

OIL ANALYSIS REPORT

VOLVO PENTA

20334572 - INBOARD - STARBOARD GEARBOX

Sample No: VPA036627

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA036627	VPA033427	VPA031410	---
Sample Date	03 Nov 2023	15 Mar 2022	16 Jul 2021	---
Machine Hours	160	121	95	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	■ 92.05	■ 93.0	■ 86.5	---
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CONTAMINATION

Silicon	ppm	■ 4	■ 3	■ 5	---
Sodium	ppm	■ 0	■ 2	■ 4	---
Potassium	ppm	■ 2	■ 0	■ 0	---

WEAR METALS

PQ		■ 26	■ 20	25	---
Iron	ppm	■ 27	■ 10	■ 14	---
Copper	ppm	■ 137	■ 35	■ 90	---
Lead	ppm	■ 1	■ 1	■ 2	---
Tin	ppm	■ <1	■ <1	■ 2	---
Aluminum	ppm	■ 2	■ 1	■ 2	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 120	■ 111	109	---
Nickel	ppm	■ 1	0	0	---
Titanium	ppm	■ <1	■ 0	0	---
Silver	ppm	0	2	<1	---
Manganese	ppm	■ 1	■ <1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	■ 2663	■ 2799	2591	---
Magnesium	ppm	■ 49	■ 50	158	---
Zinc	ppm	■ 1193	■ 1239	1256	---
Phosphorus	ppm	■ 1155	■ 1090	1114	---
Barium	ppm	■ 5	■ 0	0	---
Boron	ppm	■ 3	■ 5	11	---

ADVANCED DIESEL

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPADVNPAP
Unique No: 10729234
Signed: Doug Bogart
Report Date: 07 Nov 2023

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GRAPHS

