

OIL ANALYSIS REPORT

VOLVO PENTA

GREG GARTRELL GEOFF VOLVO PENTA 3940017734 - STARBOARD IPS

Sample No: VPA045932

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045932	VPA029923	VPA038687	---
Sample Date	27 Jun 2023	19 Apr 2022	07 Jul 2021	---
Machine Hours	0	724	628	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 110	█ 107	█ 105	---
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CONTAMINATION

Silicon	ppm	█ 10	█ 10	█ 13	---
Sodium	ppm	█ 2	█ 5	█ 8	---
Potassium	ppm	█ <1	█ 2	█ <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		█ 21	█ 24	█ 50	---
Iron	ppm	█ 46	█ 103	▲ 237	---
Copper	ppm	█ 6	█ 10	█ 17	---
Lead	ppm	█ 0	<1	<1	---
Tin	ppm	█ 0	0	0	---
Aluminum	ppm	<1	2	0	---
Chromium	ppm	█ <1	█ 1	█ 2	---
Molybdenum	ppm	█ <1	█ <1	█ <1	---
Nickel	ppm	█ 0	█ 0	█ 2	---
Titanium	ppm	█ 0	0	0	---
Silver	ppm	█ 0	<1	0	---
Manganese	ppm	█ <1	█ 2	█ 3	---
Vanadium	ppm	█ 0	0	0	---

ADDITIVES

Calcium	ppm	█ 3	█ 3	█ 10	---
Magnesium	ppm	█ 6	█ 11	█ 27	---
Zinc	ppm	█ 5	█ 9	█ 16	---
Phosphorus	ppm	█ 1370	█ 1273	█ 1398	---
Barium	ppm	█ 2	█ 0	█ 0	---
Boron	ppm	█ 370	█ 329	█ 339	---

Depot: VP794951
Unique No: 10547401
Signed: Doug Bogart
Report Date: 07 Jul 2023

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GRAPHS

