

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 3950004168 - PORT IPS

Sample No: VPA020172

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA020172	VPA020824	VPA020709	VPA020715
Sample Date	20 May 2024	31 Jan 2024	13 Nov 2023	22 Aug 2023
Machine Hours	7496	6956	6479	6000
Oil Hours	540	477	443	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

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

Water	%	NEG	NEG	▲ 0.236	NEG
Silicon	ppm	█ 0	<1	<1	2
Sodium	ppm	█ 5	█ 4	█ 2	█ 7
Potassium	ppm	█ 2	█ 2	█ 3	█ 6

Diagnosis

No corrective action is recommended at this time. 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		█ 19	█ 15	█ 16	█ 38
Iron	ppm	█ 36	█ 42	█ 88	▲ 272
Copper	ppm	█ 8	7	9	8
Lead	ppm	█ <1	0	0	0
Tin	ppm	█ <1	<1	0	0
Aluminum	ppm	█ 2	2	1	5
Chromium	ppm	█ <1	█ <1	█ <1	█ 2
Molybdenum	ppm	█ <1	█ 0	█ 0	█ <1
Nickel	ppm	█ <1	█ <1	█ <1	█ 3
Titanium	ppm	█ <1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	█ <1	█ <1	█ 1	█ 4
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	█ 0	█ 0	█ 3	█ 3
Magnesium	ppm	█ 2	█ 0	█ 8	█ 28
Zinc	ppm	█ 6	█ 0	█ 0	█ <1
Phosphorus	ppm	█ 1426	█ 1425	█ 1283	█ 1374
Barium	ppm	█ 0	█ 0	█ <1	█ 0
Boron	ppm	█ 351	█ 372	█ 330	█ 349

Depot: VPCHACHA
Unique No: 11060486
Signed: Sean Felton
Report Date: 05 Jun 2024

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PENTA**

GRAPHS

