## **OIL ANALYSIS REPORT**

### LINDQUIST 520S-24 JC VOLVO PENTA A939417 - STARBOARD DIESEL ENGINE

Sample No: VPA021850

Oil Type: SHELL ROTELLA T 15W40

#### SAMPLE INFORMATION

SAMPLE INFURMA				
Sample Number		VPA021850	 	
Sample Date		12 Dec 2023	 	
Machine Hours		294	 	
Oil Hours		20	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.8</b>	 	
Base Number (BN)	mg KOH/g	9.9	 	
Oxidation (PA)	%	53	 	
CONTAMINATION				
	0(	NEC		
Water	%	NEG	 	
Soot %	%	<b>0.1</b>	 	
Nitration (PA)	%	38	 	
Sulfation (PA)	%	51	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	<b>■</b> <1	 	
Potassium	ppm	0	 	
WEAR METALS				
Iron	ppm	<b>1</b>	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	□<1	 	
Aluminum	ppm		 	
Chromium	ppm	0	 	
Molybdenum	ppm	53	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	<b>1042</b>	 	
Magnesium	ppm	887	 	
Zinc	ppm	<b>1208</b>	 	
Phosphorus	ppm	<b>1007</b>	 	
Barium	ppm	0	 	
-		- 10		

Outstanding Marine PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T:

#### Diagnosis

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. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VP153685

 Unique No:
 10816327

 Signed:
 Sean Felton

 Report Date:
 04 Jan 2024

**10** 

ppm

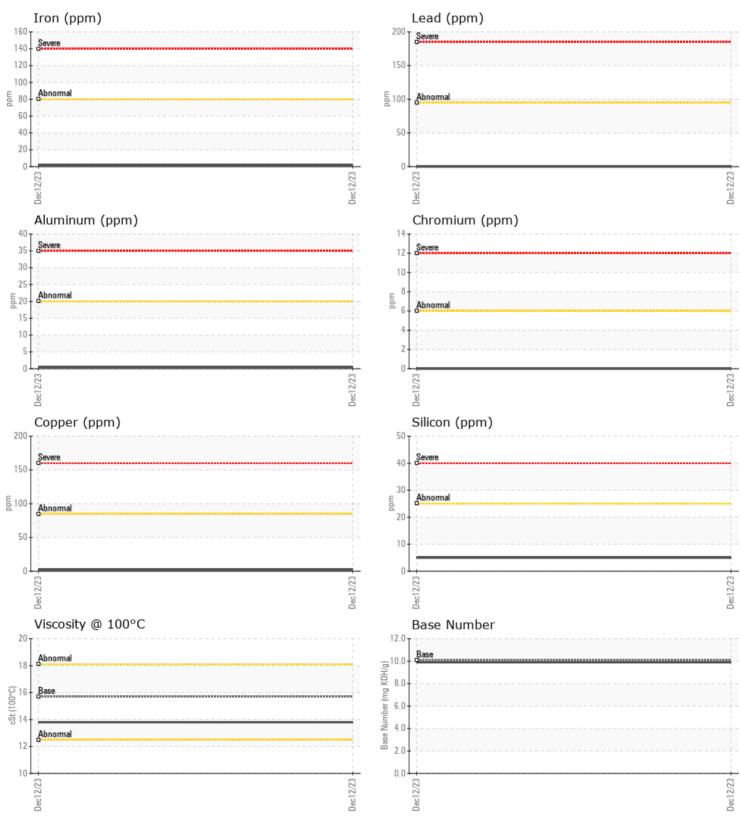
Boron

Contact/Location: Ronda Bolinger - VP153685

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP153685 [WUSCAR] 06050378 (Generated: 01/04/2024 16:34:40) Rev: 1

Contact/Location: Ronda Bolinger - VP153685