

OIL ANALYSIS REPORT

VOLVO PENTA

LOU BRITO 205604 VOLVO PENTA 2003011856 - PORT DIESEL ENGINE

Sample No: VPA062006

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA062006	VPA041464	---	---
Sample Date	20 May 2024	10 Apr 2023	---	---
Machine Hours	1415	1407	---	---
Oil Hours	41	50	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 14.4	---	---
Base Number (BN)	mg KOH/g	█ 11.0	█ 7.6	---	---
Oxidation (PA)	%	57	58	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	52	58	---	---
Sulfation (PA)	%	49	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 15	▲ 27	---	---
Sodium	ppm	█ 13	█ 29	---	---
Potassium	ppm	█ 2	█ 1	---	---

WEAR METALS

Iron	ppm	▲ 103	▲ 194	---	---
Copper	ppm	█ 13	█ 40	---	---
Lead	ppm	█ 1	█ 0	---	---
Tin	ppm	█ 1	█ 0	---	---
Aluminum	ppm	▲ 40	▲ 120	---	---
Chromium	ppm	▲ 7	▲ 10	---	---
Molybdenum	ppm	█ 66	█ 65	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	█ 1	█ 4	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 1	█ 2	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1198	█ 1273	---	---
Magnesium	ppm	999	█ 768	---	---
Zinc	ppm	█ 1292	█ 1267	---	---
Phosphorus	ppm	█ 1084	█ 1026	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 25	99	---	---

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Diagnosis

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

Depot: VP152133
Unique No: 11046633
Signed: Sean Felton
Report Date: 29 May 2024

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GRAPHS

