## **OIL ANALYSIS REPORT**

### NADINE URCIUOLI JAD FAKHRY VOLVO PENTA A 1 1 26950 - PORT DIESEL ENGINE

Sample No: VPA049502

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

#### SAMPLE INFORMATION VPA049502 Sample Number **Helmuts Marine Service** Sample Date 30 Jan 2024 619 Canal Street Machine Hours 93 SAN RAFAEL. CA 93 **Oil Hours** US 94901-3545 Oil Changed Changed NORMAL Sample Status T: x: **OIL CONDITION** F: x: 13.7 Visc @ 100°C cSt Base Number (BN) mg KOH/g 9.8 Oxidation (PA) % 53 CONTAMINATION % NEG Water % Soot % 0.1 Nitration (PA) % 38 % Sulfation (PA) 49 Glycol % NEG Fuel % <1.0 Silicon 6 ppm Sodium 0 🔲 ppm Potassium 2 ppm WEAR METALS Iron 8 ppm 3 Copper ppm Lead ppm 2 Tin ■ <1 ppm Aluminum ppm 4 Chromium <1 ppm 59 Molybdenum ppm Nickel ■ <1 ppm Titanium ppm **||** <1 Silver ppm 0 Manganese ppm **||** <1 Vanadium ppm <1 **ADDITIVES** Calcium 1029 ppm Magnesium 817 ppm Zinc ppm 1056 Phosphorus ppm 948 Barium **<**1 ppm Boron ppm 39 Depot:

Unique No: 10870758 Signed: Don Baldridge **Report Date:** 09 Feb 2024

Contact: NADINE URCIUOLI SERVICE@HEI MUTSMARINE 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 suitable for further service.





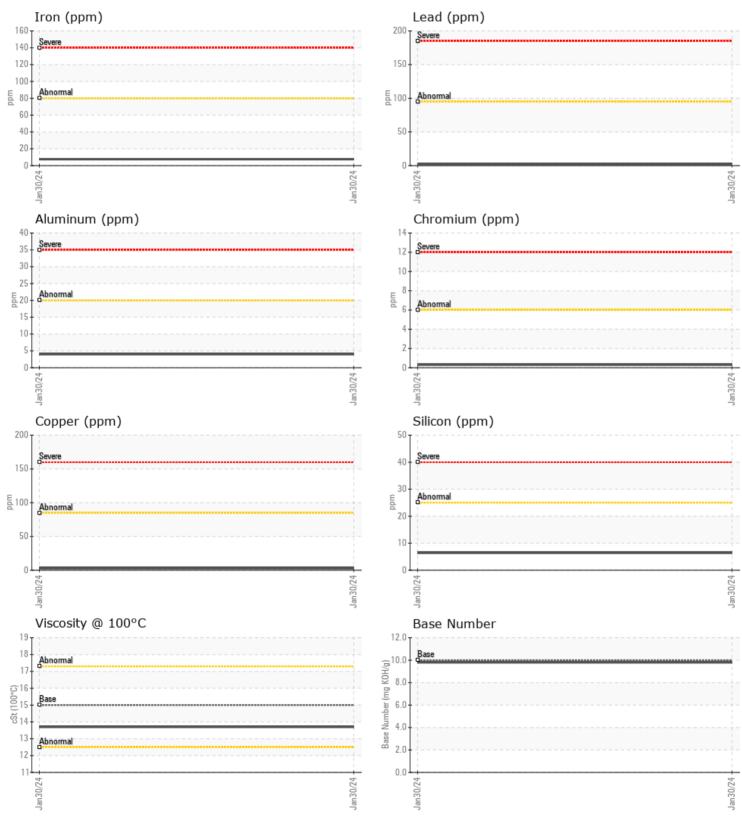
Contact/Location: NADINE URCIUOLI - VP152741

VP152741

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### GRAPHS



Report Id: VP152741 [WUSCAR] 06083313 (Generated: 02/13/2024 14:11:34) Rev: 1

Contact/Location: NADINE URCIUOLI - VP152741