OIL ANALYSIS REPORT

CHRIS LEIER 502453 VOLVO PENTA 70112005056 - PORT DIESEL ENGINE

Sample No: VPA059040

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

SAMPLE INFORMATION VPA059040 Sample Number 10 Oct 2023 Sample Date Machine Hours 215 100 **Oil Hours** Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** 12.4 Visc @ 100°C cSt Base Number (BN) mg KOH/g 9.3 Oxidation (PA) % 55 CONTAMINATION Soot % % 0.1 % Nitration (PA) 43 Sulfation (PA) % 51 % Glycol NEG Fuel % 1.7 Silicon ppm 11 Sodium 1 ppm Potassium ppm 3 WEAR METALS Iron ppm 5 24 Copper ppm **||** <1 Lead ppm Tin ■ <1 ppm Aluminum 1 ppm Chromium **||** < 1 ppm Molybdenum 60 ppm Nickel ■ <1 ppm Titanium ■<1 ppm Silver ppm 0 Manganese ■ <1 ppm Vanadium <1 ppm **ADDITIVES** Calcium 1027 ppm Magnesium 956 ppm Zinc ppm 1210 Phosphorus ppm 1011 Barium ppm 12 Boron ppm 5

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

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.

 Depot:
 VP794951

 Unique No:
 10695907

 Signed:
 Angela Borella

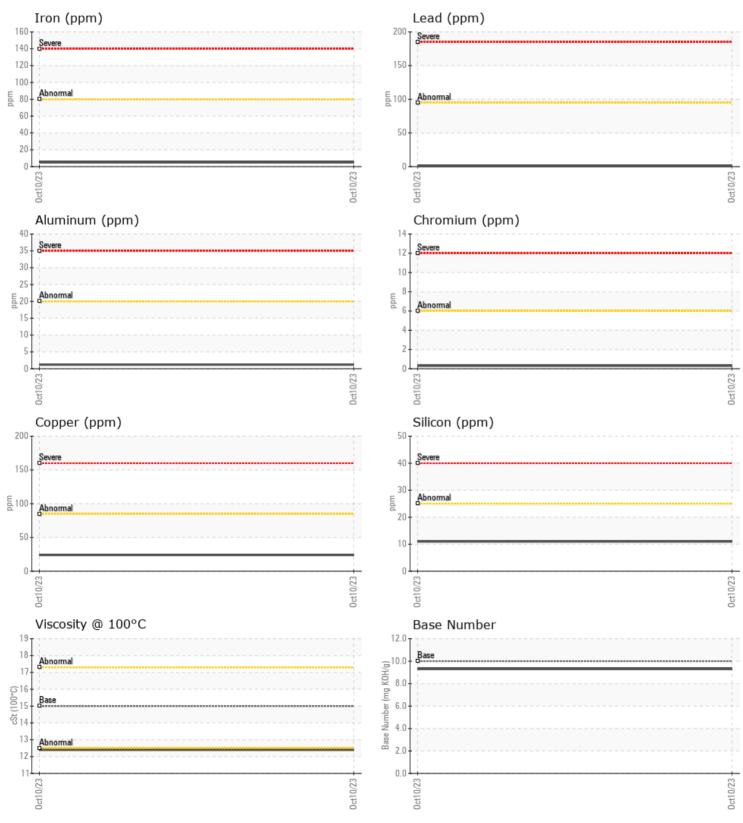
 Report Date:
 17 Oct 2023



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 05978612 (Generated: 10/28/2023 18:18:18) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951