



## 503336 VOLVO PENTA 2204160345 - CENTER DIESEL ENGINE

Sample No: VPA062228

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA062228	 	
Sample Date		17 May 2024	 	
Machine Hours		1340	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.7</b>	 	
Base Number (BN)	mg KOH/g	■8.9	 	
Oxidation (PA)	%	62	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	<b>■0.1</b>	 	
Nitration (PA)	%	51	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>7</b>	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	<b>3</b>	 	
WEAD METALS				
WEAR METALS				
Iron	ppm	<b>5</b>	 	
Copper	ppm	<b>2</b>	 	
Lead	ppm	<b>1</b>	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	<b>■</b> 3	 	
Chromium	ppm	<b>■</b> <1	 	
Molybdenum	ppm	<b>106</b>	 	
Nickel	ppm	<b>■&lt;1</b>	 	
Titanium	ppm	<b>■&lt;1</b>	 	
Silver	ppm	<b>■1</b>	 	
Manganese	ppm	<b>■</b> <1	 	
Vanadium	ppm	<1	 	
ADDITIDDA				
Calcium	ppm	<b>1418</b>	 	
Magnesium	ppm	<b>677</b>	 	
Zinc	ppm	■843	 	
Phosphorus	ppm	 <b>689</b>	 	
Barium	ppm	<b>1</b>	 	
Boron	ppm	■341	 	

## **North Harbor Diesel Inc**

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## 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 suitable for further service.

Depot:VP179089Unique No:11048551Signed:Angela BorellaReport Date:29 May 2024

## **OIL ANALYSIS REPORT**



