



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
WAJER 55
Machine Id
VOLVO PENTA 3200001640
Component
Starboard IPS
Fluid
VOLVO PENTA GL-5 SAE 75W90 (4 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA014567	VPA049901	---
Sample Date		Client Info		02 Apr 2024	17 Oct 2023	---
Machine Age	hrs	Client Info		0	520	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		20	15	---
Iron	ppm	ASTM D5185m	>200	111	80	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	2	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		2	2	---
Lead	ppm	ASTM D5185m		0	<1	---
Copper	ppm	ASTM D5185m		35	28	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

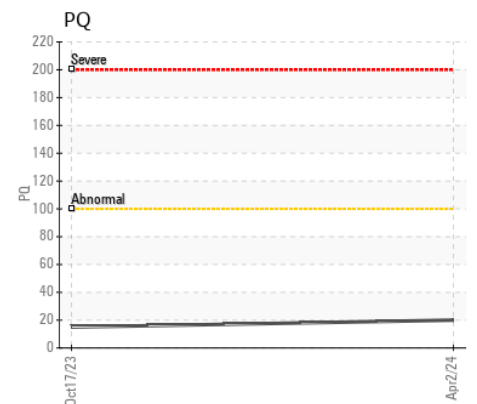
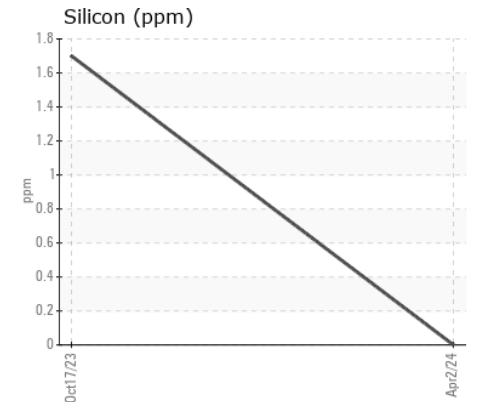
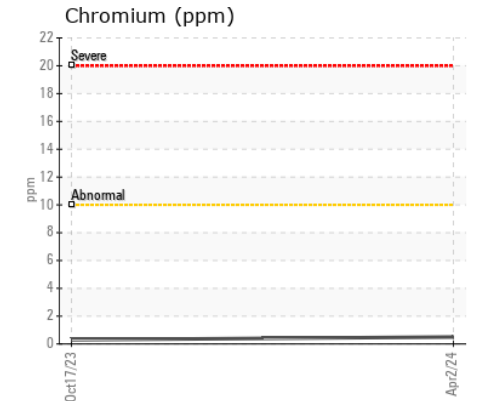
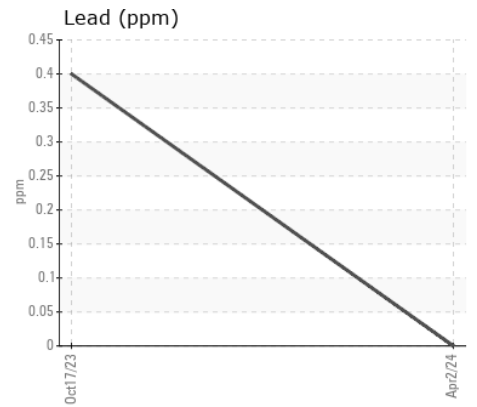
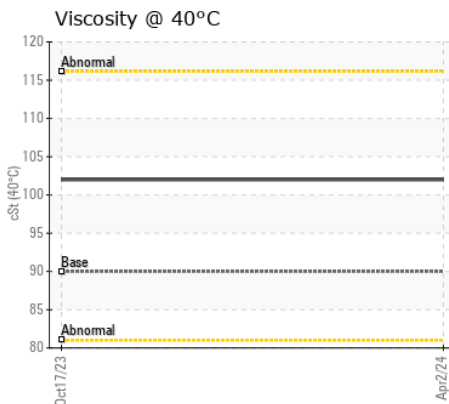
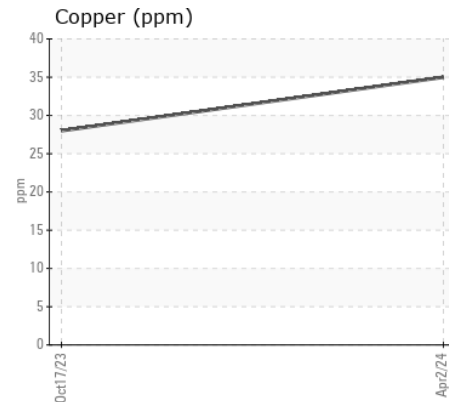
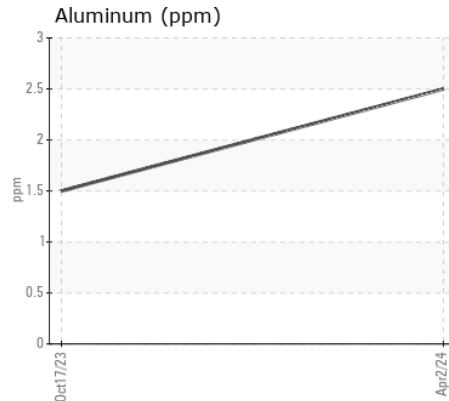
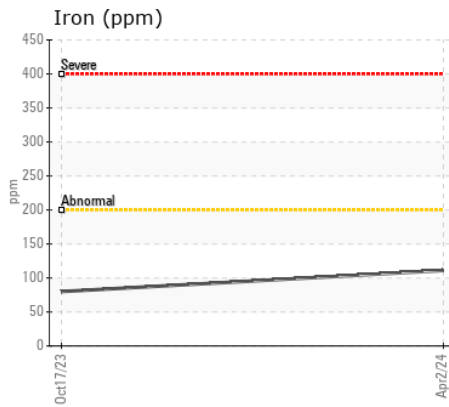
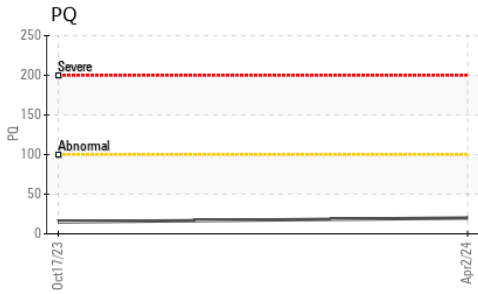
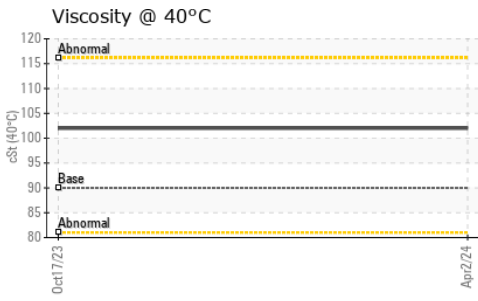
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		0	2	---
Potassium	ppm	ASTM D5185m	>20	6	7	---
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		6	2	---
Boron	ppm	ASTM D5185m		297	333	---
Barium	ppm	ASTM D5185m		0	9	---
Molybdenum	ppm	ASTM D5185m		1	2	---
Manganese	ppm	ASTM D5185m		6	6	---
Magnesium	ppm	ASTM D5185m		11	12	---
Calcium	ppm	ASTM D5185m		31	31	---
Phosphorus	ppm	ASTM D5185m		1490	1463	---
Zinc	ppm	ASTM D5185m		25	22	---
Sulfur	ppm	ASTM D5185m		25104	32432	---
Visc @ 40°C	cSt	ASTM D445	90.0	102	102	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA014567 **Received** : 10 Apr 2024
Lab Number : 06145440 **Tested** : 15 Apr 2024
Unique Number : 10970248 **Diagnosed** : 15 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: PQ)

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 3600 HACIENDA BLVD UNIT G
 DAVIE, FL
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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)