## **OIL ANALYSIS REPORT**

### **CHARLES SOUTHALL 6828** VOLVO PENTA A 1077300 - STARBOARD DIESEL ENGINE

Sample No: VPA051852

**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40

#### SAMPLE INFORMATION VPA051852 Sample Number Western Branch Diesel, Inc. - VP527273 16 Feb 2024 Sample Date 3504 SHIPWRIGHT ST Machine Hours 998 PORTSMOUTH, VA **Oil Hours** 0 US 23703 Oil Changed Changed Contact: David Shook NORMAL Sample Status dshook@wbdiesel.com T: **OIL CONDITION** F: Visc @ 100°C cSt 14.5 Base Number (BN) mg KOH/g 9.6 Oxidation (PA) % 59 CONTAMINATION NEG Water % % Soot % 0 Nitration (PA) % 45 Sulfation (PA) % 52 Glycol % NEG Fuel % <1.0 Silicon 6 ppm Sodium **4** ppm Potassium 2 ppm WEAR METALS Iron 1 ppm **||** <1 Copper ppm Lead 0 🔲 ppm Tin 0 ppm Aluminum ppm 2 Chromium <1 ppm 42 Molybdenum ppm Nickel 0 🔲 ppm Titanium ppm **||** <1 Silver 0 ppm Manganese 0 🔲 ppm Vanadium ppm 0 **ADDITIVES** Calcium 1256 ppm Magnesium 475 ppm Zinc ppm 1060 Phosphorus ppm 936 Barium 10 ppm Boron ppm 42 Depot:

VP155396 Unique No: 10885583 Signed: Don Baldridge **Report Date:** 20 Feb 2024

Contact/Location: David Shook - VP155396

Diagnosis Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of

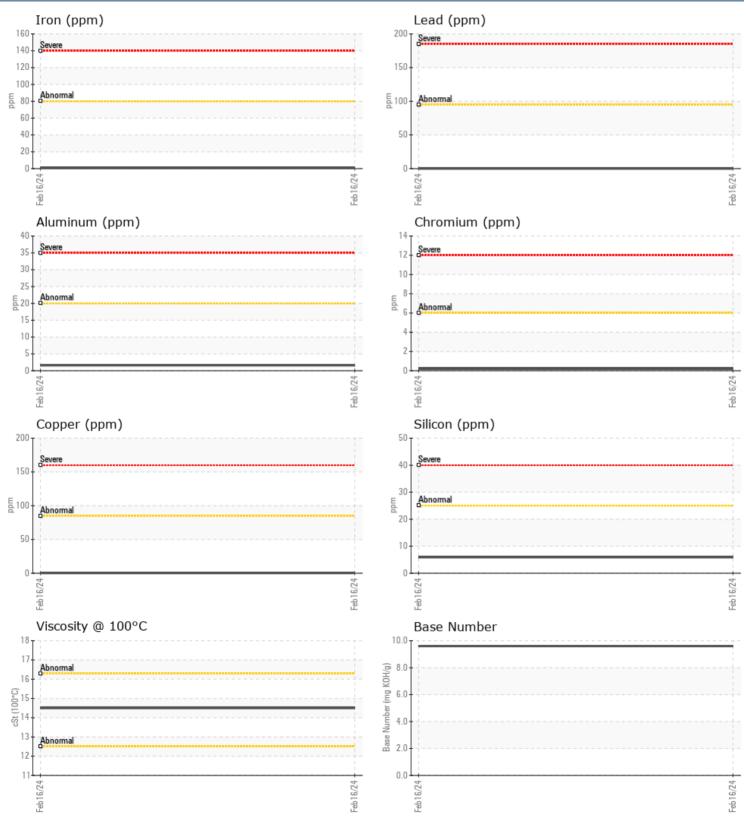
any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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### GRAPHS



Report Id: VP155396 [WUSCAR] 06092730 (Generated: 02/20/2024 20:51:20) Rev: 1

Contact/Location: David Shook - VP155396