OIL ANALYSIS REPORT

SWOPE 460-199 PIG VOLVO PENTA A1170128 - STARBOARD DIESEL ENGINE

Sample No: VPA057073

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

SAMPLE INFURMA	IUN			
Sample Number		VPA057073	 	
Sample Date		13 Dec 2023	 	
Machine Hours		152	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.7	 	
Base Number (BN)	mg KOH/g	9.2	 	
Oxidation (PA)	%	58	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.5	 	
Nitration (PA)	%	51	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	1 6	 	
Sodium	ppm	2	 	
Potassium	ppm	■ <1	 	
WEAR METALS				
Iron	ppm	23	 	
Copper	ppm	15	 	
Lead	ppm	□4	 	
Tin	ppm	3	 	
Aluminum	ppm	7	 	
Chromium	ppm	2	 	
Molybdenum	ppm	□ = □ 59	 	
Nickel	ppm	2	 	
Titanium	ppm	□ □<1	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	<1	 	
	PP111		 	
ADDITIVES				
Calcium	ppm	1158	 	
Magnesium	ppm		 	
Zinc	ppm	1162	 	



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. Please specify the brand, type, and viscosity of the oil on your next sample.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:
 10816306

 Signed:
 Sean Felton

 Report Date:
 04 Jan 2024

962

0 🔲

17

ppm

ppm

ppm

Phosphorus

Barium

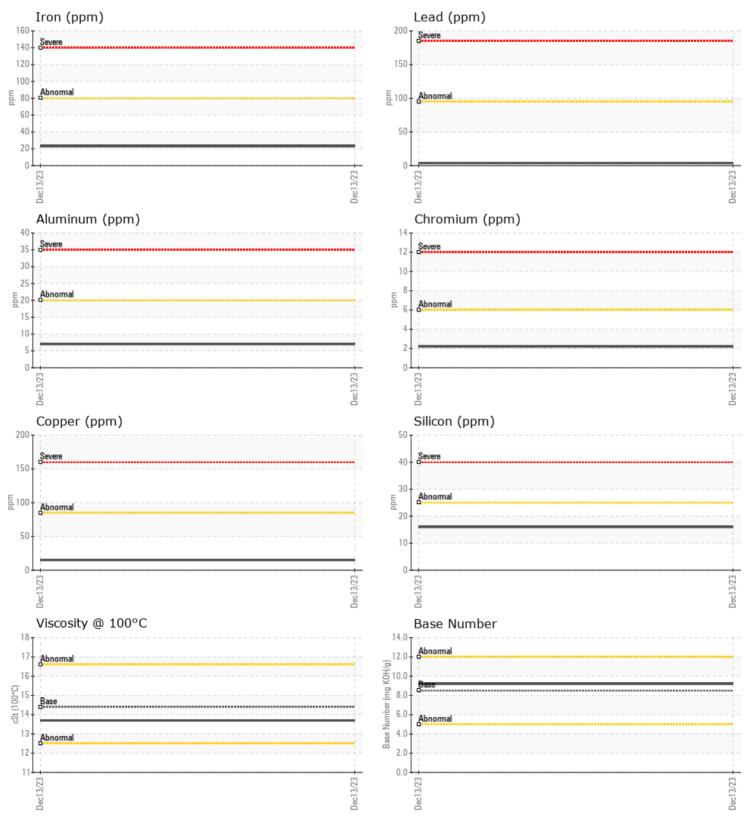
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Contact/Location: Ronda Bolinger - VP153685

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Ronda Bolinger - VP153685