

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URCIUOLI VOLVO PENTA 3950004626 - STARBOARD IPS

Sample No: VPA049685
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA049685	VPA056010	---	---
Sample Date	04 Dec 2023	13 Jul 2023	---	---
Machine Hours	2859	1960	---	---
Oil Hours	2859	400	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

Helmut's Marine Service
619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URCIUOLI
SERVICE@HELMUTSMARINE.COM
T: x:
F: x:

OIL CONDITION

Visc @ 40°C	cSt	█ 103	95.51	---	---
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CONTAMINATION

Water	%	█ 0.142	NEG	---	---
Silicon	ppm	█ 1	6	---	---
Sodium	ppm	█ 3	█ 26	---	---
Potassium	ppm	█ 0	█ 5	---	---

Diagnosis

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.

WEAR METALS

PQ		█ 11	█ 39	---	---
Iron	ppm	█ 41	▲ 208	---	---
Copper	ppm	█ 5	█ 22	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	2	█ 11	---	---
Chromium	ppm	█ 0	█ 1	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ 7	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 66	█ 23	---	---
Magnesium	ppm	█ 10	█ 121	---	---
Zinc	ppm	█ 14	█ 44	---	---
Phosphorus	ppm	█ 1460	█ 1420	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 309	█ 244	---	---

Depot: VP152741
Unique No: 10782299
Signed: Don Baldrige
Report Date: 15 Dec 2023

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GRAPHS

