

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE UCIUOLI HOKU-2300503 VOLVO PENTA 3940026133 - STARBOARD IPS

Sample No: VPA049575

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA049575	VPA034445	---	---
Sample Date	28 Sep 2023	25 Jun 2021	---	---
Machine Hours	230	136	---	---
Oil Hours	230	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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	110	■ 107	---	---
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CONTAMINATION

Silicon	ppm	8	5	---	---
Sodium	ppm	■ 0	■ <1	---	---
Potassium	ppm	■ 3	■ 2	---	---

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		■ 18	■ 20	---	---
Iron	ppm	■ 46	■ 56	---	---
Copper	ppm	4	9	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ <1	■ 2	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 1	■ 3	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 4	■ 55	---	---
Magnesium	ppm	■ 3	75	---	---
Zinc	ppm	■ 7	■ 11	---	---
Phosphorus	ppm	■ 1363	■ 1353	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 325	■ 378	---	---

Depot: VP152741

Unique No: 10686290

Signed: Don Baldrige

Report Date: 12 Oct 2023

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GRAPHS

