

OIL ANALYSIS REPORT

VOLVO PENTA

JASON MCKAY 7717342 VOLVO PENTA A1132484 - CENTER DIESEL ENGINE

Sample No: VPA036245

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA036245	VPA026054	---	---
Sample Date	13 Oct 2023	06 May 2022	---	---
Machine Hours	284	124	---	---
Oil Hours	0	124	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

pryan@pacificpowergroup.com

T: (253)520-5163

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 9.7	---	---
Oxidation (PA)	%	62	78	---	---

CONTAMINATION

Soot %	%	█ 0.6	█ 0.3	---	---
Nitration (PA)	%	54	47	---	---
Sulfation (PA)	%	56	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 13	█ 29	---	---
Sodium	ppm	█ 4	█ 3	---	---
Potassium	ppm	█ 0	█ 3	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 30	█ 30	---	---
Copper	ppm	█ 10	█ 14	---	---
Lead	ppm	█ 2	█ 5	---	---
Tin	ppm	█ 2	█ 4	---	---
Aluminum	ppm	█ 11	█ 26	---	---
Chromium	ppm	█ 3	█ 4	---	---
Molybdenum	ppm	█ 57	█ 38	---	---
Nickel	ppm	█ 4	█ 0	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1154	█ 1661	---	---
Magnesium	ppm	929	█ 485	---	---
Zinc	ppm	█ 1252	█ 1119	---	---
Phosphorus	ppm	█ 930	█ 948	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 12	█ 63	---	---

Depot: VP99031103

Unique No: 10711579

Signed: Sean Felton

Report Date: 27 Oct 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

