

OIL ANALYSIS REPORT



NADINE URUIOLI SAM MUIR VOLVO PENTA 3950007258 - STARBOARD IPS

Sample No: VPA061549

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA061549	VPA057135	VPA060767	---
Sample Date	21 Jun 2024	15 May 2024	25 Mar 2024	---
Machine Hours	290	274	274	---
Oil Hours	290	274	274	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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	104	103	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	3	3	6	---
Sodium	ppm	8	4	17	---
Potassium	ppm	4	0	3	---

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		14	15	15	---
Iron	ppm	18	16	94	---
Copper	ppm	3	<1	12	---
Lead	ppm	0	<1	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	<1	6	---
Chromium	ppm	0	0	1	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	1	0	1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	1	6	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	2	0	12	---
Magnesium	ppm	2	0	11	---
Zinc	ppm	8	11	117	---
Phosphorus	ppm	1436	1386	1380	---
Barium	ppm	0	0	0	---
Boron	ppm	282	328	227	---

Depot: VP152741

Unique No: 11101978

Signed: Don Baldrige

Report Date: 01 Jul 2024

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**VOLVO
PENTA**

GRAPHS

