ppm Titanium ■ <1 ppm Silver ppm 0 Manganese ■ <1 ppm Vanadium <1 ppm ADDITIVES Calcium 1062 ppm Magnesium 974 ppm Zinc ppm 1234 Phosphorus ppm 1030 Barium ppm 12 Boron ppm 11 Depot:

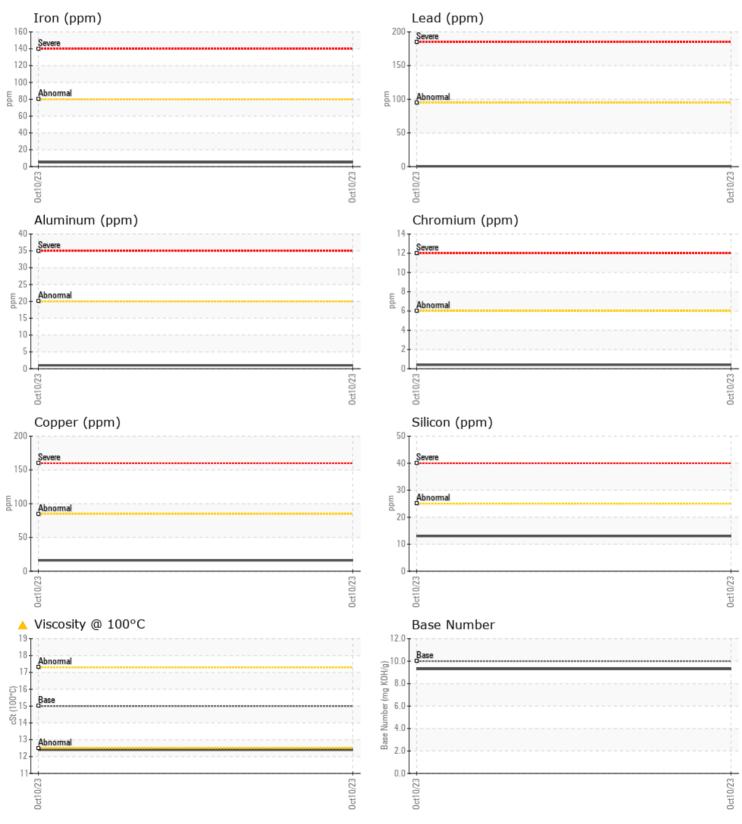
VP794951 Unique No: 10695908 Signed: Angela Borella **Report Date:** 17 Oct 2023



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GRAPHS



Report Id: VP794951 [WUSCAR] 05978613 (Generated: 10/28/2023 18:18:26) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951