

OIL ANALYSIS REPORT

VOLVO PENTA

AHAB VOLVO PENTA VOLVO PENTA - AHAB (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA039738

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA039738	---	---	---
Sample Date	02 Aug 2023	---	---	---
Machine Hours	200	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FDDA TAMPA

TAMPA, FL

US

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	78	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 acceptable for the time in service.

CONTAMINATION

Soot %	%	█ 1.3	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 25	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 47	---	---	---
Copper	ppm	█ 20	---	---	---
Lead	ppm	█ 14	---	---	---
Tin	ppm	█ 5	---	---	---
Aluminum	ppm	█ 54	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 42	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1689	---	---	---
Magnesium	ppm	█ 553	---	---	---
Zinc	ppm	█ 1211	---	---	---
Phosphorus	ppm	█ 972	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 33	---	---	---

Depot: VP208641

Unique No: 10605776

Signed: Don Baldrige

Report Date: 17 Aug 2023

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GRAPHS

