## **OIL ANALYSIS REPORT**

### S3 MARINE DANIEL/502505 VOLVO PENTA A977272 - STARBOARD DIESEL ENGINE

Sample No: VPA059035

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

#### SAMPLE INFORMATION Sample Number VPA059035 Endor Marine LLC - Coastal Marine - 152124 22 Nov 2023 Sample Date 4300 11th Ave. NW Machine Hours 208 SEATTLE, WA **Oil Hours** 0 US 98107 Oil Changed Changed Contact: WILLOW YANARELLA NORMAL Sample Status service@coastalmarineengine.com T: (206)784-3703 **OIL CONDITION** F: (206)784-8823 Visc @ 100°C cSt 13.9 Base Number (BN) mg KOH/g 8.1 Diagnosis Oxidation (PA) % 49 Resample at the next service interval CONTAMINATION to monitor.All component wear rates are normal. There is no indication of % NEG Water any contamination in the oil. The BN % Soot % 0.1 result indicates that there is suitable Nitration (PA) % 59 alkalinity remaining in the oil. The condition of the oil is acceptable for % 48 Sulfation (PA) the time in service. Glycol % NEG Fuel % <1.0 Silicon 4 ppm Sodium 2 ppm Potassium 0 ppm WEAR METALS 12 Iron ppm 5 Copper ppm Lead ■ <1 ppm Tin 0 ppm Aluminum ppm 2 Chromium ppm 0 Molybdenum 0 ppm Nickel ■ <1</p> ppm Titanium ppm 0 🔲 Silver ppm 0 Manganese <1 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1326 ppm Magnesium 677 ppm Zinc ppm 780 Phosphorus ppm 716 Barium 0 ppm Boron ppm 95 Depot: Unique No:

10765800 Signed: Don Baldridge **Report Date:** 03 Dec 2023

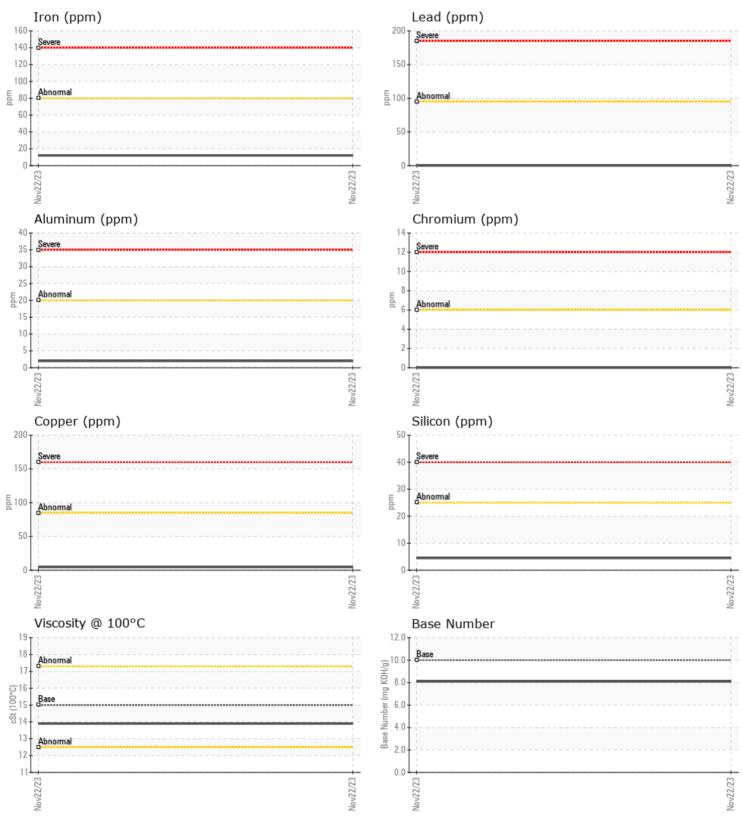
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VOLVO PENTA

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### GRAPHS



Report Id: VP794951 [WUSCAR] 06021300 (Generated: 12/04/2023 14:10:43) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951