



# VOLVO PENTA

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

**BILL SLEEPER [DANIEL/502869]**

Machine Id

**VOLVO PENTA 3102260801 - STERNDRIVE**

Component

**Starboard Gearbox**

Fluid

**GEAR OIL SAE 75W90 (2 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059170	VPA050741	---
Sample Date		Client Info		14 Mar 2024	20 Jun 2023	---
Machine Age	hrs	Client Info		1332	1309	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		113	26	---
Iron	ppm	ASTM D5185m	>150	79	27	---
Chromium	ppm	ASTM D5185m	>10	2	<1	---
Nickel	ppm	ASTM D5185m	>10	4	2	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	5	<1	---
Lead	ppm	ASTM D5185m	>65	<1	0	---
Copper	ppm	ASTM D5185m	>80	1	<1	---
Tin	ppm	ASTM D5185m	>8	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

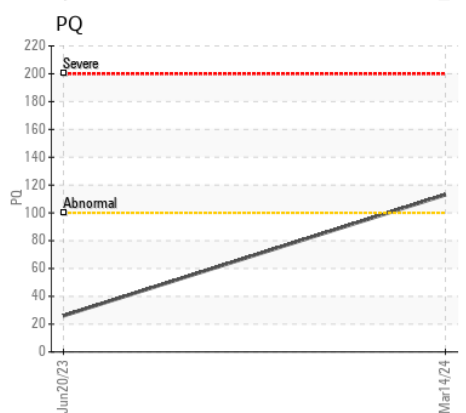
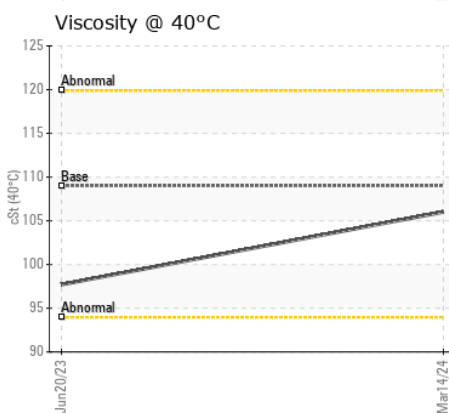
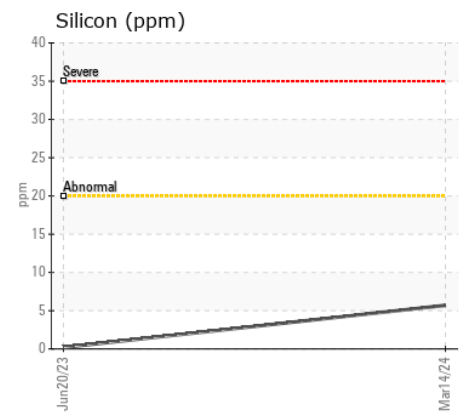
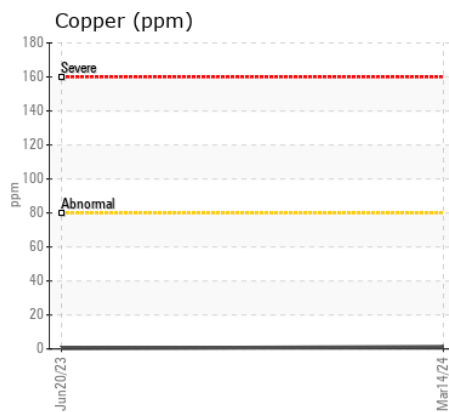
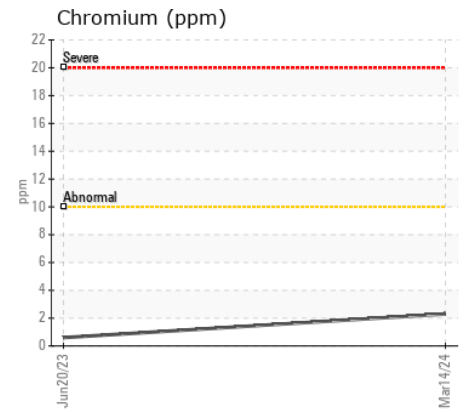
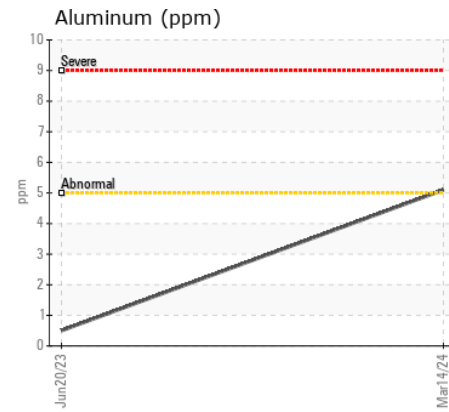
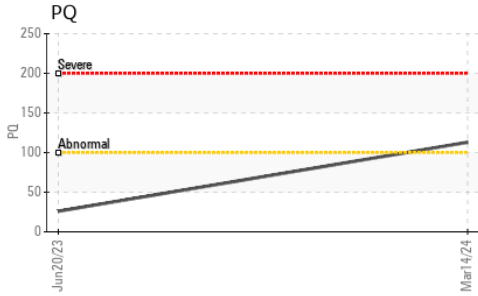
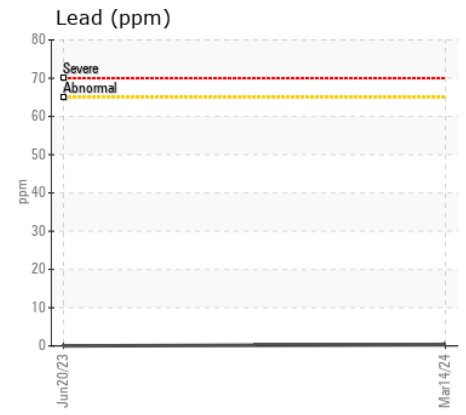
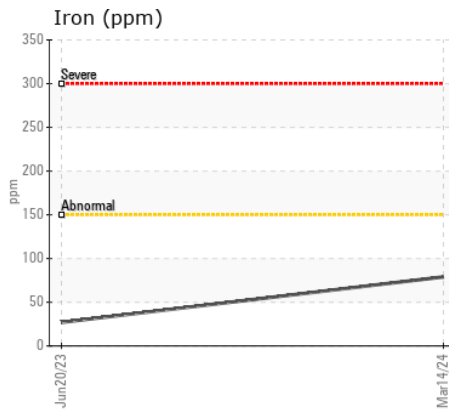
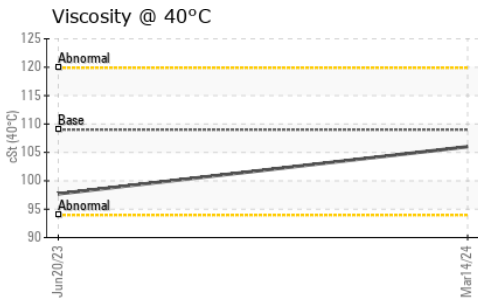
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	6	<1	---
Potassium	ppm	ASTM D5185m	>20	1	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	11	---
Boron	ppm	ASTM D5185m	400	303	24	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	<1	<1	---
Manganese	ppm	ASTM D5185m		2	<1	---
Magnesium	ppm	ASTM D5185m	12	2	3	---
Calcium	ppm	ASTM D5185m	150	8	14	---
Phosphorus	ppm	ASTM D5185m	1650	1203	375	---
Zinc	ppm	ASTM D5185m	125	4	0	---
Sulfur	ppm	ASTM D5185m	22500	25925	23069	---
Visc @ 40°C	cSt	ASTM D445	109	106	97.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA059170 **Received** : 20 Mar 2024  
**Lab Number** : 06123993 **Tested** : 21 Mar 2024  
**Unique Number** : 10938144 **Diagnosed** : 22 Mar 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: PQ )

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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)