## **OIL ANALYSIS REPORT**

#### GEORGE MEARS 902731 VOLVO PENTA A 1 105648 - STARBOARD DIESEL ENGINE

VPA036608 Sample No:

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

#### SAMPLE INFORMATION VPA036608 Sample Number Sample Date 02 Oct 2023 Machine Hours 498 **Oil Hours** 36 US 91911 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** T: F: 13.7 Visc @ 100°C cSt Base Number (BN) mg KOH/g 10.8 Oxidation (PA) % 50 CONTAMINATION Soot % % 0.3 % Nitration (PA) 53 Sulfation (PA) % 50 % Glycol NEG Fuel % <1.0 Silicon ppm 5 Sodium 1 ppm Potassium 0 🔲 ppm WEAR METALS 13 Iron ppm 3 Copper ppm Lead ppm 0 Tin ■ <1 ppm Aluminum ppm 2 Chromium **||** < 1 ppm Molybdenum 56 ppm Nickel ■ <1 ppm Titanium 0 🔲 ppm Silver ppm 0 🔲 Manganese **||** <1 ppm 0 Vanadium ppm **ADDITIVES** Calcium 1077 ppm Magnesium 971 ppm Zinc ppm 1268 Phosphorus ppm 1037 Barium ppm 0 Boron ppm 5 Depot:

Cogswell Marine & Motorsports, Inc 865 Stella Street CHULA VISTA, CA Contact: Mitchell Cogswell Cogswellmarinemotorsports@gmail.com

## 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.

Unique No: 10682640 Signed: Don Baldridge **Report Date:** 09 Oct 2023

Contact/Location: Mitchell Cogswell - VP152133

VP152133

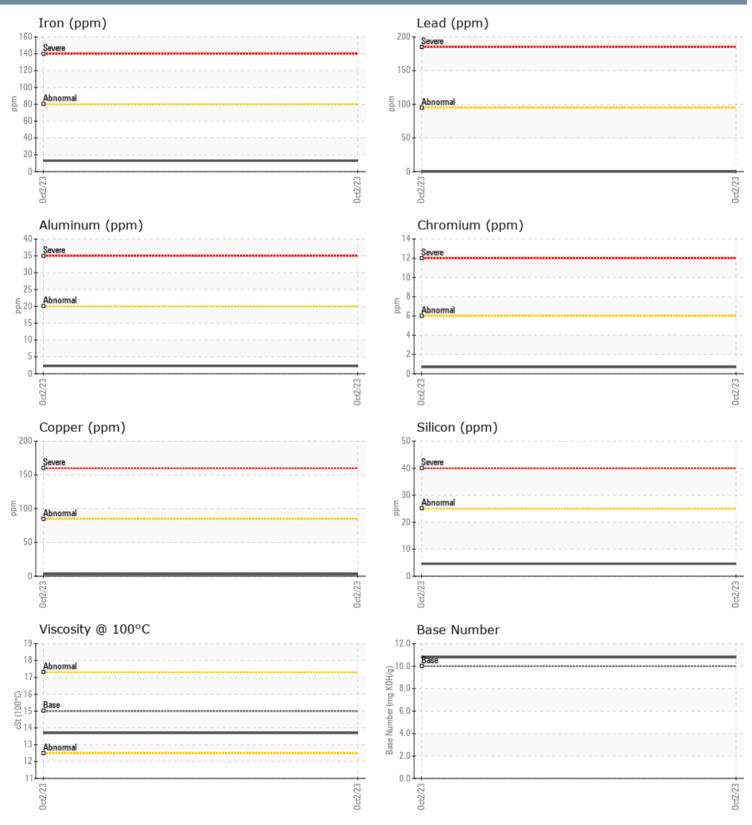


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### GRAPHS



Report Id: VP152133 [WUSCAR] 05970690 (Generated: 10/10/2023 14:04:36) Rev: 1

Contact/Location: Mitchell Cogswell - VP152133