OIL ANALYSIS REPORT

DEVEN PITT 318802 3940016535 - STARBOARD IPS

Sample No: VPA056626

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION VPA056626 Sample Number Sample Date 15 Jul 2023 Machine Hours 1047 **Oil Hours** 1046 Oil Changed Changed ABNORMAL Sample Status **OIL CONDITION** Visc @ 40°C cSt 109 Visc @ 100°C cSt 27.1 Viscosity Index (VI) Scale 283 CONTAMINATION % Water **0.617** Silicon ppm 30 Sodium mag 51 Potassium ppm 2 WEAR METALS PQ 0 Iron 544 ppm **48** Copper ppm Lead ppm 4 Tin 0 ppm Aluminum **1**2 ppm Chromium ppm 5 Molybdenum 2 ppm Nickel 6 ppm Titanium ppm <1 Silver ppm 1 Manganese 5 ppm Vanadium 0 ppm **ADDITIVES** Calcium ppm 9 Magnesium 7 ppm Zinc ppm 24 Phosphorus 1387 ppm



HINDSON MARINE SERVICE INC

79 CHAMPLAIN ROAD, P.O. BOX 5025 Penetanguishene, ON CA L9M 2G2 Contact: Pat Walker ptwalker@rogers.com T: (705)330-1082 F: (705)549-3138

Diagnosis

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.Iron, aluminum and copper ppm levels are abnormal. There is a moderate concentration of water present in the oil. Elemental level of calcium (Ca) indicates contamination with brine (salt water). The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:	ROB79PEN
Unique No:	5620334
Signed:	Kevin Marson
Report Date:	14 Aug 2023

1 235

ppm

ppm

Barium

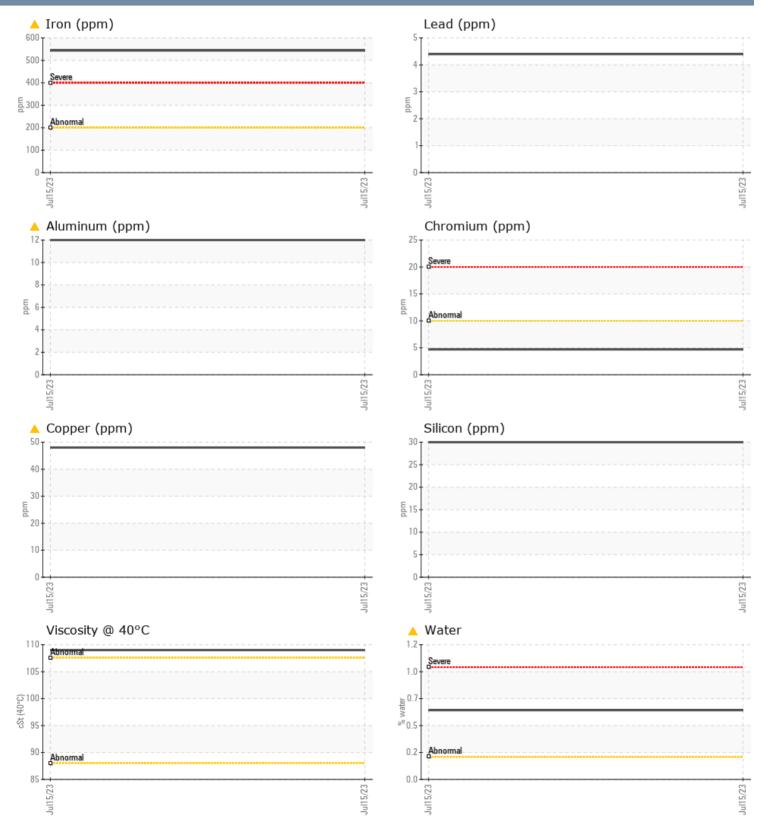
Boron

Contact/Location: Pat Walker - ROB79PEN

OIL ANALYSIS REPORT



GRAPHS



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