OIL ANALYSIS REPORT

ROSCOE NORTHERN LIGHTS 9442-57357 - STARBOARD GENSET

Sample No: VPA051928

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

SAMPLE INFORMATION VPA051928 Sample Number Sample Date 18 Jul 2023 Machine Hours 1567 **Oil Hours** 560 Oil Changed Not Changd NORMAL Sample Status T: **OIL CONDITION** F: Visc @ 100°C cSt 13.3 Base Number (BN) mg KOH/g 8.9 Oxidation (PA) % 64 CONTAMINATION Soot % % 0.2 % Nitration (PA) 64 Sulfation (PA) % 55 % Glycol NEG Fuel % <1.0 Silicon ppm 14 Sodium 1 ppm Potassium 10 ppm WEAR METALS 18 Iron ppm 10 Copper ppm Lead ppm 3 Tin 2 ppm Aluminum 6 ppm Chromium **|** <1 ppm Molybdenum ppm 72 Nickel 0 ppm Titanium <1 ppm 0 Silver ppm Manganese **||** <1 ppm Vanadium <1 ppm **ADDITIVES** Calcium 1420 ppm 1077 Magnesium ppm Zinc ppm **1462** Phosphorus ppm 1067 Barium ppm 0 Boron ppm 5

VOLVO PENTA

NEWT MARINE 5 JONES ST DUBUQUE, IA US 52001 Contact: DON LEIK service@newtmarine.com T:

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.

 Depot:
 VP99298099

 Unique No:
 10593020

 Signed:
 Don Baldridge

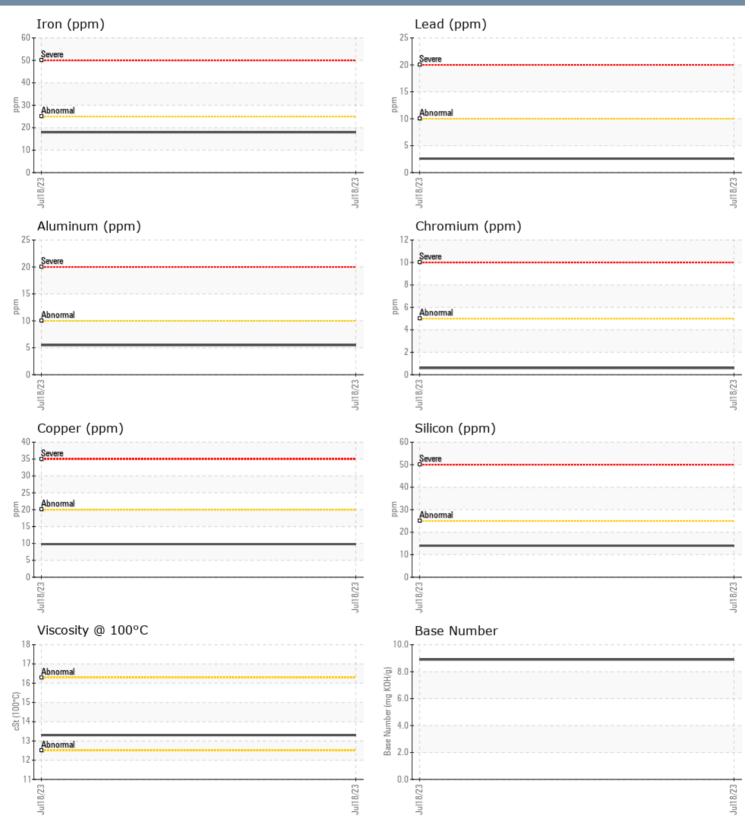
 Report Date:
 11 Aug 2023

Contact/Location: DON LEIK - VP99298099

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP99298099 [WUSCAR] 05921106 (Generated: 08/11/2023 14:14:24) Rev: 1

Contact/Location: DON LEIK - VP99298099