## **OIL ANALYSIS REPORT**

#### 3573/60-24 NORTHERN LIGHTS 8432-60473 - CENTER GENSET

Sample No: VPA054062

**Oil Type:** SHELL 15W40

#### SAMPLE INFORMATION VPA054062 Sample Number **GRAND BANKS** Sample Date 23 Apr 2024 450 SW SALEM RD Machine Hours 73 STUART, FL 0 **Oil Hours** US 34994 Oil Changed Changed Contact: ROBERT ANTONA ATTENTION Sample Status roberta@gbmarinegroup.com T: (609)384-5290 **OIL CONDITION** F: Visc @ 100°C cSt 11.1 Base Number (BN) mg KOH/g 9.6 Oxidation (PA) % 48 CONTAMINATION % NEG Water % Soot % 0.1 Nitration (PA) % 46 % Sulfation (PA) 48 Glycol % NEG Fuel % 0.3 Silicon 8 ppm Sodium 0 🔲 ppm Potassium 0 🔲 ppm WEAR METALS Iron 5 ppm 3 Copper ppm Lead ppm 5 Tin ■ <1 ppm Aluminum ppm 4 Chromium ppm <1 179 🔲 Molybdenum ppm Nickel 0 ppm Titanium ppm 0 0 Silver ppm Manganese ■ <1 ppm Vanadium 0 ppm **ADDITIVES** Calcium 1450 ppm Magnesium 856 ppm Zinc ppm 1044 920 Phosphorus ppm Barium 2 ppm Boron ppm 209 Depot: Signed:

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Diagnosis Oil and filter change at the time of

sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. 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.

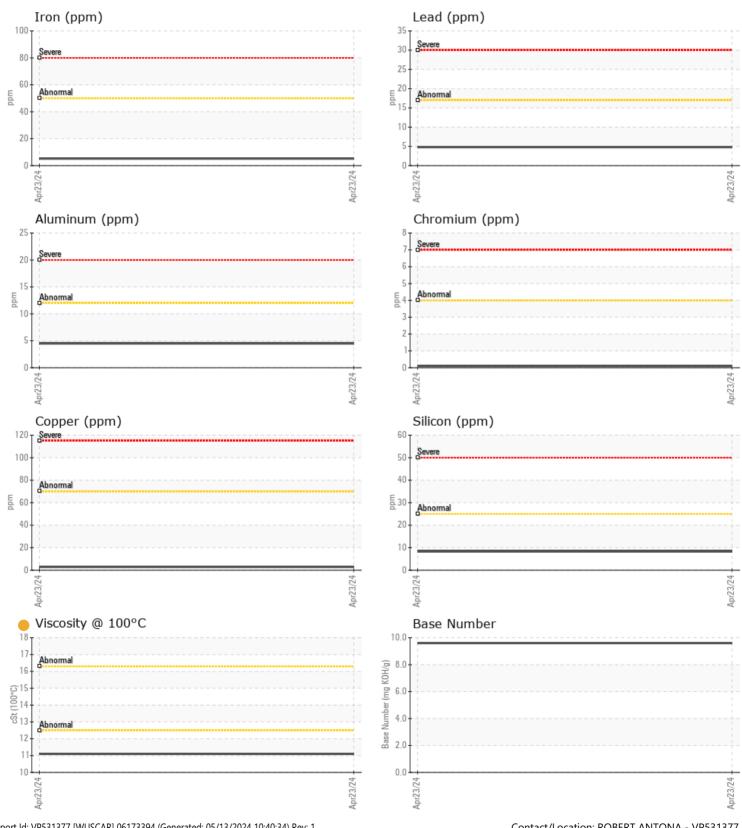


**Report Date:** 13 May 2024 Contact/Location: ROBERT ANTONA - VP531377

# **OIL ANALYSIS REPORT**



### GRAPHS



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Contact/Location: ROBERT ANTONA - VP531377