## **OIL ANALYSIS REPORT**

#### 36 FT SARGO 36 FT SARGO VOLVO PENTA A 1 1 59641 - STARBOARD DIESEL ENGINE

Sample No: VPA058176

**Oil Type: DIESEL ENGINE OIL SAE 15W40** 

### SAMPLE INFORMATION

SAMPLE INFURM				
Sample Number		VPA058176	 	
Sample Date		13 Feb 2024	 	
Machine Hours		144	 	
Oil Hours		144	 	
Oil Changed		Changed	 	
Sample Status		MARGINAL	 	
	_			
OIL CONDITION				
Visc @ 100°C	cSt	🔺 12.2	 	
Base Number (BN	) mg KOH/g	<b>10.3</b>	 	
Oxidation (PA)	%	78	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.2	 	
Nitration (PA)	%	50	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	0.3	 	
Silicon	ppm	24	 	
Sodium	ppm	0	 	
Potassium	ppm	3	 	
Fotassium	ppin	<b>3</b>	 	
WEAR METALS				
Iron	ppm	22	 	
Copper	ppm	<b>1</b> 4	 	
Lead	ppm	3	 	
Tin	ppm	2	 	
Aluminum	ppm	<b>4</b>	 	
Chromium	ppm	1	 	
Molybdenum	ppm	34	 	
Nickel	ppm	2	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1285	 	
Magnesium	ppm	388	 	
Zinc	ppm	894	 	
Phosphorus	ppm	749	 	
Barium	ppm	<b>■</b> <1	 	
Boron	ppm	53	 	



Harbor Diesel Inc Th Street RTES, WA 221 ROBBIN MURDOCK Dnorthharbordiesel.com 299-1904

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filter change at the time of ng has been noted. Resample next service interval to or.All component wear rates mal. Fuel content negligible. s no indication of any nination in the oil. The oil ty is lower than normal. The ult indicates that there is e alkalinity remaining in the oil.

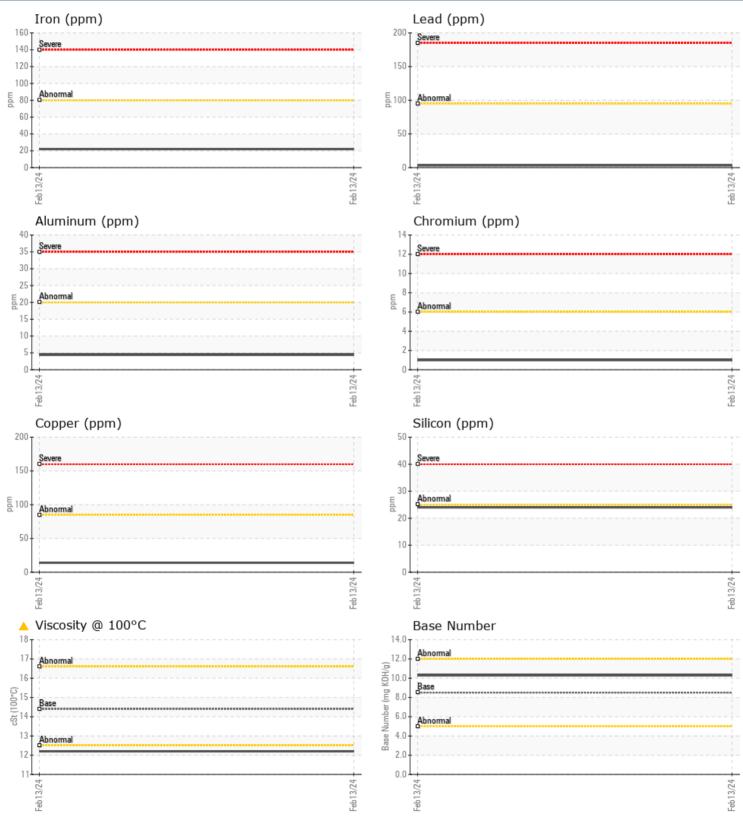
VP179089 Depot: 10888082 Unique No: Jonathan Hester Signed: Report Date: 23 Feb 2024

Contact/Location: ROBBIN MURDOCK - VP179089

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP179089 [WUSCAR] 06095229 (Generated: 02/23/2024 15:13:42) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089