## **OIL ANALYSIS REPORT**

## JOHN KEYES 7716690 VOLVO PENTA A213204 - PORT DIESEL ENGINE

Sample No: VPA055125

Oil Type: NOT GIVEN

#### SAMPLE INFORMATION

Sample Number		VPA055125	 	
Sample Date		19 Sep 2023	 	
Machine Hours		1056	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.3	 	
		_		
Base Number (BN)	5 . 5	9.4	 	
Oxidation (PA)	%	81	 	
CONTAMINATION				
CONTAMINATION				
Soot %	%	0.7	 	
Nitration (PA)	%	95	 	
Sulfation (PA)	%	68	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>11</b>	 	
Sodium	ppm	<b>426</b>	 	
Potassium	ppm	20	 	

## WEAR METALS

Iron	ppm	🛑 160	 	
Copper	ppm	22	 	
Lead	ppm	7	 	
Tin	ppm	3	 	
Aluminum	ppm	<b>e</b> 237	 	
Chromium	ppm	🛑 17	 	
Molybdenum	ppm	93	 	
Nickel	ppm	6	 	
Titanium	ppm	□<1	 	
Silver	ppm	<b>  </b> <1	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	

#### ADDITIVES

Calcium	ppm	<b>1644</b>	 	
Magnesium	ppm	646	 	
Zinc	ppm	985	 	
Phosphorus	ppm	765	 	
Barium	ppm	0	 	
Boron	ppm	<b>186</b>	 	

#### Pacific Power Group - VP981534

7215 S 228th St Kent, WA US 98032 Contact: PAT RYAN pryan@pacificpowergroup.com T: (253)520-5163 F:

### Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

 Depot:
 VP99031103

 Unique No:
 10673365

 Signed:
 Jonathan Hester

 Report Date:
 04 Oct 2023

Report Id: VP99031103 [WUSCAR] 05966814 (Generated: 10/05/2023 05:02:18) Rev: 1

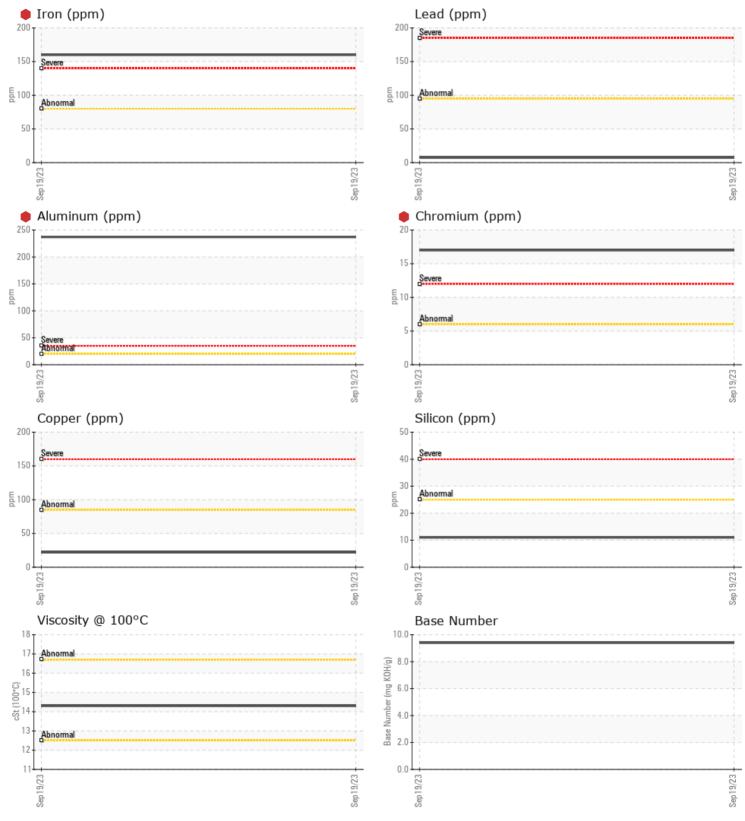
Contact/Location: PAT RYAN - VP99031103



# **OIL ANALYSIS REPORT**



#### GRAPHS



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Contact/Location: PAT RYAN - VP99031103