## **OIL ANALYSIS REPORT**

#### FRED LOPATIN LOPATIN VOLVO PENTA 7008453402 - PORT DIESEL ENGINE

Sample No: VPA042924

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

#### SAMPLE INFORMATION VPA042924 Sample Number Sample Date 21 Mar 2023 Machine Hours 505 287 **Oil Hours** Oil Changed Changed ATTENTION Sample Status **OIL CONDITION** F: 14.8 Visc @ 100°C cSt Base Number (BN) mg KOH/g 9.2 Oxidation (PA) % 64 CONTAMINATION Water % NEG % Soot % 1.9 Nitration (PA) % 77 Sulfation (PA) % 65 Glycol % NEG Fuel % <1.0 Silicon 26 ppm Sodium 2 ppm Potassium 1 ppm WEAR METALS Iron 42 ppm 108 Copper ppm Lead 0 🔲 ppm Tin ppm ■ <1 Aluminum ppm 3 Chromium 4 ppm Molybdenum 49 ppm Nickel 3 ppm Titanium ppm **||** <1 Silver 2 ppm Manganese 1 ppm Vanadium ppm <1 **ADDITIVES** Calcium 1418 ppm Magnesium 732 ppm Zinc ppm 1254 995 Phosphorus ppm Barium 0 ppm Boron ppm 0 Depot:

VP297371 Unique No: 10420118 Signed: Don Baldridge **Report Date:** 

14 Apr 2023

Contact/Location: DENNIS BUTT - VP297371



Jefferson Beach Yacht Sales Inc 24400 Jefferson Ave. SAINT CLAIR SHORES, MI US 48080 Contact: DENNIS BUTT dbutt@jbys.com T: (866)490-5297

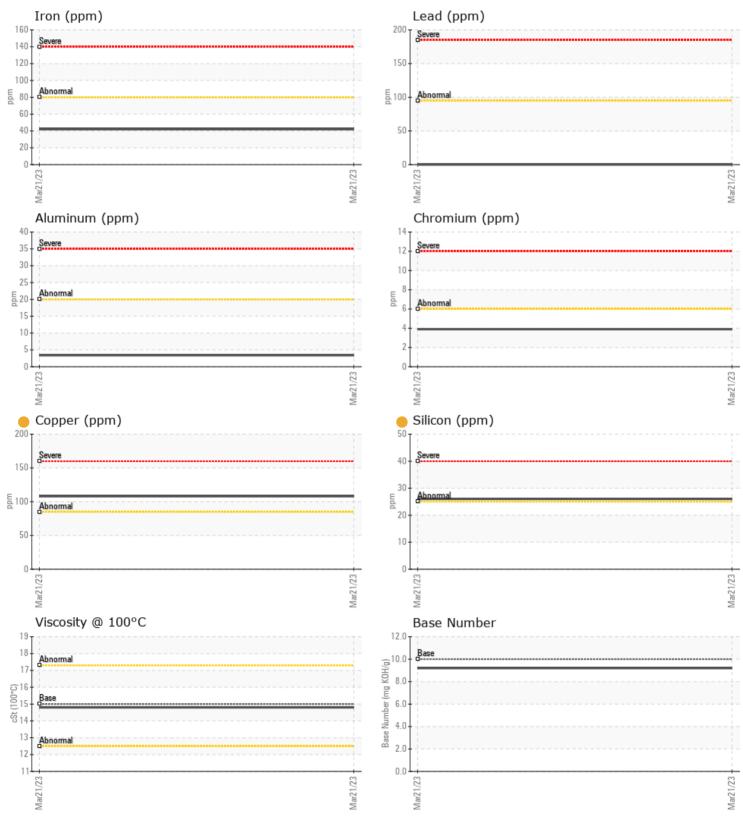
## Diagnosis

Oil and filter change at the time of sampling has been noted. 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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

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### GRAPHS



Report Id: VP297371 [WUSCAR] 05817326 (Generated: 04/03/2024 09:20:17) Rev: 1

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