

OIL ANALYSIS REPORT

VOLVO PENTA

BERT OTTERSON VOLVO PENTA 3940022710 - STARBOARD IPS

Sample No: VPA052306
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA052306	---	---	---
Sample Date	13 Feb 2024	---	---	---
Machine Hours	228	---	---	---
Oil Hours	228	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Helmuts Marine Service
619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URUIOLI
SERVICE@HELMUTSMARINE.COM
T: x:
F: x:

OIL CONDITION

Visc @ 40°C	cSt	█ 108	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---

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.

WEAR METALS

PQ		█ 16	---	---	---
Iron	ppm	█ 6	---	---	---
Copper	ppm	0	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 5	---	---	---
Magnesium	ppm	█ 11	---	---	---
Zinc	ppm	█ 0	---	---	---
Phosphorus	ppm	█ 1318	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 297	---	---	---

Depot: VP152741
Unique No: 10887345
Signed: Sean Felton
Report Date: 22 Feb 2024

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GRAPHS

