OIL ANALYSIS REPORT

ANDREW VOLVO PENTA 383229 - STARBOARD DIESEL ENGINE

Sample No:

No: VPA050698

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

SAMPLE INFORMATION VPA050698 Sample Number Sample Date 04 Jun 2023 Machine Hours 195 **Oil Hours** 195 Oil Changed Changed ATTENTION Sample Status **OIL CONDITION** F: Visc @ 100°C **11.3** cSt Base Number (BN) mg KOH/g 8.7 Oxidation (PA) % 49 CONTAMINATION Soot % % 0.5 % Nitration (PA) 55 Sulfation (PA) % 49 % Glycol NEG Fuel % 1.5 Silicon ppm 36 Sodium 3 ppm Potassium **4** ppm WEAR METALS 40 Iron ppm 69 Copper ppm Lead ppm 4 Tin 3 ppm Aluminum ppm 4 Chromium 2 ppm Molybdenum 39 ppm Nickel 2 ppm Titanium **||** <1 ppm Silver ■ <1 ppm Manganese 3 ppm Vanadium 0 ppm **ADDITIVES** Calcium 1101 ppm Magnesium 1021 ppm 1255 🔲 Zinc ppm Phosphorus ppm 1062 Barium ppm 5 Boron ■ <1 ppm



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.Metal levels are typical for a components first oil change. 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.

 Depot:
 VP531377

 Unique No:
 10533347

 Signed:
 Don Baldridge

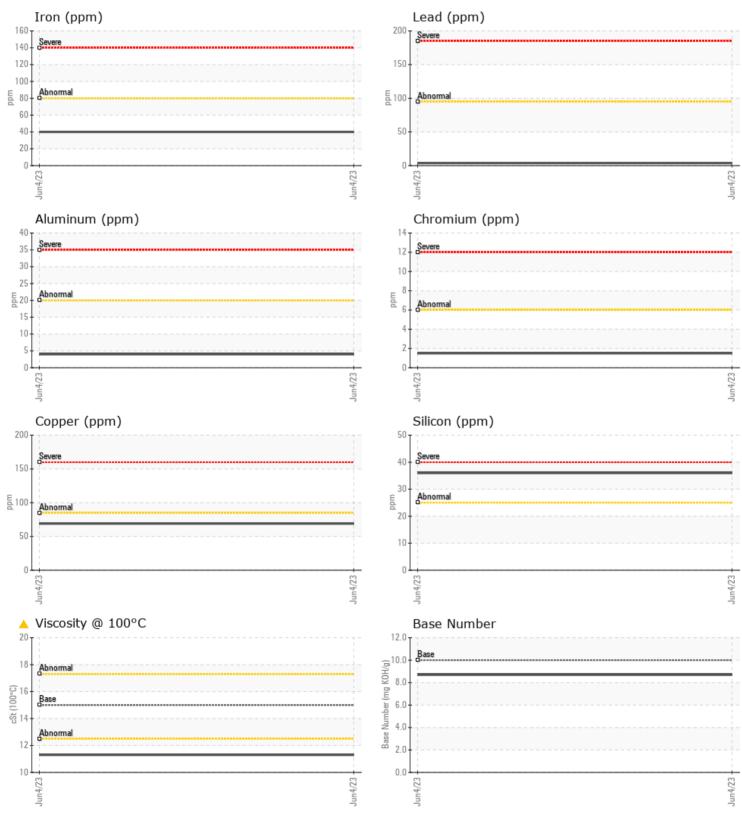
 Report Date:
 28 Jun 2023

Contact/Location: ROBERT ANTONA - VP531377

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GRAPHS



Report Id: VP531377 [WUSCAR] 05882864 (Generated: 07/14/2023 21:28:43) Rev: 1

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