

OIL ANALYSIS REPORT

**VOLVO
PENTA**

CATERPILLAR RPM00152 - PORT DIESEL ENGINE

Sample No: VPA060382

Oil Type: CAT DIESEL ENGINE OIL 15W40

SAMPLE INFORMATION

Sample Number	VPA060382	---	---	---
Sample Date	13 Oct 2023	---	---	---
Machine Hours	164	---	---	---
Oil Hours	164	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	78	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 44	---	---	---
Sodium	ppm	█ 40	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 33	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1752	---	---	---
Magnesium	ppm	█ 486	---	---	---
Zinc	ppm	█ 956	---	---	---
Phosphorus	ppm	█ 750	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 56	---	---	---

SMART DIESEL SERVICE

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F:

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

Depot: VPSMAPLA

Unique No: 10702585

Signed: Sean Felton

Report Date: 24 Oct 2023

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GRAPHS

