

OIL ANALYSIS REPORT



MANCHESTER 50 RIGHT AG R8 12467M VOLVO PENTA 2013929999 - VARIABLE SPEED - STARBOARD DIESEL ENGINE

Sample No: VPA056673
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056673	VPA048400	---	---
Sample Date	15 Sep 2023	06 Oct 2022	---	---
Machine Hours	318	222	---	---
Oil Hours	96	222	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ATTENTION	ATTENTION	---	---

Power Products Systems LLC
 432 Warren Avenue, 432 Warren Ave.
 PORTLAND, ME
 US 04103
 Contact: Cody Clemens
 cclemens@powerprodsys.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 12.1	---	---
Base Number (BN)	mg KOH/g	■ 10.0	■ 10.9	---	---
Oxidation (PA)	%	71	62	---	---

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	44	55	---	---
Sulfation (PA)	%	57	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.9	---	---
Silicon	ppm	■ 8	■ 17	---	---
Sodium	ppm	■ 2	■ 0	---	---
Potassium	ppm	■ 2	■ 4	---	---

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	■ 11	---	---
Copper	ppm	■ 2	■ 9	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ 2	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 45	■ 60	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 1598	■ 1095	---	---
Magnesium	ppm	■ 610	■ 970	---	---
Zinc	ppm	■ 1001	■ 1293	---	---
Phosphorus	ppm	■ 817	■ 1057	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 60	■ 1	---	---

Depot: VP153549
Unique No: 10669746
Signed: Sean Felton
Report Date: 29 Sep 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

