

OIL ANALYSIS REPORT

VOLVO PENTA

CUMMINS 73881756 - PORT DIESEL ENGINE

Sample No: VPA059997

Oil Type: VALVOLINE PREMIUM BLUE 2000 15W40

SAMPLE INFORMATION

Sample Number	VPA059997	---	---	---
Sample Date	18 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	120	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	84	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	92	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 56	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	▲ 102	---	---	---
Copper	ppm	█ 58	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 212	---	---	---
Chromium	ppm	▲ 38	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1298	---	---	---
Magnesium	ppm	█ 817	---	---	---
Zinc	ppm	█ 916	---	---	---
Phosphorus	ppm	█ 703	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 30	---	---	---

SMART DIESEL SERVICE

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Diagnosis

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VPSMAPLA
Unique No: 10939500
Signed: Jonathan Hester
Report Date: 22 Mar 2024

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GRAPHS

