OIL ANALYSIS REPORT

43470 VOLVO PENTA A 1 158655 - STARBOARD DIESEL ENGINE

Sample No: VPA055784

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

SAMPLE INFORMATION VPA055784 Sample Number Sample Date 22 Aug 2023 Machine Hours 70 0 **Oil Hours** Oil Changed Changed NORMAL Sample Status **OIL CONDITION** T: F: Visc @ 100°C cSt 13.3 Base Number (BN) mg KOH/g 9.0 Oxidation (PA) % 60 CONTAMINATION Soot % % 0.4 % Nitration (PA) 47 Sulfation (PA) % 60 % Glycol NEG Fuel % <1.0 Silicon ppm 20 Sodium 6 🔲 ppm Potassium 7 ppm WEAR METALS 18 Iron ppm 15 Copper ppm Lead ppm 4 Tin 3 ppm Aluminum ppm **7** Chromium 1 ppm Molybdenum 106 ppm Nickel ■ <1 ppm Titanium **||** <1 ppm Silver ppm **||** <1 Manganese 2 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1591 ppm Magnesium 638 ppm Zinc ppm 937 Phosphorus ppm 764 Barium ppm 0 🔲 Boron ppm 321 Depot: Unique No:

COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD CHARLESTON, SC US 29403 Contact: STEVE VASAS steve@ccyachtsales.com

Diagnosis

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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.

Signed: Sean Felton **Report Date:** 29 Aug 2023 Contact/Location: STEVE VASAS - VP568144

VP568144

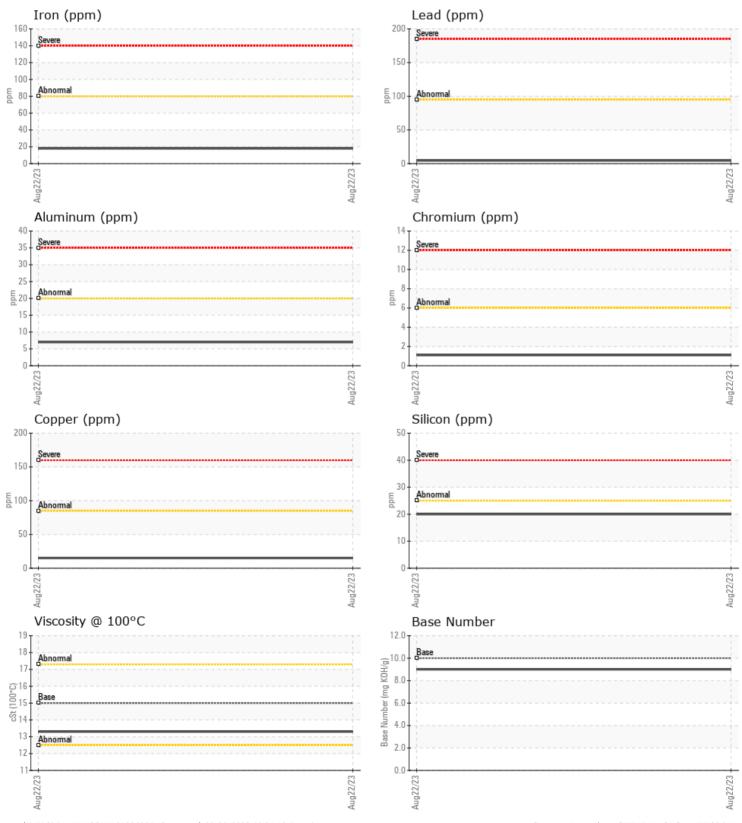
10622158



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP568144 [WUSCAR] 05936887 (Generated: 08/29/2023 19:24:46) Rev: 1

Contact/Location: STEVE VASAS - VP568144