## **OIL ANALYSIS REPORT**

### VOLVO PENTA 2006017453 - PORT DIESEL ENGINE

Sample No: VPA056465

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number Sample Date		VPA056465 19 Mar 2024	VPA031127 11 Feb 2021	 
Machine Hours		744	437	 
Oil Hours		0	0	 
Oil Changed		Not Changd	Not Changd	 
Sample Status		NORMAL	NORMAL	 
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.7</b>	14.3	 
Base Number (BN)	mg KOH/g	7.8		 
Oxidation (PA)	%	54	63	 
CONTAMINATION				
Water	%	NEG	NEG	 
Soot %	%	0.1	0.1	 
Nitration (PA)	%	54	57	 
Sulfation (PA)	%	49	55	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	4	4	 
Sodium	ppm	2	4	 
Potassium	ppm	2	14	 
WEAR METALS				
		_ 0		
Iron	ppm	<b>8</b>	9 7	 
Copper Lead	ppm	1		 
Tin	ppm	■ <sup>-</sup>	□ <1 □ 0	 
Aluminum	ppm	3	6	 
Chromium	ppm ppm	<b>□</b> <1	2	 
Molybdenum	ppm	∎46	57	 
Nickel	ppm	<b>1</b>	1	 
Titanium	ppm	 <1	□ <1	 
Silver	ppm	0	0	 
Manganese	ppm	<b>■</b> <1	□ <1	 
Vanadium	ppm	<1	0	 
ADDITIVES				
Calcium	ppm	<b>1088</b>	1404	 
Magnesium	ppm	703	1009	 
Zinc	ppm	1053	1272	 
Phosphorus	ppm	881	1161	 
Barium	ppm	0	13	 
Boron	ppm	<b>1</b> 9	23	 
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MARINE DIESEL SERVICES INC

1711 WHITTIER AVE, SUITE B COSTA MESA, CA US 92627 Contact: BEN ALMAZAN marinedieselservices@outlook.com;BEN@MARINEDIESELSERVICE.COM T: (949)612-8180 F: x:

#### 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.

 Depot:
 VP288530

 Unique No:
 10937619

 Signed:
 Don Baldridge

 Report Date:
 22 Mar 2024

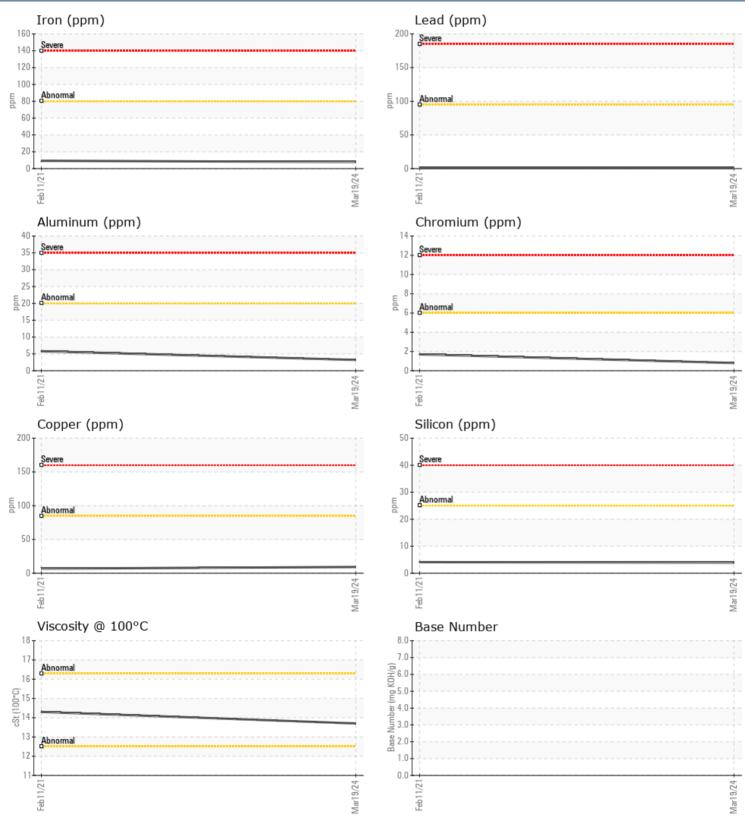
Contact/Location: BEN ALMAZAN - VP288530



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP288530 [WUSCAR] 06123468 (Generated: 03/22/2024 13:16:42) Rev: 1

Contact/Location: BEN ALMAZAN - VP288530