

OIL ANALYSIS REPORT



MANCHESTER AIRPORT AP30 DRIVE R823699M VOLVO PENTA 2011481336 - VARIABLE SPEED - CENTER DIESEL ENGINE

Sample No: VPA060847
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA060847	VPA056728	VPA048398	---
Sample Date	10 May 2024	15 Sep 2023	06 Oct 2022	---
Machine Hours	451	353	236	---
Oil Hours	97	127	236	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

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

OIL CONDITION

Visc @ 100°C	cSt	12.0	11.9	11.6	---
Base Number (BN)	mg KOH/g	10.4	10.5	10.9	---
Oxidation (PA)	%	75	73	63	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	43	48	58	---
Sulfation (PA)	%	58	57	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	2.4	---
Silicon	ppm	10	15	42	---
Sodium	ppm	3	3	<1	---
Potassium	ppm	0	2	3	---

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	4	12	---
Copper	ppm	3	7	45	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	1	<1	1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	43	42	48	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	1	<1	2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1638	1693	1339	---
Magnesium	ppm	513	546	779	---
Zinc	ppm	888	976	1299	---
Phosphorus	ppm	782	797	1068	---
Barium	ppm	0	0	0	---
Boron	ppm	77	66	0	---

Depot: VP153549
Unique No: 11042521
Signed: Jonathan Hester
Report Date: 23 May 2024

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**VOLVO
PENTA**

GRAPHS

