

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE UCIUOLI SANDRA WILSON VOLVO PENTA 3950002248 - STARBOARD IPS

Sample No: VPA059962

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA059962	VPA022616	---	---
Sample Date	21 Dec 2023	25 Jun 2019	---	---
Machine Hours	678	536	---	---
Oil Hours	678	0	---	---
Oil Changed	Changed	Not Changd	---	---
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	█ 103	104	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	2	3	---	---
Sodium	ppm	█ 0	█ <1	---	---
Potassium	ppm	█ 0	█ 17	---	---

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		█ 16	█ 21	---	---
Iron	ppm	█ 22	█ 30	---	---
Copper	ppm	<1	2	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 0	█ <1	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ 1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	9	█ 8	---	---
Magnesium	ppm	1	█ 12	---	---
Zinc	ppm	█ 0	█ 5	---	---
Phosphorus	ppm	█ 1341	█ 1258	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 326	█ 276	---	---

Depot: VP152741

Unique No: 10808664

Signed: Don Baldrige

Report Date: 02 Jan 2024

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GRAPHS

