OIL ANALYSIS REPORT

JMADRA VOLVO PENTA A364867 - PORT DIESEL ENGINE

Sample No: VPA036388

Oil Type: VOLVO PENTA SAE 15W40

Sample Number		VPA036388	VPA031177	
Sample Date		15 Nov 2023	24 Sep 2021	
Machine Hours Oil Hours		1440 0	0	
Oil Changed Sample Status		N/A NORMAL	Changed NORMAL	
Sample Status		NORMAL	NORWAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.4	13.7	
Base Number (BN)	mg KOH/g	10.2		
Oxidation (PA)	%	58	62	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0.1	0.3	
Nitration (PA)	%	48	59	
Sulfation (PA)	%	53	57	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	7	4	
Sodium	ppm	0	 <1	
Potassium	ppm	2	 < 1	
WEAR METALS				
Iron	ppm	11	1 1	
Copper	ppm	5	10	
Lead	ppm	1 0	13	
Tin	ppm	 <1	 <1	
Aluminum	ppm	2	4	
Chromium	ppm	 <1	 <1	
Molybdenum	ppm	66	60	
Nickel	ppm	1	2	
Titanium	ppm	 <1	0	
Silver	ppm	0	 <1	
Manganese	ppm	 <1	 < 1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1093	1038	
Magnesium	ppm	960	961	
Zinc	ppm	1266	1145	
Phosphorus	ppm	1115	1037	
Barium	ppm	9	0	
Boron	ppm	0	3	

FULL KEEL MARINE SERVICES

314 LEGION AVE ANNAPOLIS, MD US 21401 Contact: Service Manager FULLKEELMARINESERIVES@GMAIL.COM T: (410)507-3542 F:

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.

 Unique No:
 10752362

 Signed:
 Don Baldridge

 Report Date:
 22 Nov 2023

Depot:

Contact/Location: Service Manager - VP1298996

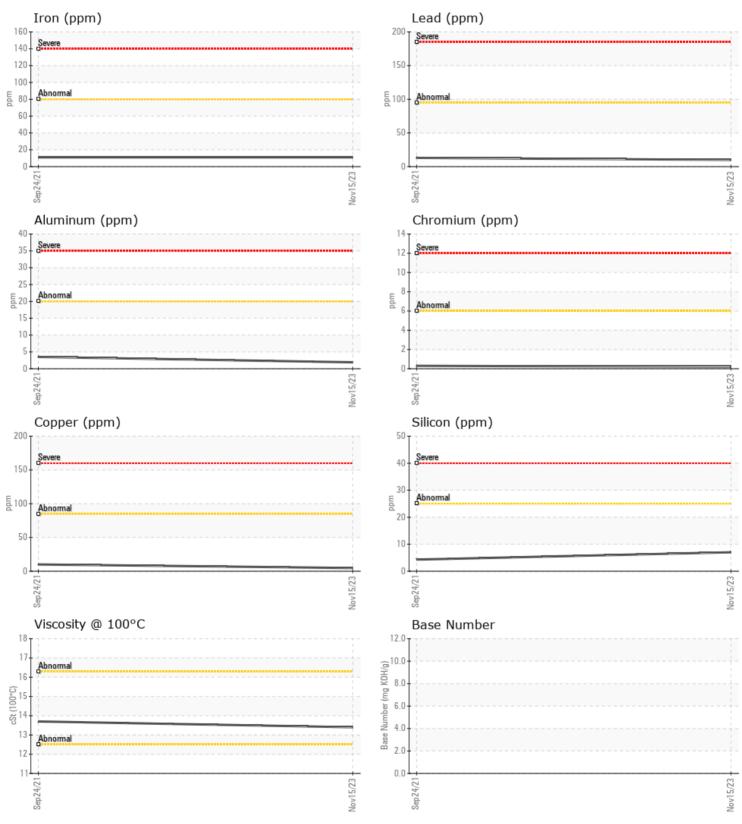
VP1298996



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP1298996 [WUSCAR] 06013218 (Generated: 11/22/2023 17:54:42) Rev: 1

Contact/Location: Service Manager - VP1298996