OIL ANALYSIS REPORT

NORTHERN LIGHTS 9442-57354 - GENSET

VPA051776 Sample No:

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION VPA051776 VPA05757560 Sample Number **NEWT MARINE** Sample Date 09 Aug 2023 27 Jan 2023 Machine Hours 1090 693 693 **Oil Hours** 0 Oil Changed Changed Not Changd NORMAL Sample Status NORMAL T: **OIL CONDITION** F: Visc @ 100°C 13.6 cSt 13.5 Base Number (BN) mg KOH/g 8.4 7.7 Oxidation (PA) % 76 66 CONTAMINATION 0.1 Soot % % 0.2 % Nitration (PA) 79 69 Sulfation (PA) % 58 55 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 21 19 Sodium 3 3 ppm Potassium 27 27 ppm WEAR METALS Iron ppm 29 21 13 10 Copper ppm Lead ppm 8 🔲 4 Tin 2 1 ppm 6 Aluminum 7 ppm 1 Chromium 1 ppm Molybdenum 72 ppm 75 Nickel 0 0 ppm Titanium <1 ppm < 1 0 Silver ppm 0 Manganese 1 🔲 <1 ppm Vanadium 0 ppm <1 **ADDITIVES** Calcium 1718 1501 ppm Magnesium 875 765 ppm 1337 1199 Zinc ppm Phosphorus ppm 941 917 Barium ppm 0 🔲 4 26 Boron ppm 22 Depot:

VP99298099 Unique No: 10593018 Signed: Don Baldridge

Report Id: VP99298099 [WUSCAR] 05921104 (Generated: 08/11/2023 14:14:15) Rev: 1

DUBUQUE, IA US 52001 Contact: DON LEIK service@newtmarine.com

Diagnosis

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.

11 Aug 2023

Report Date:

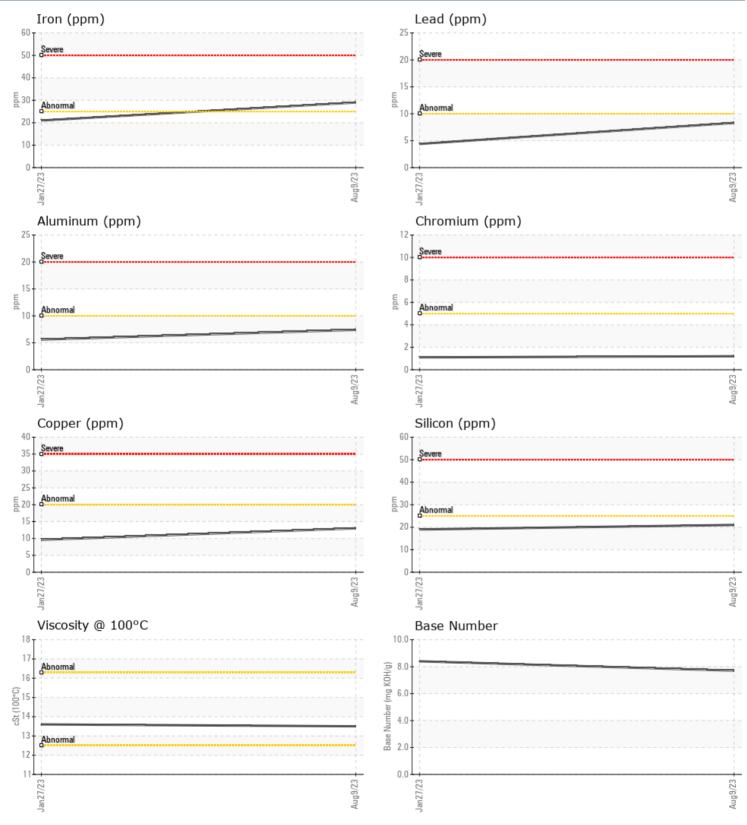


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OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: DON LEIK - VP99298099