OIL ANALYSIS REPORT

HARTZELL 520-286 JAY VOLVO PENTA A 1187998 - STARBOARD DIESEL ENGINE

Sample No: VPA057256

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

SAMIFLE INI VAMA I				
Sample Number		VPA057256	 	
Sample Date		08 Dec 2023	 	
Machine Hours		68	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	∎14.1	 	
Base Number (BN)	mg KOH/g	9.3	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.3	 	
Nitration (PA)	%	43	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	18	 	
Sodium	ppm	2	 	
Potassium	ppm	■ <1	 	
WEAR METALS				
Iron	ppm	1 9	 	
Copper	ppm	15	 	
Lead	ppm	2	 	
Tin	ppm	2	 	
Aluminum	ppm	15	 	
Chromium	ppm	2	 	
Molybdenum	ppm	62	 	
Nickel	ppm	2	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	∎1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1170	 	
Magnesium	ppm	 782	 	
Zinc	ppm	1140	 	
Phosphorus	ppm	966	 	

Outstanding Marine

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

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:
 10816301

 Signed:
 Sean Felton

 Report Date:
 04 Jan 2024

ppm

ppm

0 🔲

22

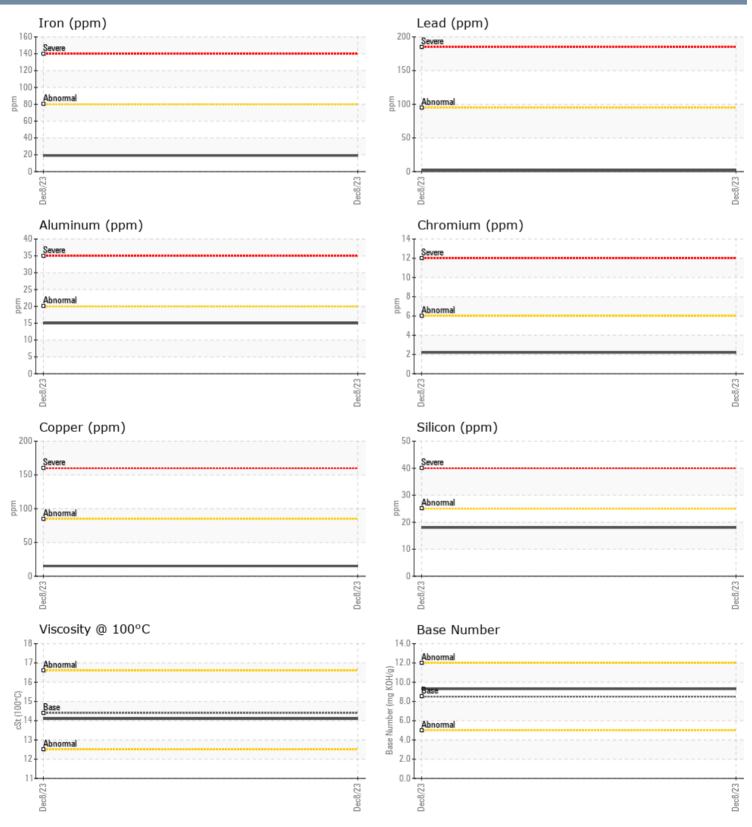
Barium

Boron

OIL ANALYSIS REPORT



GRAPHS



Contact/Location: Ronda Bolinger - VP153685