OIL ANALYSIS REPORT

KEITH WILLIAMS GB6018 VOLVO PENTA 2013976255 - PORT DIESEL ENGINE

VPA049509 Sample No:

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION VPA049509 VPA044267 Sample Number **GRAND BANKS** Sample Date 14 Dec 2023 21 Nov 2022 Machine Hours 662 432 200 0 **Oil Hours** Oil Changed Changed Changed NORMAL Sample Status ATTENTION **OIL CONDITION** F: 12.8 Visc @ 100°C 10.8 cSt Base Number (BN) mg KOH/g 8.5 9.6 Oxidation (PA) % 60 96 CONTAMINATION Water % NEG NFG % Soot % 0.3 0.4 Nitration (PA) % 57 76 Sulfation (PA) % 53 71 Glycol % NEG NEG Fuel % <1.0 1.8 Silicon 14 31 ppm Sodium 0 🔲 2 ppm Potassium 2 18 ppm WEAR METALS 25 Iron 9 ppm 7 25 Copper ppm Lead 4 ppm 1 🗌 Tin **4** ppm ■ <1 Aluminum 6 ppm 2 Chromium <1 < 1 ppm Molybdenum 36 ppm 57 Nickel 0 🔲 0 ppm Titanium ppm 0 🔲 0 Silver 0 0 ppm Manganese 2 **||** < 1 ppm Vanadium 0 ppm 0 **ADDITIVES** 1713 Calcium 1211 ppm 854 430 Magnesium ppm Zinc ppm 1239 1087 Phosphorus ppm 1065 913 Barium 0 0 ppm Boron ppm 6 46

450 SW SALEM RD STUART, FL

US 34994 Contact: ROBERT ANTONA roberta@gbmarinegroup.com T: (609)384-5290

Diagnosis

No corrective action is recommended at this time. 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 acceptable for the time in service.

VP531377 Depot: Unique No: 10802525 Signed: Sean Felton **Report Date:** 22 Dec 2023

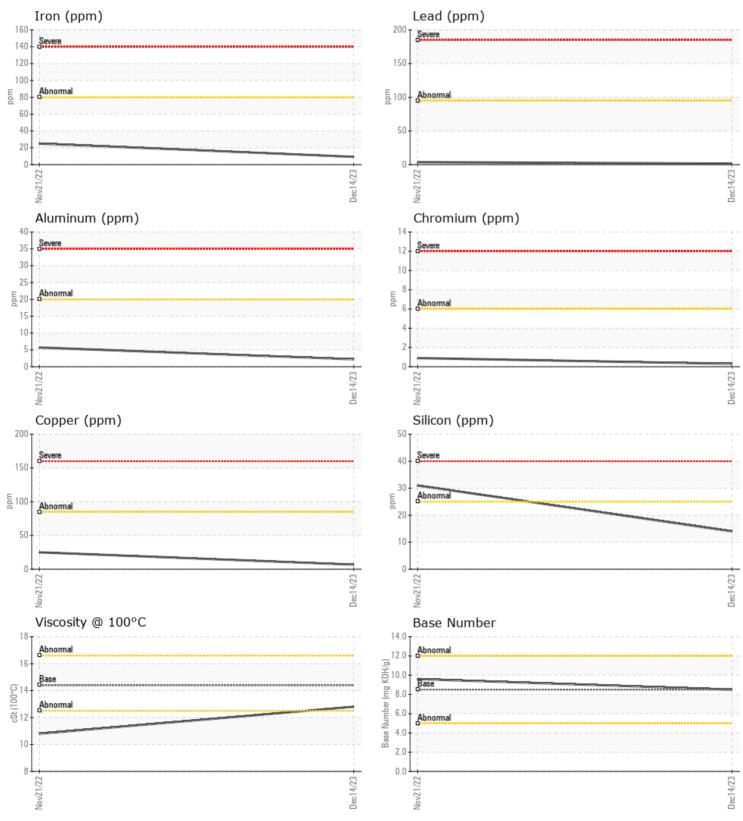
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GRAPHS



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