

OIL ANALYSIS REPORT



LACHMAN VOLVO PENTA 3950001942 - STARBOARD IPS

Sample No: VPA021442

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA021442	VPA045841	VPA038141	---
Sample Date	16 May 2024	06 Sep 2023	03 Jan 2023	---
Machine Hours	718	582	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
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T:
F:

OIL CONDITION

Visc @ 40°C	cSt	█ 104	104	105	---
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CONTAMINATION

Water	%	█ 0.184	NEG	NEG	---
Silicon	ppm	<1	3	3	---
Sodium	ppm	█ <1	█ 5	█ 5	---
Potassium	ppm	█ 0	█ 1	█ 1	---

Diagnosis

No corrective action is recommended at this time. 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. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 17	█ 22	█ 17	---
Iron	ppm	█ 14	█ 51	█ 45	---
Copper	ppm	<1	7	6	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	2	2	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 0	█ 0	█ <1	---
Nickel	ppm	█ 0	█ <1	█ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	3	0	0	---
Manganese	ppm	█ <1	█ 2	█ 2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 7	█ 11	█ 11	---
Magnesium	ppm	█ 2	█ 17	█ 17	---
Zinc	ppm	█ 8	█ 26	█ 15	---
Phosphorus	ppm	█ 1304	█ 1402	█ 1338	---
Barium	ppm	█ <1	█ 0	█ 0	---
Boron	ppm	█ 326	█ 329	█ 295	---

Depot: VP153685
Unique No: 11036214
Signed: Sean Felton
Report Date: 20 May 2024

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**VOLVO
PENTA**

GRAPHS

