

OIL ANALYSIS REPORT

VOLVO PENTA

HALL PASS 3869332 - CENTER GASOLINE ENGINE

Sample No: VPA047835
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA047835	VPA043783	---	---
Sample Date	30 Nov 2023	28 Dec 2021	---	---
Machine Hours	403	345	---	---
Oil Hours	403	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 9.4	■ 11.2	---	---
Base Number (BN)	mg KOH/g	■ 7.1	■ 8.0	---	---
Oxidation (PA)	%	11	11	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	7	8	---	---
Sulfation (PA)	%	10	11	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 2.4	<1.0	---	---
Silicon	ppm	▲ 90	■ 11	---	---
Sodium	ppm	■ 15	■ 9	---	---
Potassium	ppm	■ 21	■ <1	---	---

WEAR METALS

Iron	ppm	■ 65	■ 26	---	---
Copper	ppm	■ 38	■ 86	---	---
Lead	ppm	■ 2	■ 1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ 8	■ 3	---	---
Chromium	ppm	■ 3	■ 1	---	---
Molybdenum	ppm	270	74	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	2	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1266	1965	---	---
Magnesium	ppm	440	155	---	---
Zinc	ppm	768	834	---	---
Phosphorus	ppm	628	703	---	---
Barium	ppm	6	0	---	---
Boron	ppm	101	3	---	---

The Talaria Company

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Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP592286
Unique No: 10778829
Signed: Jonathan Hester
Report Date: 18 Dec 2023

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GRAPHS

