

OIL ANALYSIS REPORT

VOLVO PENTA

MANCHESTER AIRPORT R812467M VOLVO PENTA 2013910480 - VARIABLE SPEED - CENTER DIESEL ENGINE

Sample No: VPA044885

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA044885	VPA026906	---	---
Sample Date	15 Sep 2023	07 Mar 2022	---	---
Machine Hours	630	372	---	---
Oil Hours	0	0	---	---
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	▲ 11.9	▲ 11.8	---	---
Base Number (BN)	mg KOH/g	■ 9.2	■ 8.6	---	---
Oxidation (PA)	%	■ 81	■ 82	---	---

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	■ 61	■ 71	---	---
Sulfation (PA)	%	■ 61	■ 64	---	---
Glycol	%	■ NEG	■ NEG	---	---
Fuel	%	■ <1.0	■ 0.7	---	---
Silicon	ppm	■ 10	■ 25	---	---
Sodium	ppm	■ 4	■ 2	---	---
Potassium	ppm	■ <1	■ 0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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	■ 6	■ 15	---	---
Copper	ppm	■ 34	▲ 125	---	---
Lead	ppm	■ <1	■ 3	---	---
Tin	ppm	■ 1	■ 2	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 46	■ 56	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 0	■ 0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 2	---	---
Vanadium	ppm	■ 0	■ 0	---	---

ADDITIVES

Calcium	ppm	■ 1686	■ 1166	---	---
Magnesium	ppm	■ 621	■ 1002	---	---
Zinc	ppm	■ 1008	■ 1185	---	---
Phosphorus	ppm	■ 810	■ 1029	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 50	■ 5	---	---

Depot: VP153549
Unique No: 10669743
Signed: Sean Felton
Report Date: 29 Sep 2023

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GRAPHS

