## **OIL ANALYSIS REPORT**

### NADINE URCIUOLI PHILLIE VOLVO PENTA 4110181926 - CENTER GASOLINE ENGINE

Sample No: VPA051896

Oil Type: VOLVO

#### SAMPLE INFORMATION

Sample Number		VPA051896	 	
Sample Date		25 Mar 2024	 	
Machine Hours		841	 	
Oil Hours		841	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
Sample Status		NORMAE		
OIL CONDITION				
Visc @ 100°C	cSt	15.76	 	
Base Number (BN)	mg KOH/g	 <b></b> 8.0	 	
Oxidation (PA)	%	9	 	
		-		
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0	 	
Nitration (PA)	%	7	 	
Sulfation (PA)	%	9	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>10</b>	 	
Sodium	ppm	2	 	
Potassium	ppm	<b>1</b>	 	
WEAR METALS				
Iron	ppm	<b>1</b> 6	 	
Copper	ppm	<b>4</b>	 	
Lead	ppm	■<1	 	
Tin	ppm	∎1	 	
Aluminum	ppm	2	 	
Chromium	ppm		 	
Molybdenum	ppm	39	 	
Nickel	ppm		 	
Titanium	ppm	<1	 	
Silver	ppm	<b>0</b>	 	
Manganese	ppm	<1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1707	 	
Magnesium	ppm	9	 	
	ppm	765	 	
Zinc				
Zinc Phosphorus	ppm	629	 	
		629 0	 	

#### Helmuts Marine Service

619 Canal Street SAN RAFAEL, CA US 94901-3545 Contact: NADINE URCIUOLI SERVICE@HELMUTSMARINE.COM T: x: 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 suitable for further service.

 Depot:
 VP152741

 Unique No:
 10963034

 Signed:
 Jonathan Hester

 Report Date:
 10 Apr 2024

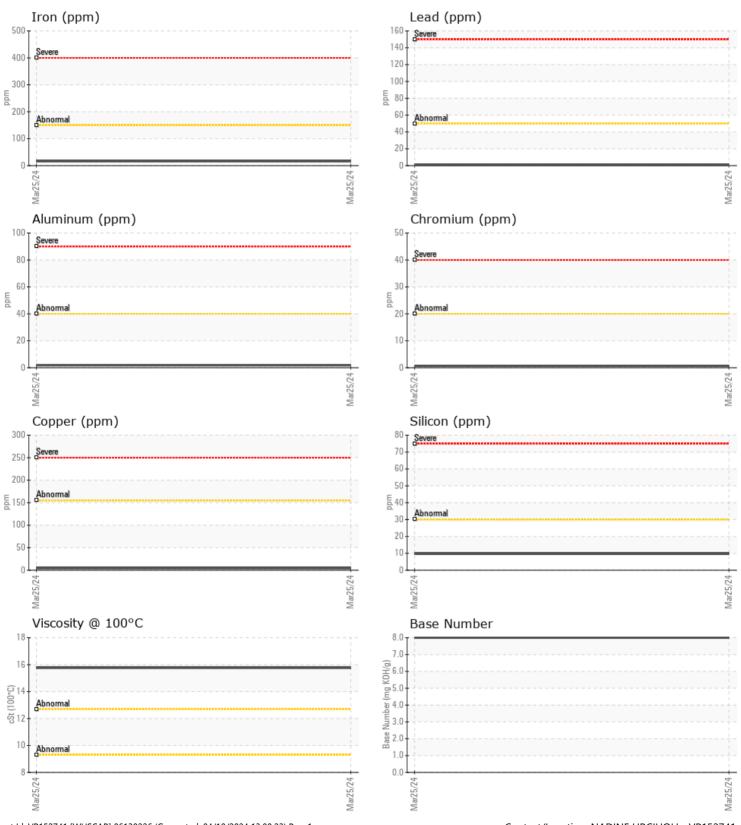
Contact/Location: NADINE URCIUOLI - VP152741



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#### GRAPHS



Report Id: VP152741 [WUSCAR] 06138226 (Generated: 04/10/2024 13:00:23) Rev: 1

Contact/Location: NADINE URCIUOLI - VP152741