



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**RAFFY LORENTZIAN [205581]**  
 Machine Id  
**VOLVO PENTA A218121 - STERNDRIVE**  
 Component  
**Starboard Gearbox**  
 Fluid  
**VOLVO PENTA GL-5 SAE 75W90 (2 QTS)**

**RECOMMENDATION**

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

**WEAR**

All component wear rates are normal.

**CONTAMINATION**

Appearance is hazy. There is a light concentration of water present in the oil.

**FLUID CONDITION**

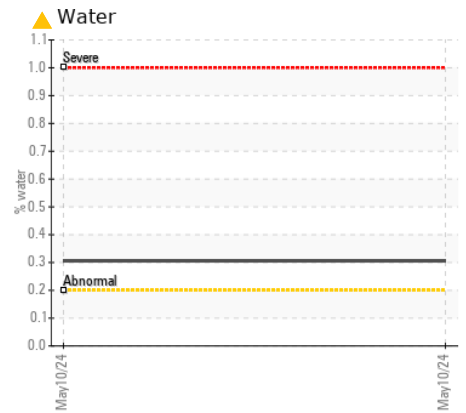
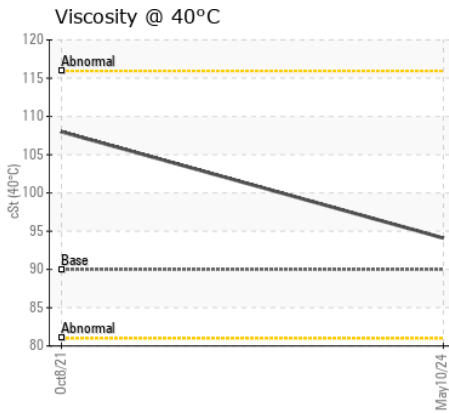
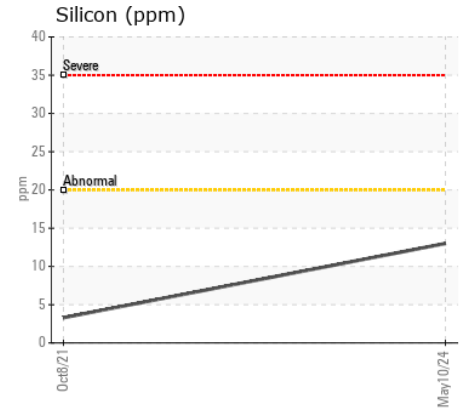
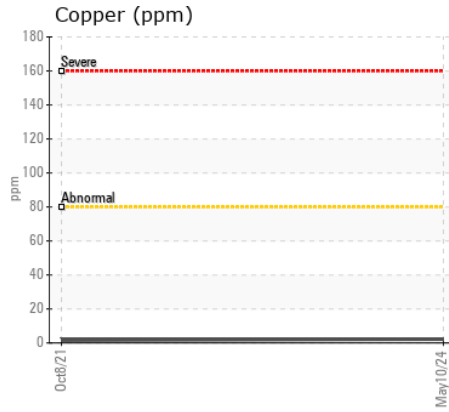
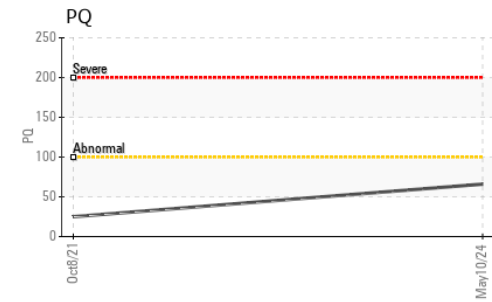
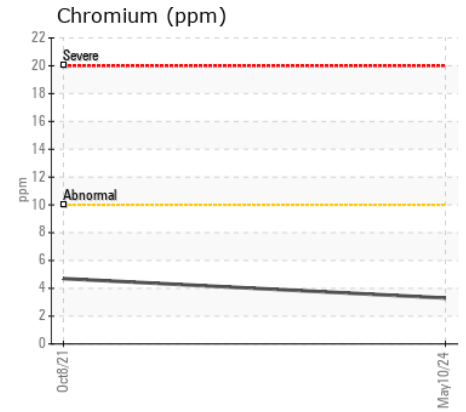
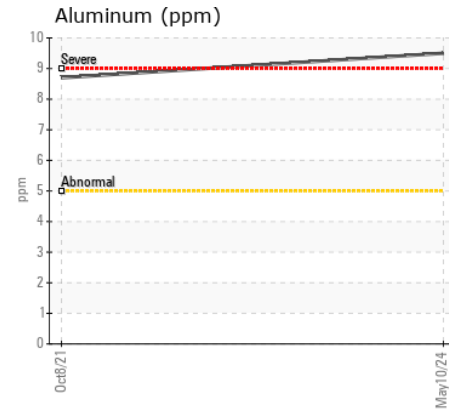
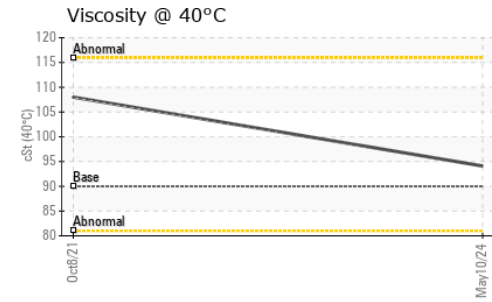
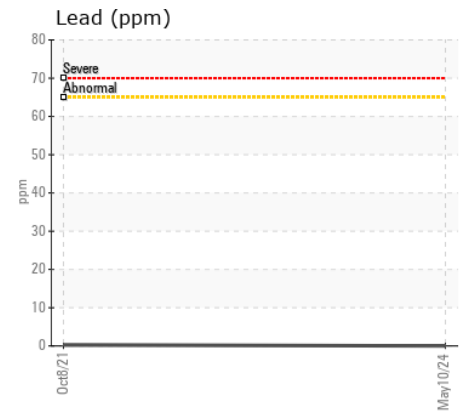
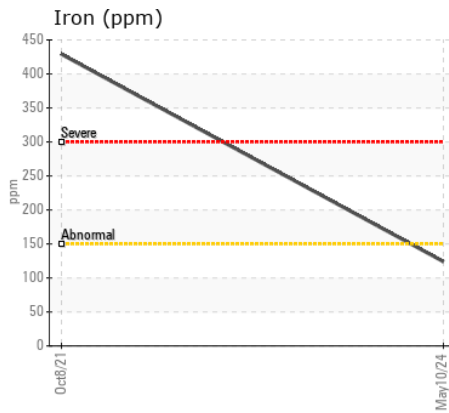
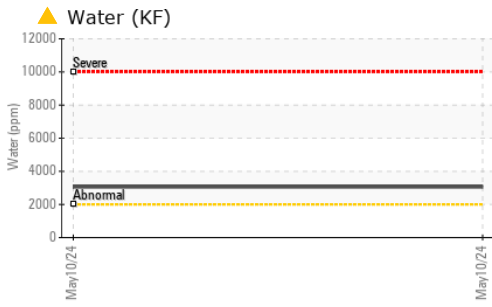
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA062005	VPA023716	---
Sample Date		Client Info		10 May 2024	08 Oct 2021	---
Machine Age	hrs	Client Info		452	450	---
Oil Age	hrs	Client Info		0	15	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	SEVERE	---

PQ		ASTM D8184		66	25	---
Iron	ppm	ASTM D5185m	>150	124	▲ 429	---
Chromium	ppm	ASTM D5185m	>10	3	5	---
Nickel	ppm	ASTM D5185m	>10	9	6	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	10	▲ 9	---
Lead	ppm	ASTM D5185m	>65	0	<1	---
Copper	ppm	ASTM D5185m	>80	2	2	---
Tin	ppm	ASTM D5185m	>8	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	VLITE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

Silicon	ppm	ASTM D5185m	>20	13	3	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water	%	ASTM D6304	>0.2	▲ 0.306	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3060	---	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	---

Sodium	ppm	ASTM D5185m		18	24	---
Boron	ppm	ASTM D5185m		390	198	---
Barium	ppm	ASTM D5185m		3	0	---
Molybdenum	ppm	ASTM D5185m		135	0	---
Manganese	ppm	ASTM D5185m		14	4	---
Magnesium	ppm	ASTM D5185m		51	3	---
Calcium	ppm	ASTM D5185m		264	31	---
Phosphorus	ppm	ASTM D5185m		1575	1177	---
Zinc	ppm	ASTM D5185m		235	47	---
Sulfur	ppm	ASTM D5185m		21690	35354	---
Visc @ 40°C	cSt	ASTM D445	90.0	94.1	108	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA062005 **Received** : 13 May 2024  
**Lab Number** : 06177910 **Tested** : 17 May 2024  
**Unique Number** : 11029236 **Diagnosed** : 17 May 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: KF, PQ )

**Cogswell Marine & Motorsports, Inc**  
 865 Stella Street  
 CHULA VISTA, CA  
 US 91911  
 Contact: Mitchell Cogswell  
 Cogswellmarinemotorsports@gmail.com

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)

T:  
F: