### **OIL ANALYSIS REPORT**

### MARK SARRAINO 318872 7008483288 - STARBOARD DIESEL ENGINE

Sample No: VPA056627

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number		VPA056627	 	
Sample Date		26 Jul 2023	 	
Machine Hours		10	 	
Oil Hours		10	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.5	 	
Oxidation (PA)	%	60	 	
CONTAMINATION				
Soot %	%	0.4	 	
Nitration (PA)	%	60	 	
Sulfation (PA)	%	58	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>12</b>	 	
Sodium	ppm	2	 	
Potassium	ppm	<b>4</b>	 	
WEAR METALS				
Iron	ppm	<b>1</b> 0	 	
Copper	ppm	<b>17</b>	 	
Lead	ppm		 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	<b>41</b>	 	
Nickel	ppm	<b>  </b> <1	 	
Titanium	ppm	0	 	
Silver	ppm	■ <1	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	0	 	

# ADDITIVES Calcium ppm 2325 --- Magnesium ppm 112 --- Zinc ppm 1239 --- Phosphorus ppm 1118 ---

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HINDSON MARINE SERVICE INC 79 CHAMPLAIN ROAD, P.O. BOX 5025

VOLVO Penta

Penetanguishene, ON CA L9M 2G2 Contact: Pat Walker ptwalker@rogers.com T: (705)330-1082 F: (705)549-3138

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.Metal levels are typical for a components first oil change. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 ROB79PEN

 Unique No:
 5620336

 Signed:
 Kevin Marson

 Report Date:
 11 Aug 2023

ppm

ppm

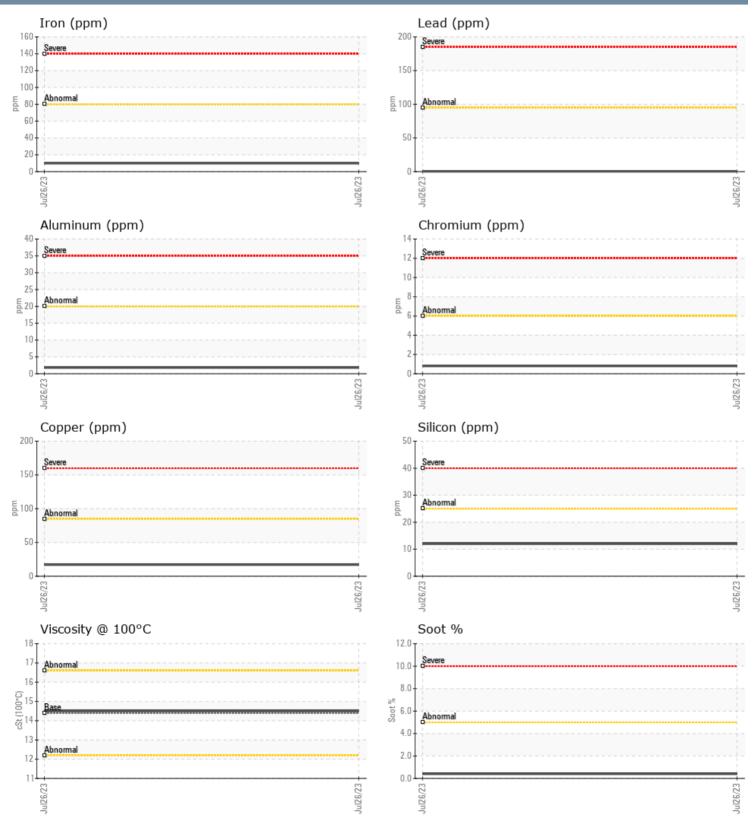
Barium

Boron

## **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: ROB79PEN [WCAMIS] 02575285 (Generated: 08/11/2023 15:03:11) Rev: 1

Contact/Location: Pat Walker - ROB79PEN