



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
NORMAL
NORMAL

Area

ED OELTJEN [DANIEL/502899]

Machine Id

VOLVO PENTA A460783 - STERNDRIVE

Component

Starboard Gearbox

Fluid

GEAR OIL SAE 75W90 (--- QTS)

RECOMMENDATION

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.

WEAR

The aluminum level is abnormal.

CONTAMINATION

The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

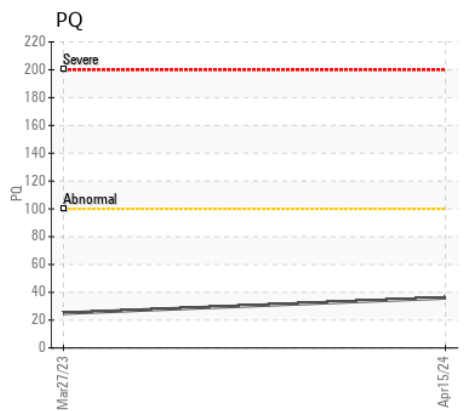
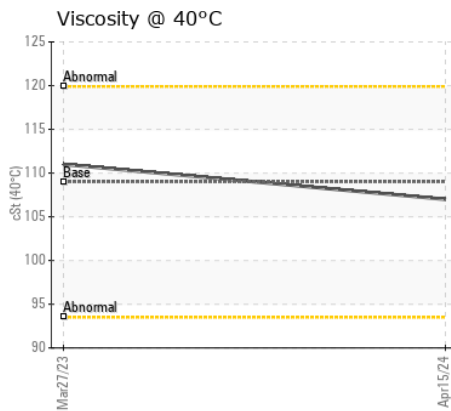
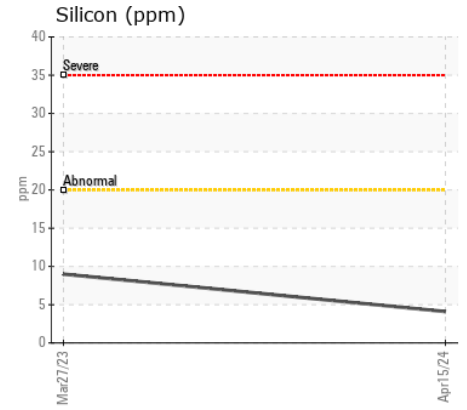
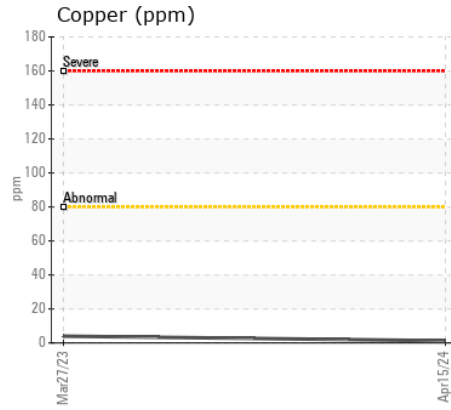
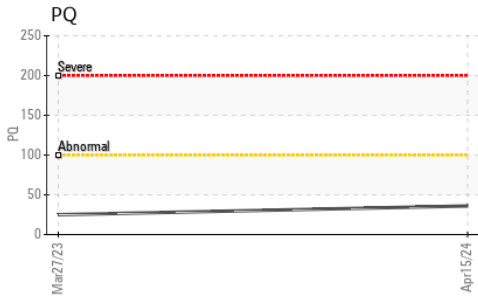
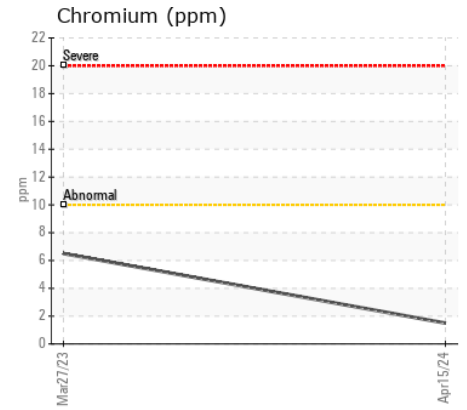
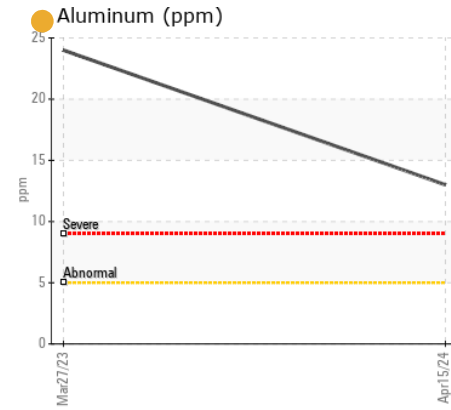
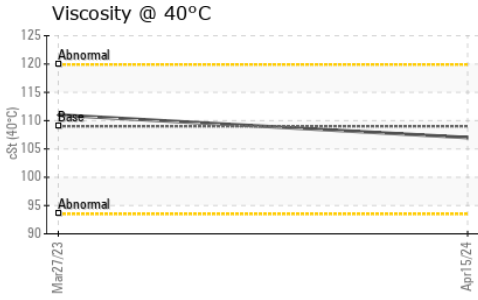
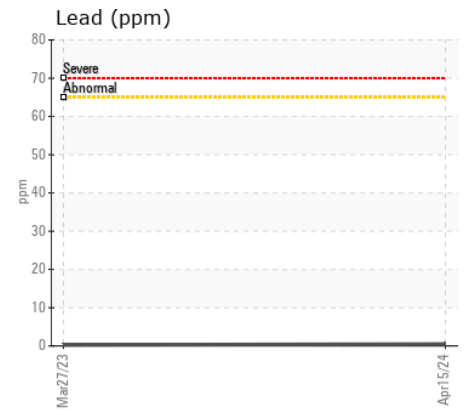
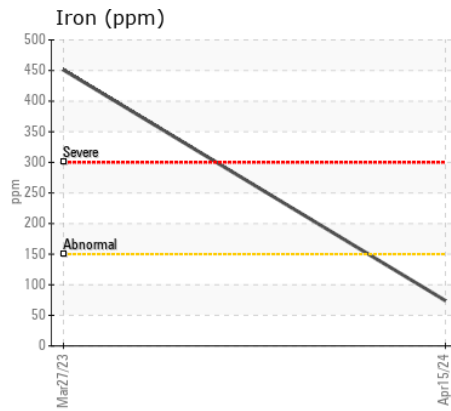
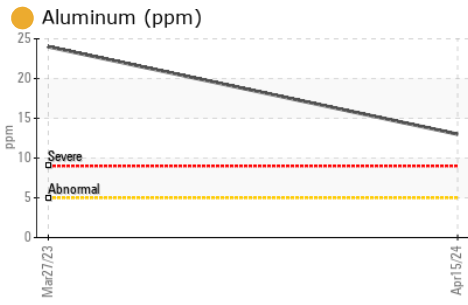
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA061876	VPA055425	---
Sample Date		Client Info		15 Apr 2024	27 Mar 2023	---
Machine Age	hrs	Client Info		727	677	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ATTENTION	SEVERE	---

PQ		ASTM D8184		36	25	---
Iron	ppm	ASTM D5185m	>150	74	▲ 451	---
Chromium	ppm	ASTM D5185m	>10	2	6	---
Nickel	ppm	ASTM D5185m	>10	12	8	---
Titanium	ppm	ASTM D5185m		2	1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>5	● 13	▲ 24	---
Lead	ppm	ASTM D5185m	>65	<1	<1	---
Copper	ppm	ASTM D5185m	>80	1	4	---
Tin	ppm	ASTM D5185m	>8	<1	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

Silicon	ppm	ASTM D5185m	>20	4	9	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	● MILKY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	▲ 0.2%	---

Sodium	ppm	ASTM D5185m		3	10	---
Boron	ppm	ASTM D5185m	400	346	300	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	0	<1	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m	12	2	16	---
Calcium	ppm	ASTM D5185m	150	2	31	---
Phosphorus	ppm	ASTM D5185m	1650	1369	1465	---
Zinc	ppm	ASTM D5185m	125	12	56	---
Sulfur	ppm	ASTM D5185m	22500	26884	23769	---
Visc @ 40°C	cSt	ASTM D445	109	107	111	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VPA061876

Lab Number : 06154787

Unique Number : 10990210

Test Package : MOB 1 (Additional Tests: PQ)

Received : 19 Apr 2024

Tested : 22 Apr 2024

Diagnosed : 23 Apr 2024 - Don Baldrige

Endor Marine LLC - Coastal Marine - 152124

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SEATTLE, WA

US 98107

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)