

OIL ANALYSIS REPORT

VOLVO PENTA

GLANELL VOLVO PENTA 3950002175 - STARBOARD IPS

Sample No: VPA036923

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA036923	VPA046474	VPA048395	---
Sample Date	04 Dec 2023	07 Jun 2023	05 Jul 2022	---
Machine Hours	710	1067	797	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	ABNORMAL	NORMAL	ATTENTION	---

FULL KEEL MARINE SERVICES
 314 LEGION AVE
 ANNAPOLIS, MD
 US 21401
 Contact: Service Manager
 FULLKEELMARINESERIVES@GMAIL.COM
 T: (410)507-3542
 F:

OIL CONDITION

Visc @ 40°C	cSt	█ 105	102	█ 102	---
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CONTAMINATION

Water	%	▲ 0.368	NEG	NEG	---
Silicon	ppm	█ 23	<1	9	---
Sodium	ppm	█ 22	█ 2	█ <1	---
Potassium	ppm	█ 11	█ 2	█ 6	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 22	█ 36	█ 119	---
Iron	ppm	▲ 347	█ 105	▲ 286	---
Copper	ppm	█ 30	4	10	---
Lead	ppm	0	0	8	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	6	2	9	---
Chromium	ppm	█ 2	█ 1	█ 4	---
Molybdenum	ppm	█ <1	█ <1	█ 0	---
Nickel	ppm	█ 3	█ <1	█ 0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	█ 8	█ 2	█ 5	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	█ 13	█ 4	█ 12	---
Magnesium	ppm	█ 17	█ 0	█ 5	---
Zinc	ppm	█ 67	█ 0	█ 12	---
Phosphorus	ppm	█ 1347	█ 1384	█ 1304	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 221	█ 305	█ 320	---

Depot: VP1298996
 Unique No: 10778717
 Signed: Don Baldrige
 Report Date: 11 Dec 2023

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GRAPHS

