OIL ANALYSIS REPORT

GERHARD SENFT R815341 VOLVO PENTA A443573 - DIESEL ENGINE

Sample No: VPA050995

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA050995	 	
Sample Date		19 Oct 2023	 	
Machine Hours		8227	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	15.3	 	
Base Number (BN)	mg KOH/g	7.9	 	
Oxidation (PA)	%	31	 	
CONTAMINATION				
Soot %	%	0.1	 	
	%	42		
Nitration (PA)			 	
Sulfation (PA)	%	45	 	
Glycol	%	0.12	 	
Fuel	%	<1.0	 	
Silicon	ppm	■7	 	
Sodium	ppm	A 3704	 	
Potassium	ppm	A 140	 	

WEAR METALS

Iron	ppm	 126	 	
Copper	ppm	17	 	
Lead	ppm	5	 	
Tin	ppm		 	
Aluminum	ppm	62	 	
Chromium	ppm	3	 	
Molybdenum	ppm	3	 	
Nickel	ppm	Δ 5	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1442	 	
Magnesium	ppm	1631	 	
Zinc	ppm	1261	 	
Phosphorus	ppm	1060	 	
Barium	ppm	0	 	
Boron	ppm	20	 	

Power Products Systems LLC

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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 and cylinder wear is indicated. Valve wear is indicated. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

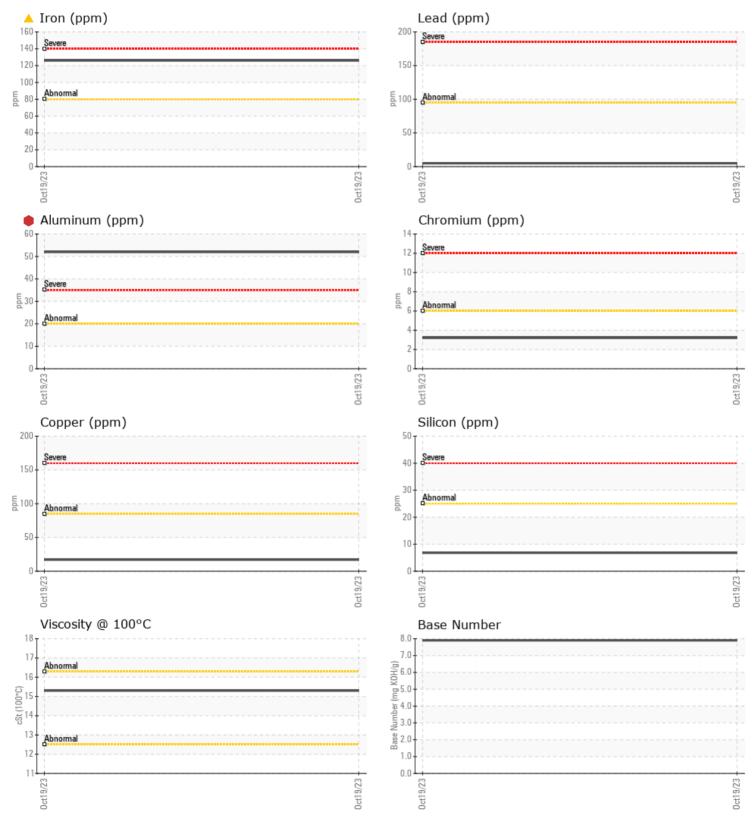


Contact/Location: Andy Tassinari - VP153550

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Andy Tassinari - VP153550