OIL ANALYSIS REPORT

NADINE URCIUOLI RICKY JOHNSON VOLVO PENTA 2300076852 - CENTER DIESEL ENGINE

VPA058332 Sample No:

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

SAMPLE INFORMATION VPA058332 Sample Number Sample Date 14 May 2024 Machine Hours 1351 **Oil Hours** 1351 Oil Changed Changed NORMAL Sample Status T: x: **OIL CONDITION** F: x: Visc @ 100°C cSt 14.0 Base Number (BN) mg KOH/g 8.0 Oxidation (PA) % 54 CONTAMINATION % NEG Water % Soot % 0.1 Nitration (PA) % 37 % Sulfation (PA) 54 Glycol % NEG Fuel % <1.0 Silicon 5 ppm Sodium 2 ppm Potassium 1 ppm WEAR METALS Iron 8 ppm **||** <1 Copper ppm Lead ppm 1 🗌 Tin ■ <1 ppm Aluminum 5 ppm Chromium ppm 0 Molybdenum 78 ppm Nickel ■ <1</p> ppm Titanium ppm 0 🔲 Silver 0 ppm Manganese **||** <1 ppm Vanadium 0 ppm **ADDITIVES** Calcium 1343 ppm Magnesium 358 ppm Zinc ppm 1246 1031 Phosphorus ppm Barium 0 ppm Boron ppm 533 Depot: Unique No: Signed:

VP152741

11043987

Report Date:

Sean Felton

23 May 2024

Helmuts Marine Service 619 Canal Street SAN RAFAEL. CA US 94901-3545 Contact: NADINE URCIUOLI SERVICE@HEI MUTSMARINE COM

Diagnosis

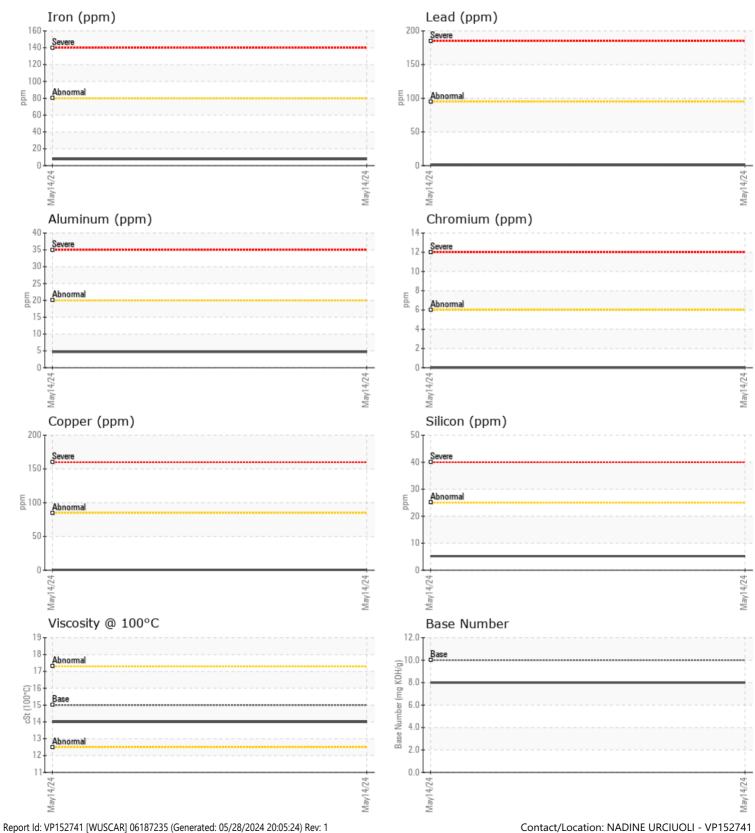
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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GRAPHS



Contact/Location: NADINE URCIUOLI - VP152741