OIL ANALYSIS REPORT

JOHN STORCK 502963 VOLVO PENTA A271201 - STARBOARD DIESEL ENGINE

Sample No: VPA059105

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

SAMPLE INFORMATION VPA059105 Sample Number Sample Date 04 Apr 2024 Machine Hours 497 **Oil Hours** 0 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.5 Base Number (BN) mg KOH/g 10.2 Oxidation (PA) % 55 CONTAMINATION % NEG Water % Soot % 0.1 Nitration (PA) % 41 % 50 Sulfation (PA) Glycol % NEG % Fuel <1.0 Silicon 3 ppm Sodium **||** <1 ppm Potassium **||** <1 ppm WEAR METALS Iron 3 ppm 1 Copper ppm Lead ■ <1 ppm Tin 0 ppm Aluminum **||** <1 ppm Chromium ppm 0 Molybdenum 50 ppm Nickel ■ <1 ppm Titanium ppm 0 🔲 0 Silver ppm Manganese 0 🔲 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1042 ppm Magnesium 945 ppm Zinc ppm 1125 1032 Phosphorus ppm Barium 0 ppm Boron ppm 0 Depot: Unique No: Signed:

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.

Contact/Location: WILLOW YANARELLA - VP794951

Report Date:

VP794951

10968707

Angela Borella

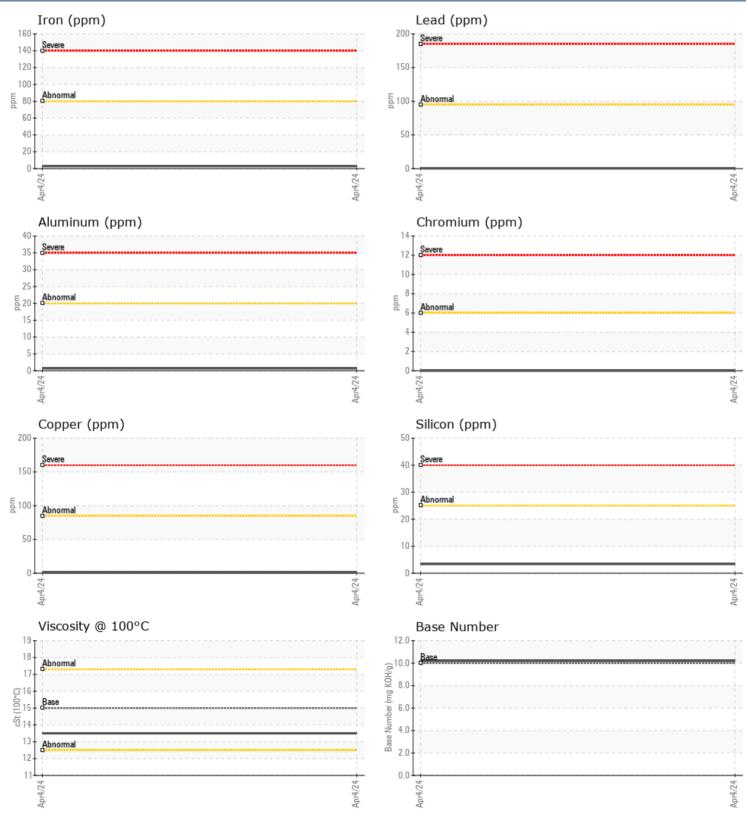
12 Apr 2024



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 06143899 (Generated: 04/16/2024 10:02:16) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951