



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
RAFFY LORENTZIAN [205581]
 Machine Id
VOLVO PENTA A218649 - STERNDRIVE
 Component
Port 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.

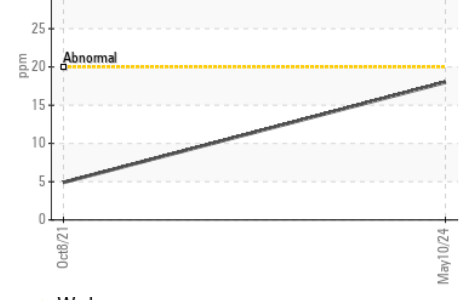
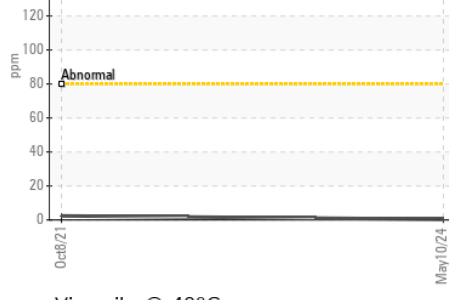
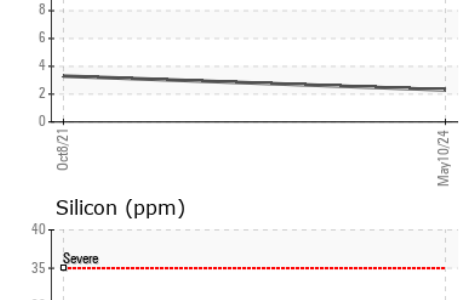
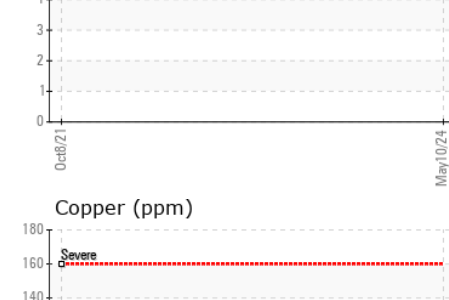
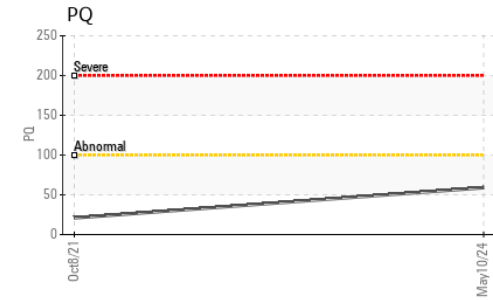
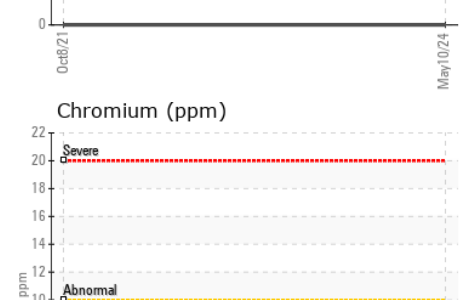
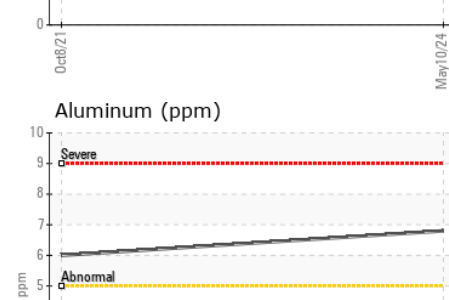
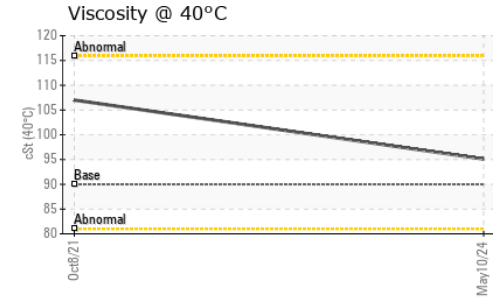
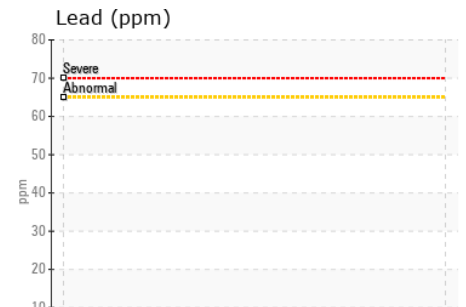
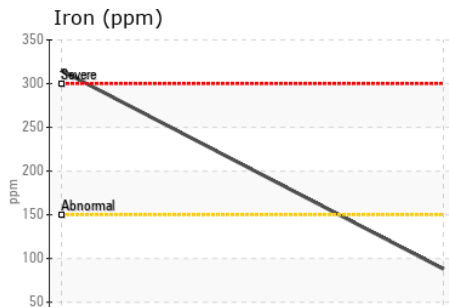
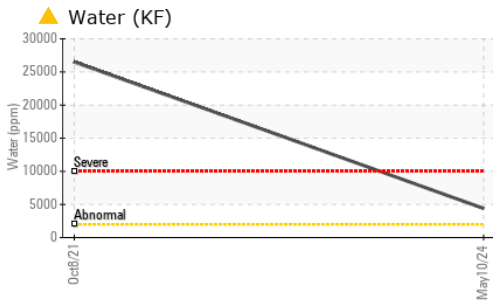
CONTAMINATION

Appearance is hazy. There is a moderate 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		VPA062012	VPA023708	---
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		59	21	---
Iron	ppm	ASTM D5185m	>150	88	▲ 315	---
Chromium	ppm	ASTM D5185m	>10	2	3	---
Nickel	ppm	ASTM D5185m	>10	8	10	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	7	6	---
Lead	ppm	ASTM D5185m	>65	0	0	---
Copper	ppm	ASTM D5185m	>80	<1	2	---
Tin	ppm	ASTM D5185m	>8	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	18	5	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water	%	ASTM D6304	>0.2	▲ 0.440	▲ 2.65	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4400	▲ 26500	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	● HAZY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%	---
Sodium	ppm	ASTM D5185m		19	● 207	---
Boron	ppm	ASTM D5185m		513	188	---
Barium	ppm	ASTM D5185m		4	0	---
Molybdenum	ppm	ASTM D5185m		136	0	---
Manganese	ppm	ASTM D5185m		13	3	---
Magnesium	ppm	ASTM D5185m		53	18	---
Calcium	ppm	ASTM D5185m		202	22	---
Phosphorus	ppm	ASTM D5185m		1608	893	---
Zinc	ppm	ASTM D5185m		235	33	---
Sulfur	ppm	ASTM D5185m		21901	26081	---
Visc @ 40°C	cSt	ASTM D445	90.0	95.1	107	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA062012 **Received** : 13 May 2024
Lab Number : 06177911 **Tested** : 17 May 2024
Unique Number : 11029237 **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)

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F: