



## MANCHESTER 30 LEFT AG R812467M VOLVO PENTA 2013930005 - VARIABLE SPEED - PORT DIESEL ENGINE

Sample No: VPA056730

**Oil Type:** VOLVO PENTA SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA056730	VPA048399	 
Sample Date		15 Sep 2023	06 Oct 2022	 
Machine Hours		300	203	 
Oil Hours		97	203	 
Oil Changed		N/A	N/A	 
Sample Status		ATTENTION	ATTENTION	 
OIL CONDITION				
Visc @ 100°C	cSt	<u> </u>	<b>▲</b> 11.9	 
Base Number (BN)	mg KOH/g	<b>10.3</b>	11.3	 
Oxidation (PA)	%	71	61	 
Oxidation (171)	70	, , , , , , , , , , , , , , , , , , ,	01	
CONTAMINATION				
Soot %	%	<b>0</b>	<b>0.1</b>	 
Nitration (PA)	%	44	52	 
Sulfation (PA)	%	57	55	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	2.2	 
Silicon	ppm	■8	17	 
Sodium	ppm	<b>2</b>	0	 
Potassium	ppm	<u>2</u>	4	 
Totassiam	рртт			
WEAR METALS				
Iron	ppm	<b>4</b>	<b>□</b> 9	 
Copper	ppm	<b>2</b>	<b>1</b> 1	 
Lead	ppm	■0	<1	 
Tin	ppm	<b>■</b> <1	2	 
Aluminum	ppm	<b>■</b> <1	<u> </u>	 
Chromium	ppm	<b>0</b>	<b>-</b> <1	 
Molybdenum	ppm	<b>1</b> 44	□ 59	 
Nickel	ppm	<b>0</b>	0	 
Titanium	ppm	0	0	 
Silver	ppm	<b>0</b>	0	 
Manganese		<b>■&lt;1</b>	<b>2</b>	 
Vanadium	ppm	0	0	 
variauluiii	ppiii		U	
ADDITIVES				
Calcium	ppm	<b>1547</b>	<b>1</b> 103	 
Magnesium	ppm	<b>610</b>	982	 
Zinc	ppm	■993	<u>□</u> 1305	 
Phosphorus	ppm	■801	□1066	 
Barium	ppm	■0	<b>□</b> 0	 
Boron	ppm	<b>■</b> 57	1	 
501011	PPIII			

## **Power Products Systems LLC**

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## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

 Depot:
 VP153549

 Unique No:
 10669750

 Signed:
 Sean Felton

 Report Date:
 29 Sep 2023

## **OIL ANALYSIS REPORT**



