

OIL ANALYSIS REPORT



BARRY BARR 1610045 VOLVO PENTA 2071161445 - PORT DIESEL ENGINE

Sample No: VPA050744

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

SAMPLE INFORMATION

Sample Number	VPA050744	VPA047124	---	---
Sample Date	27 Mar 2024	11 Apr 2022	---	---
Machine Hours	0	1404	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Pacific Power Group - VP981534

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	---	---
Base Number (BN)	mg KOH/g	10.0	10.7	---	---
Oxidation (PA)	%	59	65	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.6	---	---
Nitration (PA)	%	58	67	---	---
Sulfation (PA)	%	54	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	0	2	---	---
Potassium	ppm	0	<1	---	---

WEAR METALS

Iron	ppm	6	11	---	---
Copper	ppm	13	22	---	---
Lead	ppm	2	4	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	58	53	---	---
Nickel	ppm	1	3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1041	1116	---	---
Magnesium	ppm	938	899	---	---
Zinc	ppm	1210	1160	---	---
Phosphorus	ppm	1030	1011	---	---
Barium	ppm	0	0	---	---
Boron	ppm	10	29	---	---

Depot: VP99031103

Unique No: 10981779

Signed: Doug Bogart

Report Date: 19 Apr 2024

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VOLVO PENTA

GRAPHS

