

OIL ANALYSIS REPORT



DEAN FALCONER 7720272 VOLVO PENTA 1012351051 - PORT DIESEL ENGINE

Sample No: VPA062982
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA062982	VPA045391	VPA028811	---
Sample Date	04 Jun 2024	02 Aug 2022	24 Feb 2021	---
Machine Hours	5378	5188	5038	---
Oil Hours	140	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	ABNORMAL	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	13.0	13.2	15.2	---
Base Number (BN)	mg KOH/g	9.3	11.3	---	---
Oxidation (PA)	%	67	68	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.6	0.2	---
Nitration (PA)	%	67	80	83	---
Sulfation (PA)	%	57	63	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	3	6	4	---
Sodium	ppm	12	▲ 47	10	---
Potassium	ppm	16	▲ 72	5	---

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	0	7	4	---
Copper	ppm	6	43	2	---
Lead	ppm	<1	1	0	---
Tin	ppm	0	1	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	58	50	10	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	0	<1	1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	<1	<1	---

ADDITIVES

Calcium	ppm	1167	1189	1329	---
Magnesium	ppm	1007	761	772	---
Zinc	ppm	1308	1143	871	---
Phosphorus	ppm	1091	928	731	---
Barium	ppm	0	<1	0	---
Boron	ppm	8	62	68	---

Depot: VP99031103
Unique No: 11076885
Signed: Don Baldrige
Report Date: 17 Jun 2024

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

