

OIL ANALYSIS REPORT

VOLVO PENTA

PAUL QUELCH 3901 VOLVO PENTA 3200005682 - STARBOARD IPS

Sample No: VPA054997

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA054997	---	---	---
Sample Date	01 May 2024	---	---	---
Machine Hours	300	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

WESTERN BRANCH DIESEL

6881 BULLDOG DR N

CHARLESTON, SC

US 29406

Contact: MICHAEL JORDAN

mdjordan@wbdiesel.com

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OIL CONDITION

Visc @ 40°C	cSt	█ 104	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	2	---	---	---
Sodium	ppm	█ 33	---	---	---
Potassium	ppm	█ 4	---	---	---

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		█ 18	---	---	---
Iron	ppm	█ 26	---	---	---
Copper	ppm	7	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 20	---	---	---
Magnesium	ppm	█ 11	---	---	---
Zinc	ppm	█ 12	---	---	---
Phosphorus	ppm	█ 1481	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 331	---	---	---

Depot: VP1165983

Unique No: 11009448

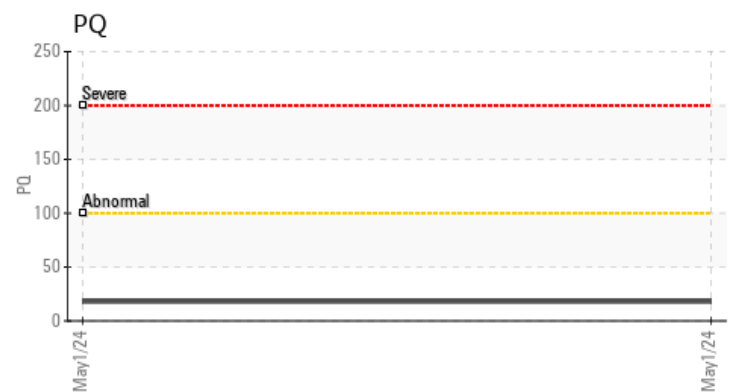
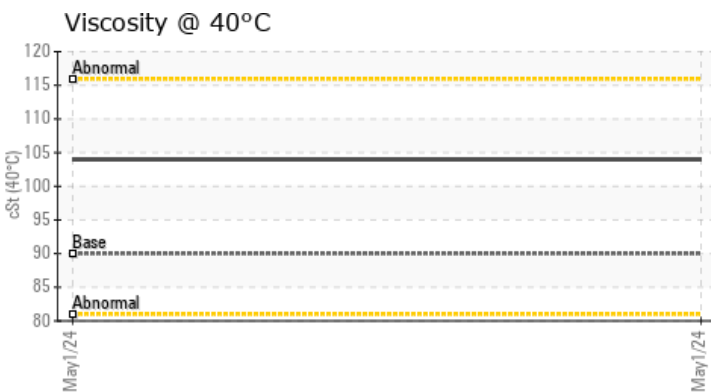
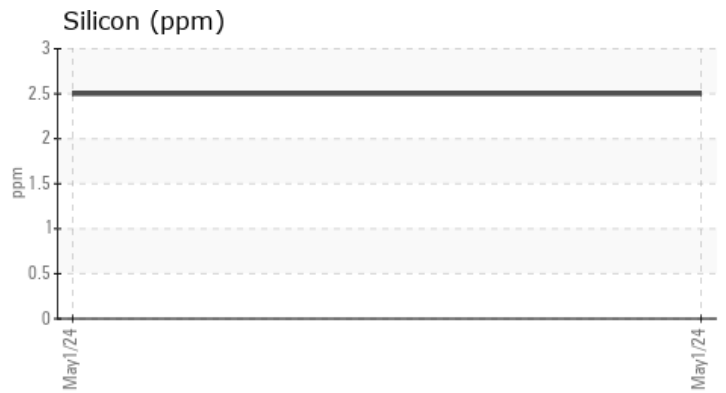
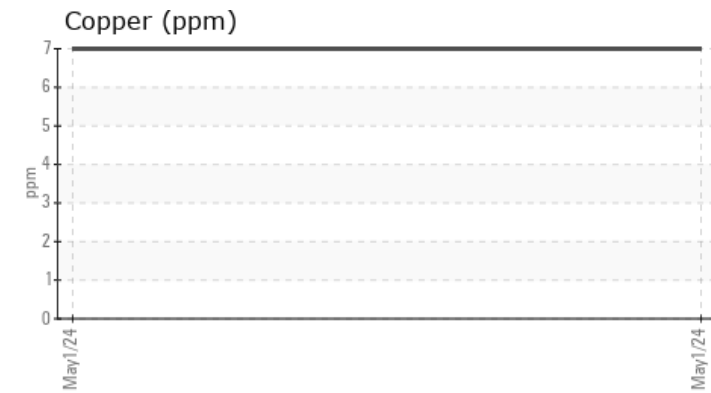
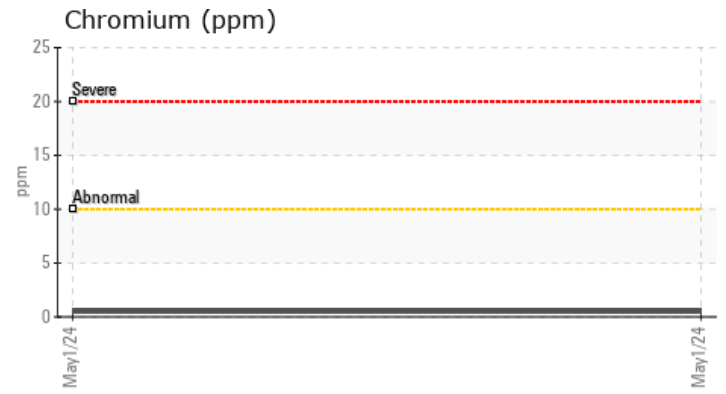
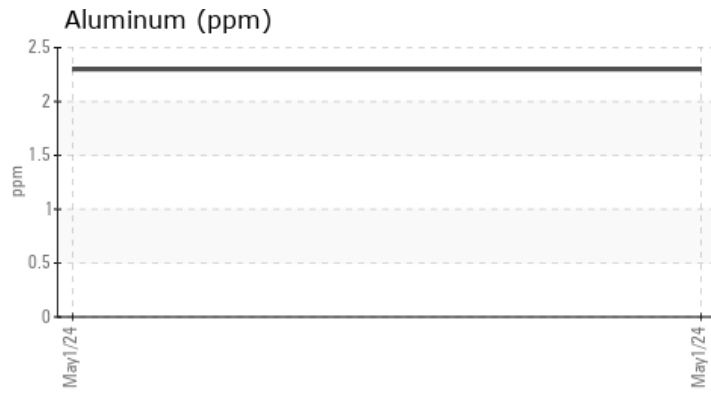
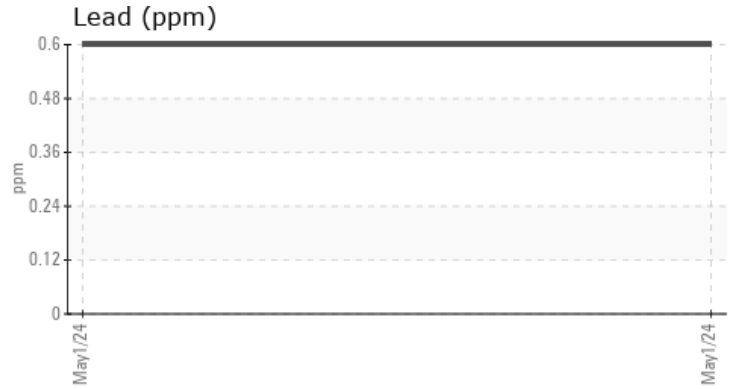
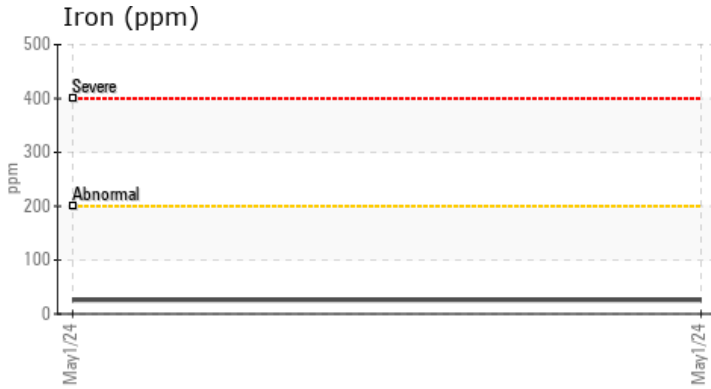
Signed: Jonathan Hester

Report Date: 08 May 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS



OIL ANALYSIS REPORT

VOLVO PENTA

PAUL QUELCH 3901 VOLVO PENTA 3200005682 - PORT IPS

Sample No: VPA054863

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA054863	---	---	---
Sample Date	01 May 2024	---	---	---
Machine Hours	300	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 212	---	---	---
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CONTAMINATION

Water	%	▲ 25.6	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	● 1747	---	---	---
Potassium	ppm	■ 80	---	---	---

WEAR METALS

PQ		■ 43	---	---	---
Iron	ppm	■ 101	---	---	---
Copper	ppm	■ 15	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	7	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 1	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	202	---	---	---
Magnesium	ppm	■ 251	---	---	---
Zinc	ppm	■ 50	---	---	---
Phosphorus	ppm	■ 1159	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 260	---	---	---

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Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP1165983
Unique No: 11009447
Signed: Jonathan Hester
Report Date: 08 May 2024

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GRAPHS

