



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
SHALLCROSS
Machine Id
VOLVO PENTA VOLVO PENTA IPS-1 (S/N NOT GIVEN)
Component
Starboard IPS
Fluid
GEAR OIL SAE 75W90 (--- 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA057122	---	---
Sample Date		Client Info		17 May 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ATTENTION	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		17	---	---
Iron	ppm	ASTM D5185m	>200	76	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m		2	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		9	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

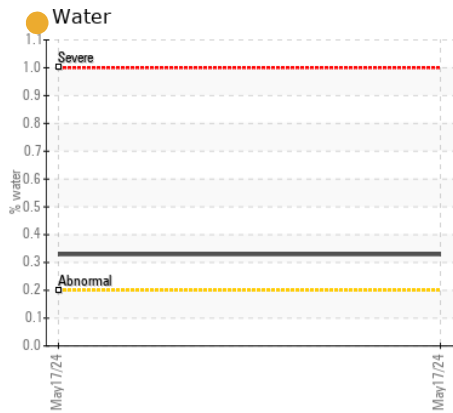
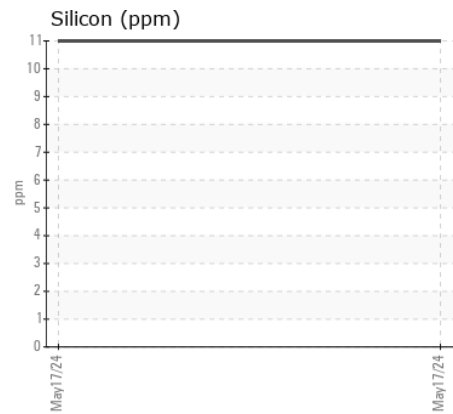
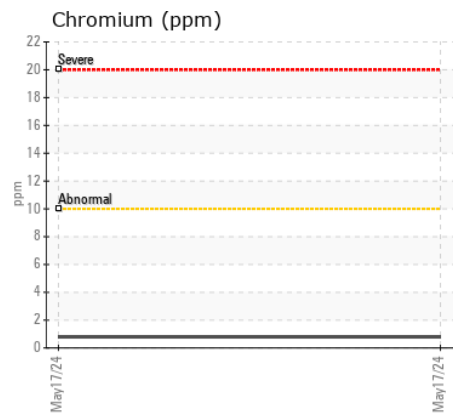
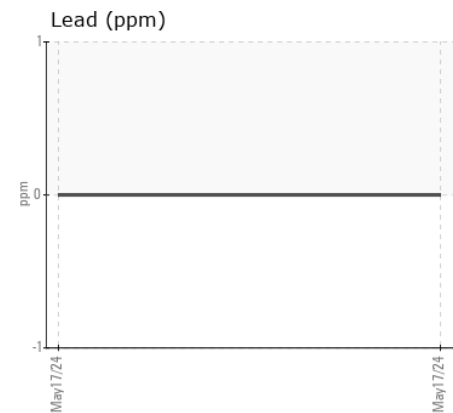
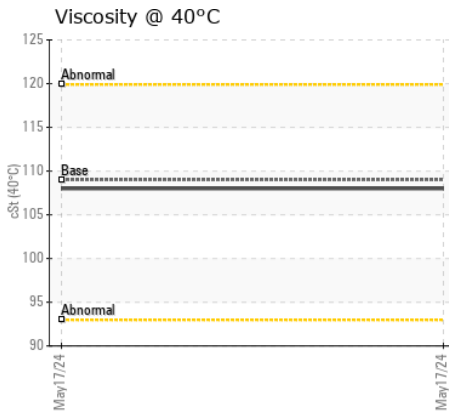
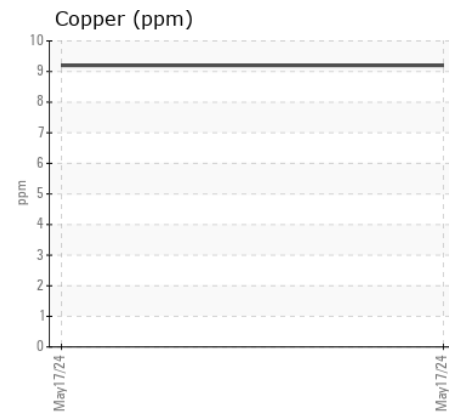
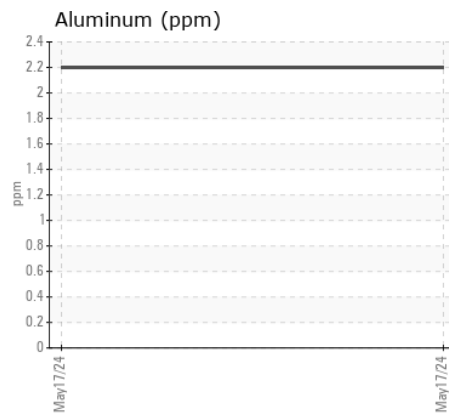
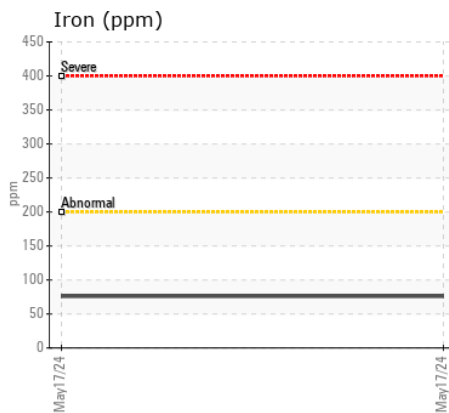
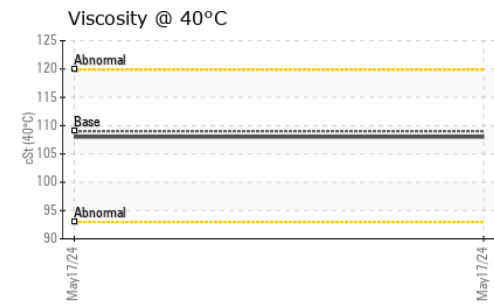
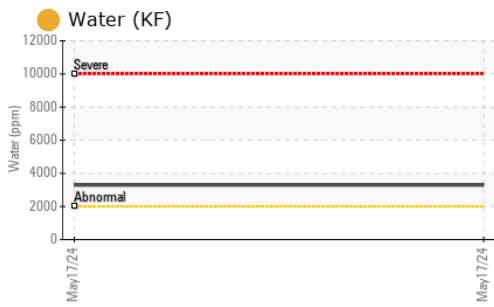
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		11	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.2	0.329	---	---
ppm Water	ppm	ASTM D6304	>2000	3290	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		14	---	---
Boron	ppm	ASTM D5185m	400	312	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	<1	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	12	3	---	---
Calcium	ppm	ASTM D5185m	150	11	---	---
Phosphorus	ppm	ASTM D5185m	1650	1363	---	---
Zinc	ppm	ASTM D5185m	125	32	---	---
Sulfur	ppm	ASTM D5185m	22500	26669	---	---
Visc @ 40°C	cSt	ASTM D445	109	108	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA057122 **Received** : 28 May 2024
Lab Number : 06192531 **Tested** : 30 May 2024
Unique Number : 11049283 **Diagnosed** : 30 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF, PQ)

Point Judith Marina
 360 Gooseberry Road
 WAKEFIELD, RI
 US 02879

Contact: MATT ST. ANGELO
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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)

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