



## BLAKE LANTZ PATRICK/502842-5250 VOLVO PENTA A323301 - PORT DIESEL ENGINE

Sample No: VPA059198

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

SAMPLE INFORMAT	LIUN			
Sample Number	HUN	VPA059198	VDA055422	 
•		12 Mar 2024	VPA055433 22 Mar 2023	
Sample Date Machine Hours		759	639	 
Oil Hours		0	0	
Oil Changed		Changed NORMAL	Changed NORMAL	 
Sample Status		NORIVIAL	NORIVIAL	 
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.2</b>	■13.4	 
Base Number (BN)	mg KOH/g	<b>10.3</b>	■10.4	 
Oxidation (PA)	%	69	57	 
CONTAMINATION				
Water	%	NEG	NEG	 
Soot %	%	■0.3	0.5	 
Nitration (PA)	%	47	57	 
Sulfation (PA)	%	57	55	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	<b>110</b>	<b>1</b> 6	 
Sodium	ppm	<b>■</b> <1	<b>4</b>	 
Potassium	ppm	<b>2</b>	<b>=</b> <1	 
WEAR METALS				
Iron	ppm	<b>1</b> 2	<b>□</b> 16	 
Copper	ppm	<b>8</b>	8	 
Lead	ppm	<b>■3</b>	■8	 
Tin	ppm	<1	<1	 
Aluminum	ppm	<b>4</b>	<b>4</b>	 
Chromium	ppm	<b>□</b> <1	1	 
Molybdenum	ppm	<b>■75</b>	<b>60</b>	 
Nickel	ppm	<b>2</b>	<1	 
Titanium	ppm	<b>■&lt;1</b>	0	 
Silver	ppm	<b>0</b>	0	 
Manganese	ppm	<b>■&lt;1</b>	□ <1	 
Vanadium	ppm	<1	<1	 
ADDITIVES	ppiii			
Calcium	ppm	<b>2184</b>	<b>1121</b>	 
Magnesium	ppm	<b>1017</b>	<b>9</b> 49	 
Zinc	ppm	<b>1547</b>	<b>1262</b>	 
Phosphorus	ppm	<b>1349</b>	■1046	 
Barium	ppm	■0	<b>2</b>	 
Boron	ppm	<b>63</b>	<b>2</b>	 

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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:VP794951Unique No:10928147Signed:Sean FeltonReport Date:19 Mar 2024

## **OIL ANALYSIS REPORT**



