## **OIL ANALYSIS REPORT**

### SLY DZIUBA 520-278 JAY VOLVO PENTA A1186684 - STARBOARD DIESEL ENGINE

Sample No: VPA058370

Oil Type: DIESEL ENGINE OIL SAE 40

#### SAMPLE INFORMATION

SAMIFLE INFURMA				
Sample Number		VPA058370	 	
Sample Date		14 Nov 2023	 	
Machine Hours		129	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>14.0</b>	 	
Base Number (BN)	mg KOH/g	9.3	 	
Oxidation (PA)	%	58	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%		 	
Nitration (PA)	%	58	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	20	 	
Sodium	ppm	3	 	
Potassium	ppm	<b>4</b>	 	
	ppin	• •		
WEAR METALS				
Iron	ppm	<b>42</b>	 	
Copper	ppm	28	 	
Lead	ppm	8	 	
Tin	ppm	<b>4</b>	 	
Aluminum	ppm	<b>16</b>	 	
Chromium	ppm	3	 	
Molybdenum	ppm	65	 	
Nickel	ppm	2	 	
Titanium	ppm	<b></b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	
ADDITIVES				
		- 101:		
Calcium	ppm	1211	 	
Magnesium	ppm	<b>796</b>	 	
Zinc	ppm	<b>1134</b>	 	
Phosphorus	ppm	943	 	
Barium	ppm	<b>1</b>	 	
Boron	ppm	<b>18</b>	 	



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.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:
 VP153685

 Unique No:
 10764044

 Signed:
 Don Baldridge

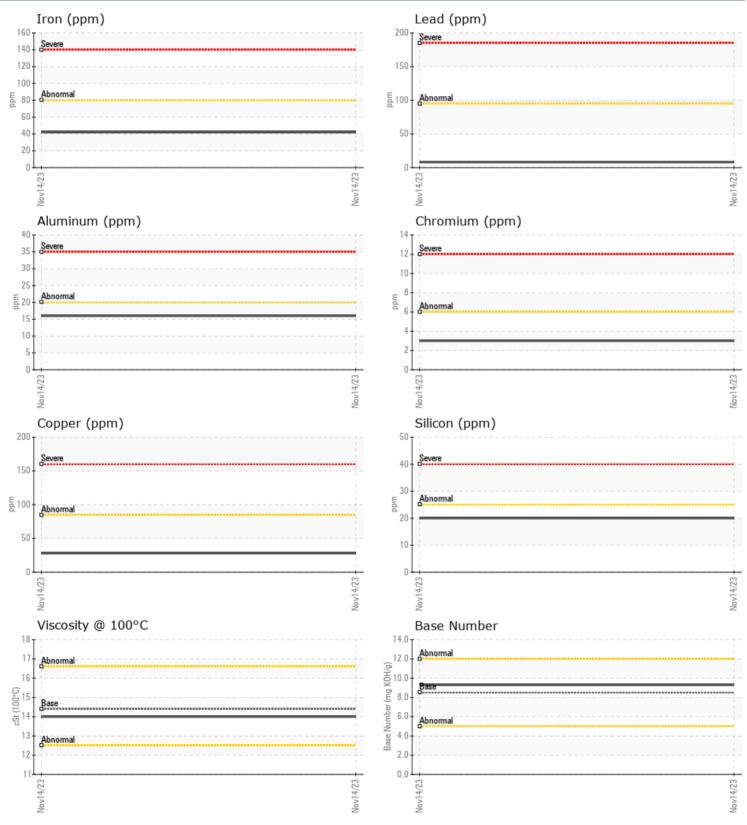
 Report Date:
 01 Dec 2023

Contact/Location: Ronda Bolinger - VP153685

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#### GRAPHS



Report Id: VP153685 [WUSCAR] 06019544 (Generated: 12/02/2023 05:43:18) Rev: 1

Contact/Location: Ronda Bolinger - VP153685