OIL ANALYSIS REPORT

CLIFFEHOOD M50409 - CENTER DIESEL ENGINE

Sample No: VPA059313

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION VPA059313 Sample Number Sample Date 01 Dec 2023 Machine Hours 992 **Oil Hours** 0 Oil Changed N/A ATTENTION Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.5 Base Number (BN) mg KOH/g 8.0 Oxidation (PA) % 72 CONTAMINATION Water % NEG % Soot % 0.2 Nitration (PA) % 63 Sulfation (PA) % 59 Glycol % NEG Fuel % <1.0 Silicon 2 ppm Sodium **||** <1 ppm Potassium 8 🔲 ppm WEAR METALS Iron 6 🔲 ppm **112** Copper ppm Lead ppm 0 Tin 0 ppm Aluminum 1 ppm Chromium <1 ppm Molybdenum ppm **<**1 Nickel 0 🔲 ppm Titanium ppm 0 Silver 0 ppm Manganese 0 🔲 ppm Vanadium ppm 0 **ADDITIVES** Calcium 2094 ppm 21 Magnesium ppm Zinc ppm 1118 Phosphorus ppm 966 Barium 3 ppm Boron ppm 179

VOLVO PENTA

The Talaria Company

202 Banks St., One Little Harbor Landing OXFORD, MD US 21654 Contact: TRACY PELLERIN tpellerin@hinckleyyachts.com T: (410)770-4899 F: x:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other 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.

 Depot:
 VP592286

 Unique No:
 10778837

 Signed:
 Don Baldridge

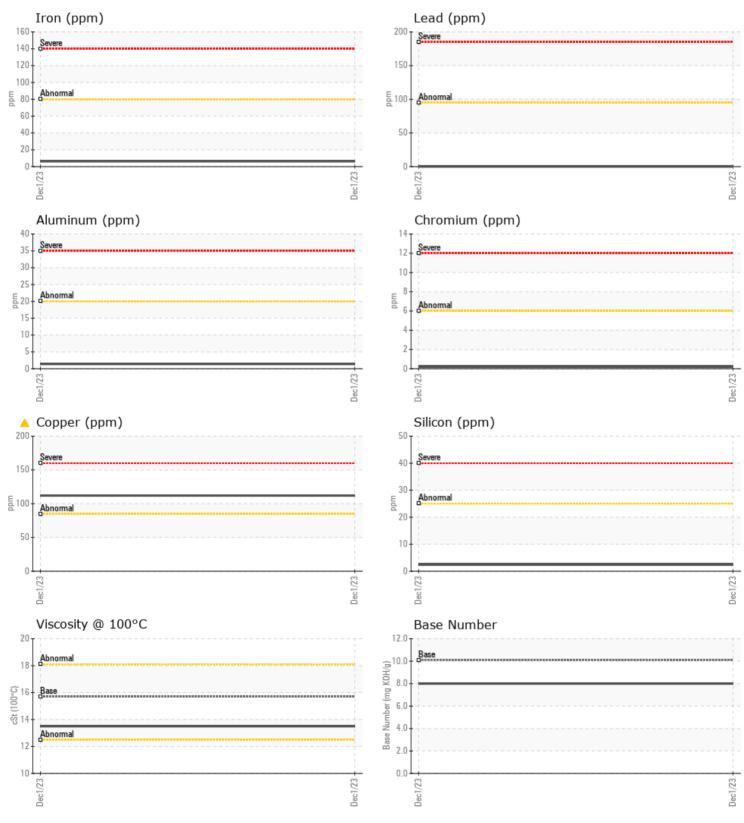
 Report Date:
 11 Dec 2023

Contact/Location: TRACY PELLERIN - VP592286

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GRAPHS



Report Id: VP592286 [WUSCAR] 06029046 (Generated: 12/11/2023 13:45:52) Rev: 1

Contact/Location: TRACY PELLERIN - VP592286