

OIL ANALYSIS REPORT

VOLVO PENTA

DEAR ABBY CS700548 - PORT DIESEL ENGINE

Sample No: VPA059976

Oil Type: CAT DIESEL ENGINE OIL 15W40

SAMPLE INFORMATION

Sample Number	VPA059976	VPA046302	VPA031324	---
Sample Date	03 Dec 2023	12 Jan 2023	20 Jan 2022	---
Machine Hours	502	370	298	---
Oil Hours	131	72	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 14.3	█ 16.4	---
Base Number (BN)	mg KOH/g	█ 10.5	█ 10.8	█ 12.6	---
Oxidation (PA)	%	77	41	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.9	█ 0.8	█ 2	---
Nitration (PA)	%	59	53	77	---
Sulfation (PA)	%	63	46	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 6	█ 8	---
Sodium	ppm	█ 7	█ 4	█ 7	---
Potassium	ppm	█ 0	█ 2	█ <1	---

WEAR METALS

Iron	ppm	█ 15	█ 14	█ 25	---
Copper	ppm	█ 7	█ 4	█ 8	---
Lead	ppm	█ 4	█ 3	█ 5	---
Tin	ppm	█ 0	█ <1	█ 1	---
Aluminum	ppm	█ 5	█ 2	█ 4	---
Chromium	ppm	█ <1	█ 1	█ 2	---
Molybdenum	ppm	█ 37	█ 5	█ 7	---
Nickel	ppm	█ <1	█ 1	█ 0	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	█ 0	█ <1	█ <1	---

ADDITIVES

Calcium	ppm	█ 1824	█ 1786	█ 2571	---
Magnesium	ppm	█ 578	█ 1091	█ 323	---
Zinc	ppm	█ 1299	█ 1435	█ 1447	---
Phosphorus	ppm	█ 1024	█ 1146	█ 1158	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 33	█ 4	█ 6	---

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Diagnosis

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

Depot: VP592286

Unique No: 10767902

Signed: Sean Felton

Report Date: 05 Dec 2023

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GRAPHS

