

OIL ANALYSIS REPORT

VOLVO PENTA

CATALYST VOLVO PENTA 2006016833 - STARBOARD DIESEL ENGINE

Sample No: VPA049961
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA049961	---	---	---
Sample Date	14 Sep 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 15.3	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	71	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 9	---	---	---

WEAR METALS

Iron	ppm	█ 69	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 37	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2283	---	---	---
Magnesium	ppm	█ 25	---	---	---
Zinc	ppm	█ 1297	---	---	---
Phosphorus	ppm	█ 1015	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 183	---	---	---

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Diagnosis

We recommend an early resample to monitor this condition. Please note that this is a corrected copy for diagnostic comment updates. The aluminum level is abnormal. All other 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 suitable for further service.

Depot: VP694356
Unique No: 10649114
Signed: Doug Bogart
Report Date: 21 Sep 2023

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GRAPHS

