

OIL ANALYSIS REPORT



MANCHESTER 40 DRIVE R812467M VOLVO PENTA 7011481578 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA056671
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056671	VPA048401	---	---
Sample Date	15 Sep 2023	06 Oct 2022	---	---
Machine Hours	210	110	---	---
Oil Hours	0	110	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ATTENTION	ATTENTION	---	---

Power Products Systems LLC
 432 Warren Avenue, 432 Warren Ave.
 PORTLAND, ME
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 Contact: Cody Clemens
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 12.1	---	---
Base Number (BN)	mg KOH/g	■ 10.7	■ 11.6	---	---
Oxidation (PA)	%	73	63	---	---

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	44	49	---	---
Sulfation (PA)	%	57	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.3	---	---
Silicon	ppm	■ 18	■ 31	---	---
Sodium	ppm	■ 2	■ 0	---	---
Potassium	ppm	■ <1	■ 2	---	---

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.

WEAR METALS

Iron	ppm	■ 4	■ 9	---	---
Copper	ppm	■ 3	■ 20	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ 2	---	---
Aluminum	ppm	■ <1	■ 1	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 43	■ 46	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1726	■ 1454	---	---
Magnesium	ppm	541	■ 733	---	---
Zinc	ppm	■ 969	■ 1254	---	---
Phosphorus	ppm	■ 792	■ 1031	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 71	■ 8	---	---

Depot: VP153549
Unique No: 10669751
Signed: Sean Felton
Report Date: 29 Sep 2023

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**VOLVO
PENTA**

GRAPHS

