

OIL ANALYSIS REPORT



VOLVO PENTA 3950004168 - PORT IPS

Sample No: VPA020824
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA020824	VPA020709	VPA020715	---
Sample Date	31 Jan 2024	13 Nov 2023	22 Aug 2023	---
Machine Hours	6956	6479	6000	---
Oil Hours	477	443	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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 CHARLESTON, SC
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OIL CONDITION

Visc @ 40°C	cSt	103	102	102	---
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CONTAMINATION

Water	%	NEG	▲ 0.236	NEG	---
Silicon	ppm	<1	<1	2	---
Sodium	ppm	4	2	7	---
Potassium	ppm	2	3	6	---

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		15	16	38	---
Iron	ppm	42	88	▲ 272	---
Copper	ppm	7	9	8	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	2	1	5	---
Chromium	ppm	<1	<1	2	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	<1	<1	3	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	4	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	0	3	3	---
Magnesium	ppm	0	8	28	---
Zinc	ppm	0	0	<1	---
Phosphorus	ppm	1425	1283	1374	---
Barium	ppm	0	<1	0	---
Boron	ppm	372	330	349	---

Depot: VPCHACHA
Unique No: 10861428
Signed: Jonathan Hester
Report Date: 06 Feb 2024

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**VOLVO
PENTA**

GRAPHS

