

OIL ANALYSIS REPORT



BILL YATES 506053 VOLVO PENTA 3950002005 - STARBOARD IPS

Sample No: VPA048784
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048784	VPA035459	VPA031688	---
Sample Date	15 Mar 2024	03 Feb 2022	03 Nov 2020	---
Machine Hours	192	174	159	---
Oil Hours	26	0	31	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	105	106	105	---
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CONTAMINATION

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

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		12	16	18	---
Iron	ppm	12	12	13	---
Copper	ppm	4	3	2	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	2	1	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	<1	<1	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	12	27	8	---
Magnesium	ppm	25	18	5	---
Zinc	ppm	2	9	0	---
Phosphorus	ppm	1205	1520	1356	---
Barium	ppm	0	0	0	---
Boron	ppm	308	342	343	---

Depot: VP297371
Unique No: 10938139
Signed: Don Baldrige
Report Date: 22 Mar 2024

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GRAPHS

