

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

WEAR METALS

Oil Age

Fuel

Iron

Nickel

Silver

Lead

Copper

Titanium

Aluminum

Chromium

Glycol

MANCHESTER 50 LEFT AG [R812467M] VOLVO PENTA 2013929976 - VARIABLE SPEED Component

Port Diesel Engine

VOLVO PENTA SAE 15W40 (10 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

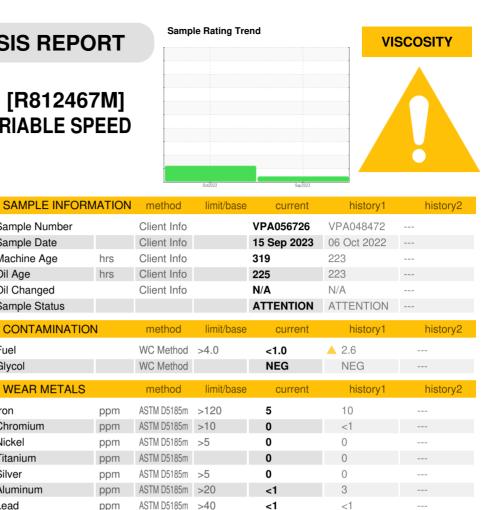
Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



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Tin	ppm	ASTM D5185m	>10	<1	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		59	<1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		44	58	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m		603	968	
Calcium	ppm	ASTM D5185m		1602	1085	
Phosphorus	ppm	ASTM D5185m		806	1050	
Zinc	ppm	ASTM D5185m		993	1285	
Sulfur	ppm	ASTM D5185m		2830	4011	
CONTAMINANT	C	mothod	limit/baco	ourropt	history1	history?

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ASTM D5185m >300

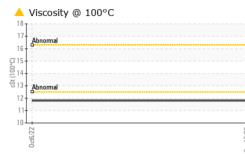
ppm

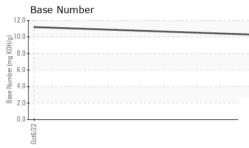
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Silicon	ppm	ASTM D5185m	>25	8	17	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	4	12	

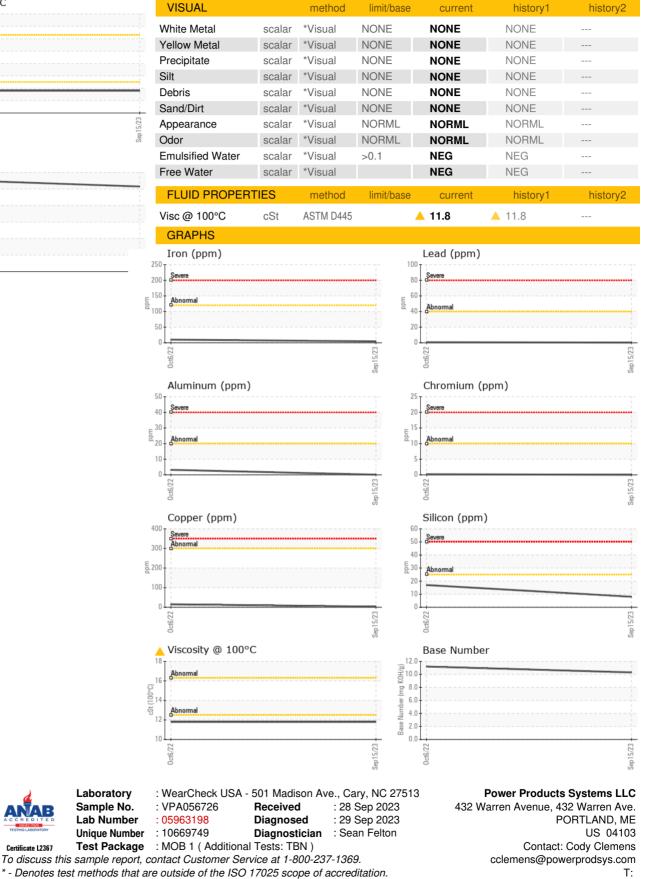
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.3	6.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.3	
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	15.5	
Base Number (BN)	ma KOH/a	ASTM D2896		10.3	11.2	



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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