

OIL ANALYSIS REPORT

VOLVO PENTA

ED OELTJEN DANIEL/502899 VOLVO PENTA A460783 - STERNDRIVE - STARBOARD GEARBOX

Sample No: VPA061876

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA061876	VPA055425	---	---
Sample Date	15 Apr 2024	27 Mar 2023	---	---
Machine Hours	727	677	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ATTENTION	SEVERE	---	---

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4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 40°C	cSt	█ 107	█ 111	---	---
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CONTAMINATION

Water	%	NEG	▲ 2.70	---	---
Silicon	ppm	█ 4	█ 9	---	---
Sodium	ppm	█ 3	█ 10	---	---
Potassium	ppm	█ 3	█ 1	---	---

WEAR METALS

PQ		█ 36	█ 25	---	---
Iron	ppm	█ 74	▲ 451	---	---
Copper	ppm	█ 1	█ 4	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	● 13	▲ 24	---	---
Chromium	ppm	█ 2	█ 6	---	---
Molybdenum	ppm	█ 0	<1	---	---
Nickel	ppm	█ 12	█ 8	---	---
Titanium	ppm	2	1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	█ 2	6	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 2	31	---	---
Magnesium	ppm	█ 2	16	---	---
Zinc	ppm	█ 12	56	---	---
Phosphorus	ppm	█ 1369	1465	---	---
Barium	ppm	█ 0	0	---	---
Boron	ppm	█ 346	300	---	---

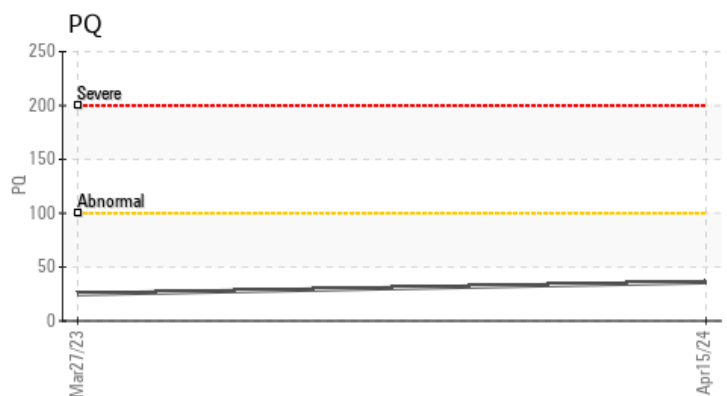
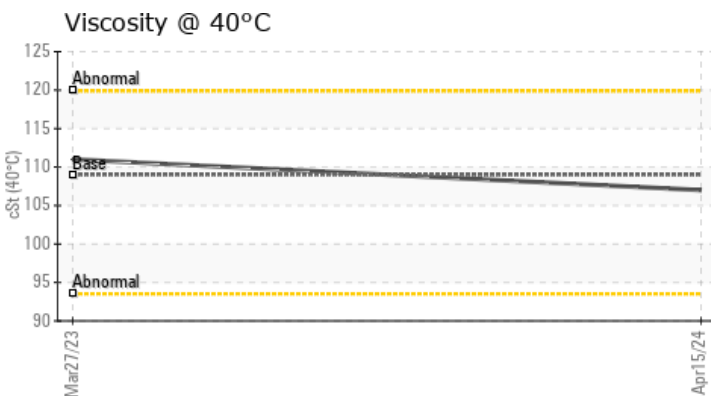
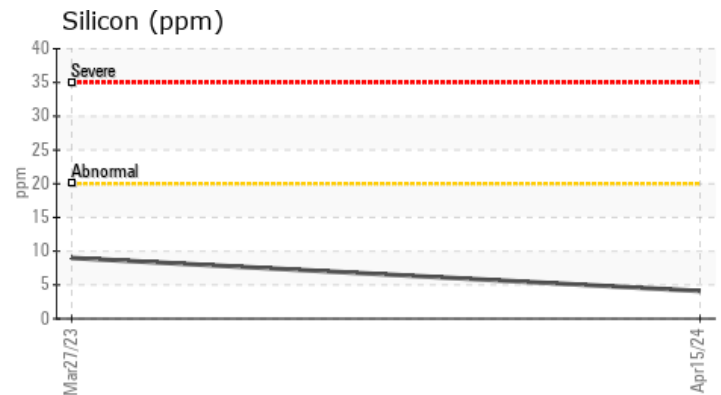
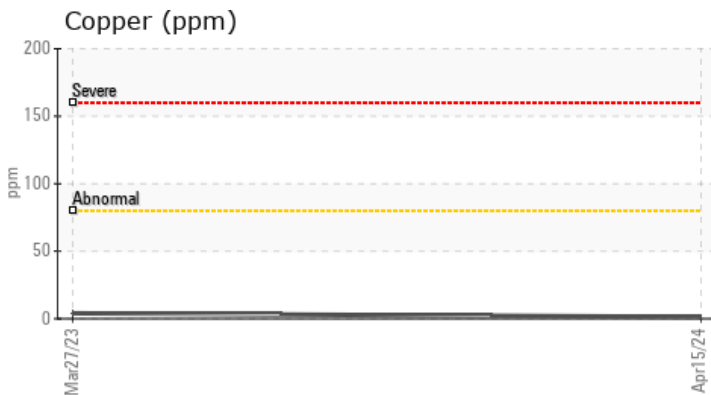
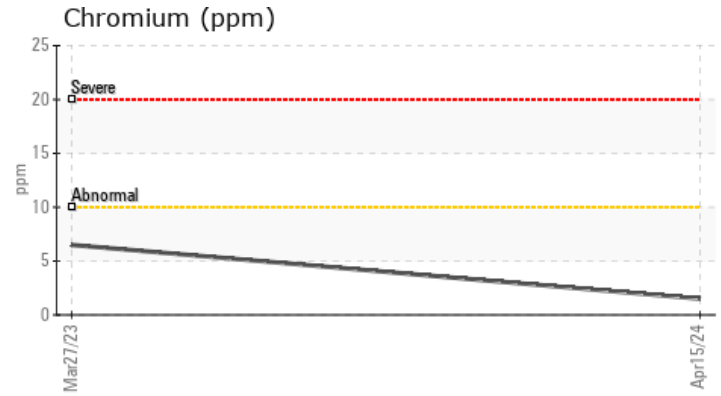
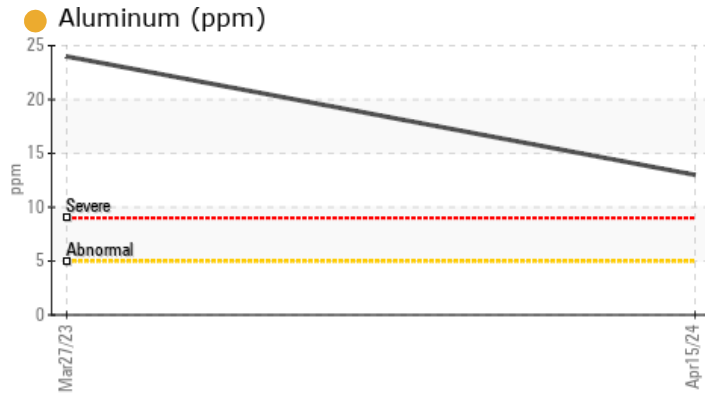
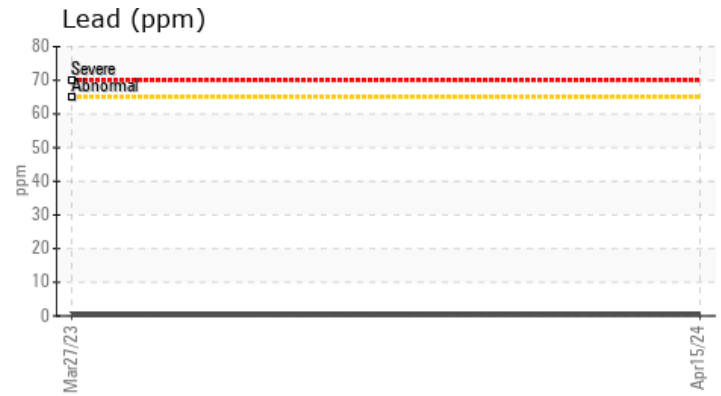
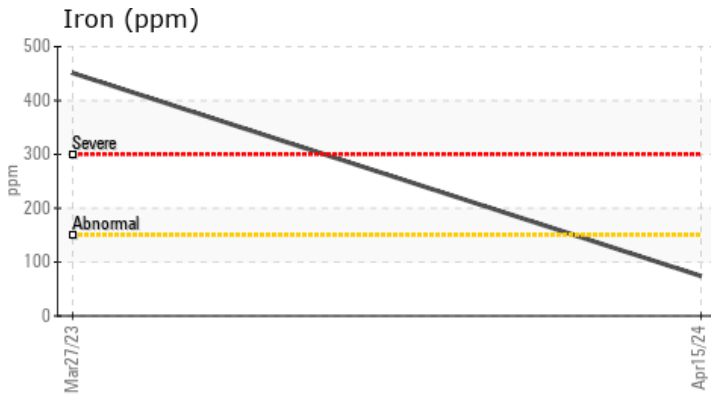
Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP794951
Unique No: 10990210
Signed: Don Baldrige
Report Date: 23 Apr 2024

OIL ANALYSIS REPORT

GRAPHS



OIL ANALYSIS REPORT

VOLVO PENTA

ED OELTJEN 500984 VOLVO PENTA A460783 - STERNDRIVE - PORT IPS

Sample No: VPA048248

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048248	---	---	---
Sample Date	29 Mar 2022	---	---	---
Machine Hours	617	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

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

Water	%	▲ 1.63	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 13	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

PQ		■ 20	---	---	---
Iron	ppm	● 397	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 23	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 6	---	---	---
Titanium	ppm	■ 2	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ 5	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 14	---	---	---
Magnesium	ppm	■ 3	---	---	---
Zinc	ppm	■ 15	---	---	---
Phosphorus	ppm	■ 1366	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 316	---	---	---

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. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP794951
Unique No: 9917068
Signed: Don Baldrige
Report Date: 02 Apr 2022

OIL ANALYSIS REPORT

GRAPHS

