

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URUIOLI JUSTIN SILVERS VOLVO PENTA 3940019916 - STARBOARD IPS

Sample No: VPA057148

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA057148	---	---	---
Sample Date	24 May 2024	---	---	---
Machine Hours	357	---	---	---
Oil Hours	357	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

Helmut's 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	█ 106	---	---	---
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CONTAMINATION

Water	%	█ 0.395	---	---	---
Silicon	ppm	▲ 14	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ <1	---	---	---

WEAR METALS

PQ		█ 25	---	---	---
Iron	ppm	▲ 236	---	---	---
Copper	ppm	▲ 19	---	---	---
Lead	ppm	▲ 0	---	---	---
Tin	ppm	▲ 0	---	---	---
Aluminum	ppm	▲ 1	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	▲ 0	---	---	---
Silver	ppm	▲ 0	---	---	---
Manganese	ppm	█ 6	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 9	---	---	---
Magnesium	ppm	█ 60	---	---	---
Zinc	ppm	█ 40	---	---	---
Phosphorus	ppm	█ 1302	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 236	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other 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.

Depot: VP152741

Unique No: 11058173

Signed: Sean Felton

Report Date: 03 Jun 2024

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GRAPHS

