## **OIL ANALYSIS REPORT**

### PHIL PHIL VOLVO PENTA A 1176260 - STARBOARD DIESEL ENGINE

Sample No: VPA055000

**Oil Type:** DIESEL ENGINE OIL SAE 40

#### SAMPLE INFORMATION

JAMILE INLOUMA	IIUN			
Sample Number		VPA055000	 	
Sample Date		07 May 2024	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.6	 	
Base Number (BN)	mg KOH/g	8.5	 	
Oxidation (PA)	%	59	 	
. ,	70	55		
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.6	 	
Nitration (PA)	%	57	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	20	 	
Sodium	ppm	<b>3</b>	 	
Potassium	ppm	3	 	
WEAR METALS				
Iron	ppm	33	 	
Copper	ppm	<b>1</b> 9	 	
Lead	ppm	8	 	
Tin	ppm	<b>4</b>	 	
Aluminum	ppm	8	 	
Chromium	ppm	2	 	
Molybdenum	ppm	55	 	
Nickel	ppm	∎1	 	
Titanium	ppm	<b>  </b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	∎1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1189	 	
Magnesium	ppm	806	 	
Zinc	ppm	1146	 	
Phosphorus	ppm	907	 	

Harry's Marine Service LLC 1141 N. Citrus St.

Orange, CA US 92887 Contact: TARAH AULD info@harrysmarine.com T: (714)771-7899 F:

#### Diagnosis

No corrective action is recommended at this time. 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.

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ppm

ppm

Barium

Boron

0 🔲

30

 Depot:
 VP867279

 Unique No:
 11019162

 Signed:
 Doug Bogart

 Report Date:
 10 May 2024

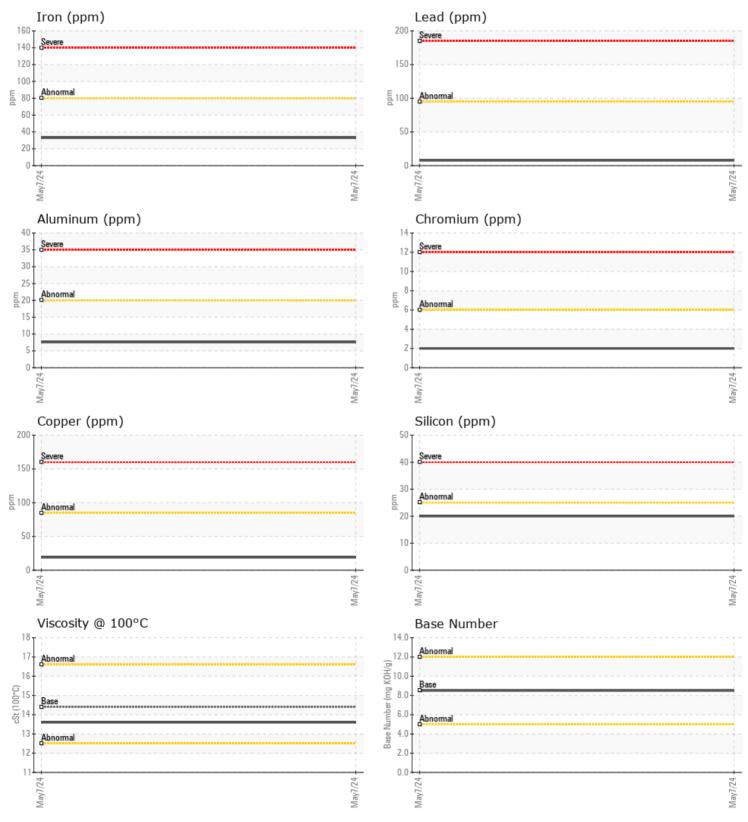
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# **OIL ANALYSIS REPORT**



#### GRAPHS



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