OIL ANALYSIS REPORT



20066022237 - STARBOARD DIESEL ENGINE

Sample No: VPA031377

Oil Type: SHELL ROTELLA T6 5W40

SAMPLE INFORMATION VPA031377 Sample Number Sample Date 04 Jun 2024 Machine Hours 935 0 **Oil Hours** Oil Changed N/A NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.8 Oxidation (PA) % 55 CONTAMINATION Water % NEG % Soot % 0 Nitration (PA) % 46 Sulfation (PA) % 52 Glycol % NEG % Fuel <1.0 Silicon ppm 4 Sodium ppm 38 Potassium 2 ppm WEAR METALS

Iron ppm 8 Copper **4** ppm Lead ppm 7 Tin ■ <1 ppm Aluminum 2 ppm 0 Chromium ppm Molybdenum 35 ppm Nickel ■ <1 ppm Titanium 0 🔲 ppm Silver ppm 0 🔲 Manganese 0 🔲 ppm Vanadium 0 ppm

ADDITIVES

Calcium	ppm	1567	 	
Magnesium	ppm	567	 	
Zinc	ppm	1136	 	
Phosphorus	ppm	988	 	
Barium	ppm	0	 	
Boron	ppm	57	 	

GBCS - GEORGIAN BAY SERVICES

171-8 ROBERT ST EAST PENETANGUISHENE, ON CA L9M 1G9 Contact: James Barrow james@gbcs.ca T: (705)528-9007 F:

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

 Depot:
 GBCPEN

 Unique No:
 5789770

 Signed:
 Kevin Marson

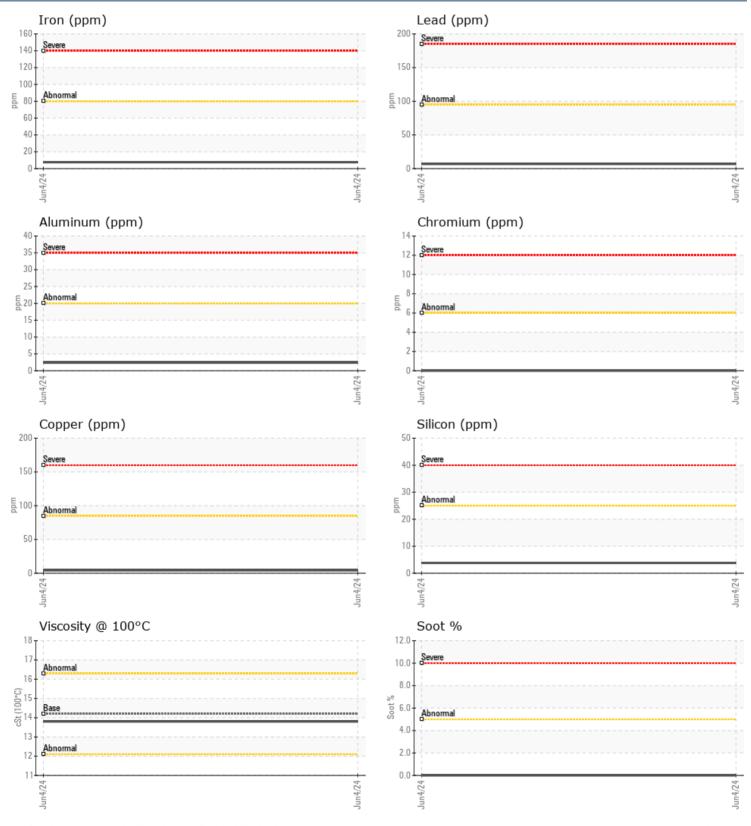
 Report Date:
 07 Jun 2024

Contact/Location: James Barrow - GBCPEN

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GRAPHS



Report Id: GBCPEN [WCAMIS] 02640608 (Generated: 06/07/2024 15:40:50) Rev: 1

Contact/Location: James Barrow - GBCPEN Page 2 of 2