OIL ANALYSIS REPORT

PITT STOP 3440 VOLVO PENTA 7011440114 - STARBOARD DIESEL ENGINE

VPA049512 Sample No:

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

SAMPLE INFORMATION VPA049512 Sample Number Sample Date 21 Dec 2023 Machine Hours 581 **Oil Hours** 0 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** F: Visc @ 100°C cSt 12.4 Base Number (BN) mg KOH/g 9.0 Oxidation (PA) % 59 CONTAMINATION Water % NEG % Soot % 0.6 Nitration (PA) % 65 Sulfation (PA) % 57 Glycol % NEG Fuel % 0.8 Silicon 7 ppm Sodium 2 ppm Potassium 0 ppm WEAR METALS Iron 15 ppm 74 Copper ppm Lead 2 ppm Tin 1 ppm Aluminum ppm **||** <1 Chromium <1 ppm Molybdenum ppm 62 Nickel 2 ppm Titanium ppm 0 🔲 Silver 0 ppm Manganese **||** < 1 ppm Vanadium ppm 0 **ADDITIVES** Calcium 1176 ppm 892 Magnesium ppm Zinc ppm 1213 Phosphorus ppm 1070 Barium 0 🔲 ppm Boron ppm ■ <1 Depot: Unique No: Signed:

Contact/Location: ROBERT ANTONA - VP531377

Report Date:

VP531377

10819234

Angela Borella

10 Jan 2024

VOLVO PENTA

GRAND BANKS 450 SW SALEM RD STUART, FL US 34994 Contact: ROBERT ANTONA roberta@gbmarinegroup.com T: (609)384-5290

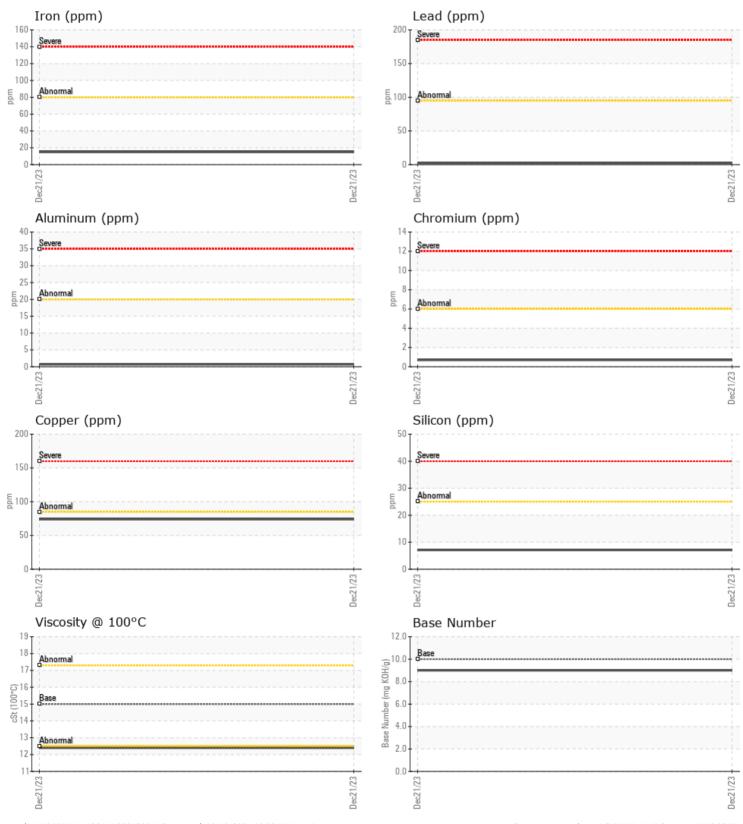
Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: ROBERT ANTONA - VP531377