## **OIL ANALYSIS REPORT**

### CHANGE HAPPENS VOLVO PENTA 7011384982 - STARBOARD DIESEL ENGINE

Sample No: VPA046449

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

#### SAMPLE INFORMATION VPA046449 Sample Number 27 Jun 2023 Sample Date Machine Hours 538 **Oil Hours** 0 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** F: Visc @ 100°C cSt 12.8 Base Number (BN) mg KOH/g 9.1 Oxidation (PA) % 63 CONTAMINATION Soot % % 0.4 % Nitration (PA) 58 Sulfation (PA) % 55 % Glycol NEG Fuel % <1.0 Silicon ppm 5 Sodium ■<1 ppm Potassium ppm 1 WEAR METALS Iron ppm 7 24 Copper ppm **||** <1 Lead ppm Tin ■ <1 ppm Aluminum 0 ppm Chromium **||** < 1 ppm Molybdenum 61 ppm Nickel ■ <1 ppm Titanium 0 🔲 ppm Silver ppm 0 🔲 Manganese **||** <1 ppm Vanadium 0 ppm ADDITIVES Calcium 1060 ppm Magnesium 927 ppm 1206 Zinc ppm Phosphorus ppm 1002 Barium ppm 0 Boron ppm 0

VOLVO PENTA

FULL KEEL MARINE SERVICES 314 LEGION AVE ANNAPOLIS, MD US 21401 Contact: Service Manager FULLKEELMARINESERIVES@GMAIL.COM T: (410)507-3542

#### 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 suitable for further service.

 Depot:
 VP1298996

 Unique No:
 10538754

 Signed:
 Don Baldridge

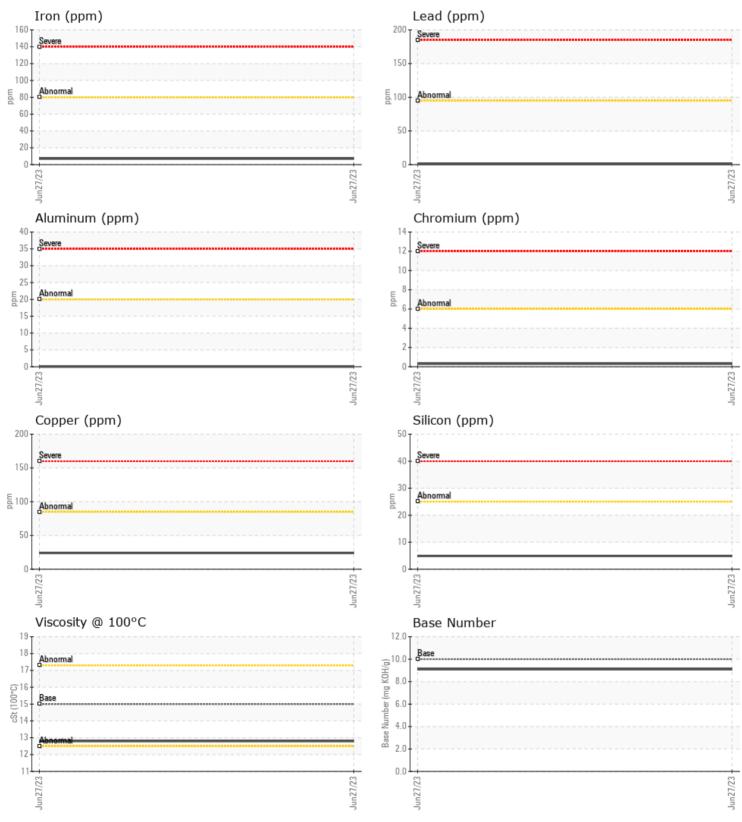
 Report Date:
 04 Jul 2023

Contact/Location: Service Manager - VP1298996

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#### GRAPHS



Report Id: VP1298996 [WUSCAR] 05888271 (Generated: 07/04/2023 16:43:19) Rev: 1

Contact/Location: Service Manager - VP1298996