## **OIL ANALYSIS REPORT**

### RICHARD ANDERSON PATRICK/502237-5250 VOLVO PENTA 20132153240 - PORT DIESEL ENGINE

Sample No: VPA055638

**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40

Sample Number		VPA055638	 	
Sample Date		07 Jul 2023	 	
Machine Hours		205	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.5		
Base Number (BN)	mg KOH/g	8.6	 	
Oxidation (PA)	%	78	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	58	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	35	 	
Sodium	ppm	2	 	
Potassium	ppm	25	 	
WEAR METALS	ppm	12	 	
Copper	ppm	27	 	
Lead		2	 	
Tin	ppm	2	 	
Aluminum	ppm		 	
Chromium	ppm	■14 ■<1		
	ppm			
	ppm	<b>4</b> 9	 	
Molybdenum	10.10.100			
Nickel	ppm	0	 	
Nickel Titanium	ppm	■ <1	 	
Nickel Titanium Silver	ppm ppm	<b>□</b> <1 <b>□</b> 0	 	
Nickel Titanium Silver Manganese	ppm ppm ppm	□ <1 □ 0 □ 2	 	
Nickel Titanium Silver	ppm ppm	<b>□</b> <1 <b>□</b> 0	 	
Nickel Titanium Silver Manganese	ppm ppm ppm	□ <1 □ 0 □ 2	 	
Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium	ppm ppm ppm	<pre>&lt;1 0 2 &lt;1 1891</pre>	 	
Nickel Titanium Silver Manganese Vanadium ADDITIVES	ppm ppm ppm ppm	<pre>&lt;1 0 2 &lt;1 1891 453</pre>	 	
Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium	ppm ppm ppm ppm	<pre>&lt;1 0 2 &lt;1 1891</pre>	   	
Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium Magnesium	ppm ppm ppm ppm ppm	<pre>&lt;1 0 2 &lt;1 1891 453</pre>		
Nickel Titanium Silver Manganese Vanadium ADDITIVES Calcium Magnesium Zinc	ppm ppm ppm ppm ppm ppm ppm	<pre>&lt;1 0 2 &lt;1 </pre> 1 891 453 1017		

arine LLC - Coastal Marine - 152124 th Ave. NW E, WA 07 WILLOW YANARELLA @coastalmarineengine.com 784-3703 784-8823

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ple at the next service interval nitor.All component wear rates mal. There is no indication of ntamination in the oil. The BN ndicates that there is suitable ty remaining in the oil. The on of the oil is suitable for service.

VP794951 ique No: 10592881 Signed: Jonathan Hester Report Date: 11 Aug 2023

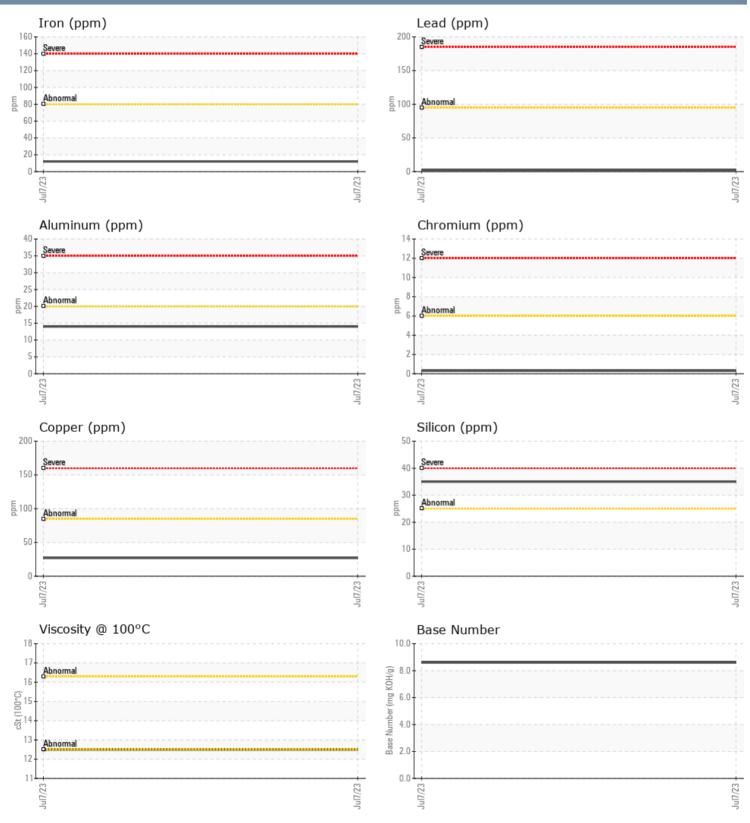
Contact/Location: WILLOW YANARELLA - VP794951



# **OIL ANALYSIS REPORT**



#### GRAPHS



Contact/Location: WILLOW YANARELLA - VP794951