



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Area

[SMITH]

Machine Id

VOLVO PENTA 3200000251

Component

Port IPS

Fluid

GEAR OIL SAE 75W90 (--- GAL)

## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

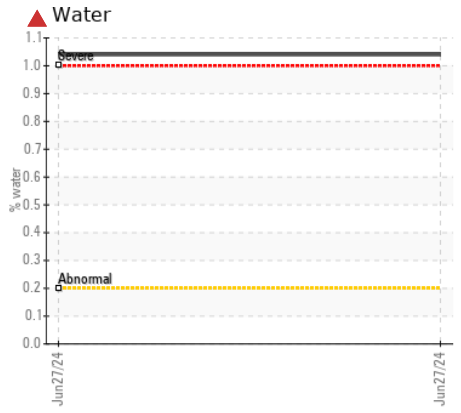
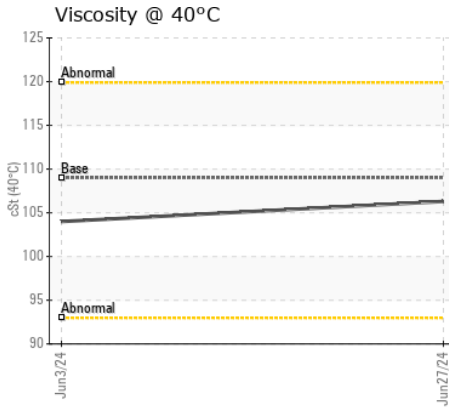
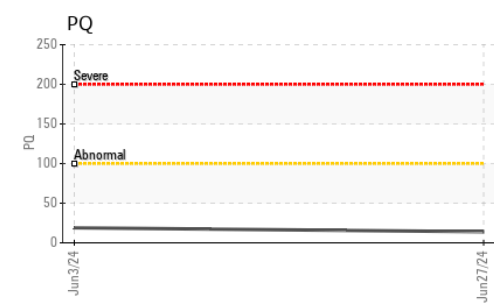
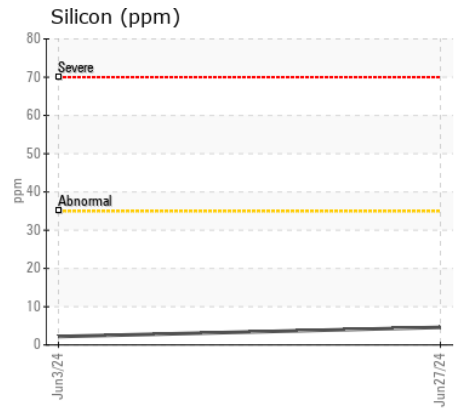
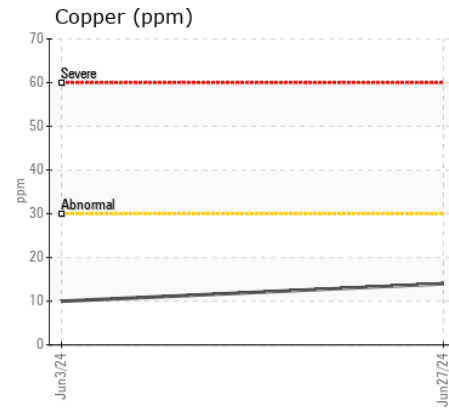
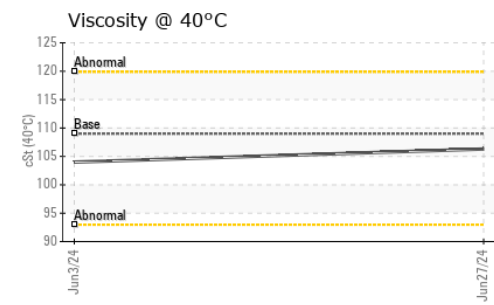
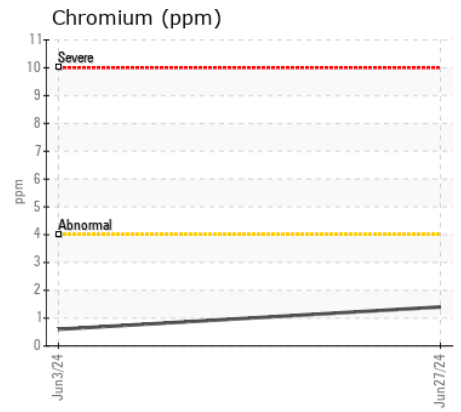
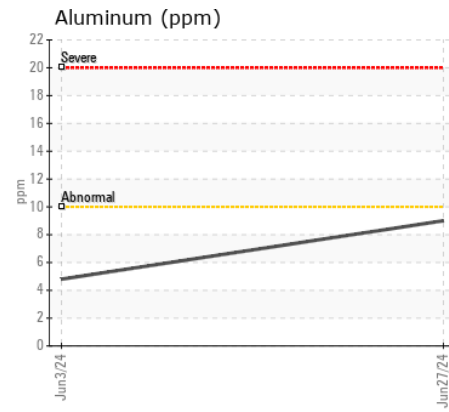
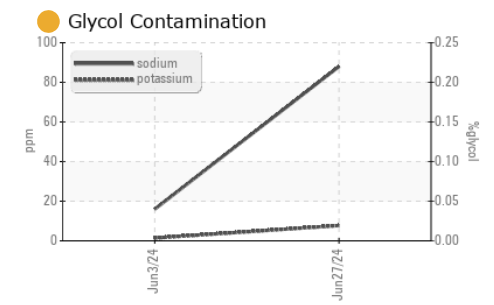
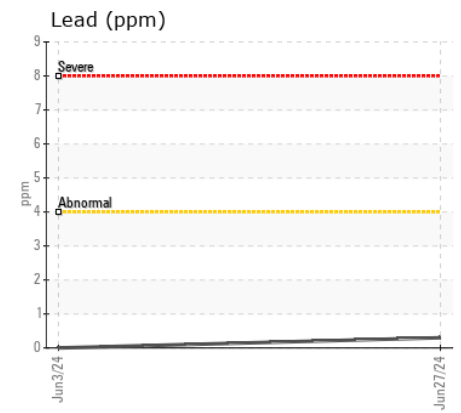
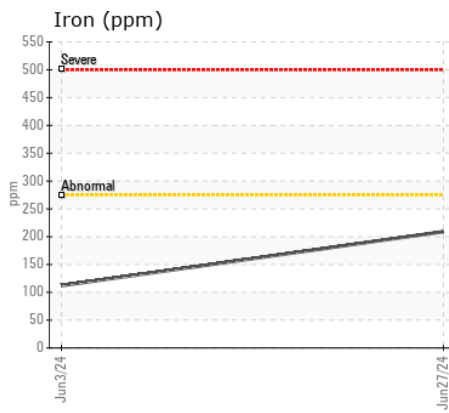
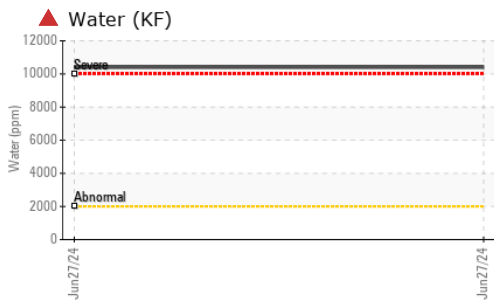
## CONTAMINATION

Appearance is unacceptable. There is a high concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water.

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA062945	VPA059393	---
Sample Date		Client Info		27 Jun 2024	03 Jun 2024	---
Machine Age	hrs	Client Info		692	674	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				SEVERE	NORMAL	---
PQ		ASTM D8184		14	19	---
Iron	ppm	ASTM D5185m	>275	209	112	---
Chromium	ppm	ASTM D5185m	>4	1	<1	---
Nickel	ppm	ASTM D5185m	>4	3	1	---
Titanium	ppm	ASTM D5185m	>3	0	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>10	9	5	---
Lead	ppm	ASTM D5185m	>4	<1	0	---
Copper	ppm	ASTM D5185m	>30	14	10	---
Tin	ppm	ASTM D5185m	>3	2	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>35	5	2	---
Potassium	ppm	ASTM D5185m	>20	8	1	---
Water	%	ASTM D6304	>0.2	▲ 1.04	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 10400	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● MILKY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	---
Sodium	ppm	ASTM D5185m		● 88	16	---
Boron	ppm	ASTM D5185m	400	133	106	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	6	6	---
Manganese	ppm	ASTM D5185m		3	1	---
Magnesium	ppm	ASTM D5185m	12	28	8	---
Calcium	ppm	ASTM D5185m	150	264	42	---
Phosphorus	ppm	ASTM D5185m	1650	1451	1344	---
Zinc	ppm	ASTM D5185m	125	154	47	---
Sulfur	ppm	ASTM D5185m	22500	30030	24403	---
Visc @ 40°C	cSt	ASTM D445	109	106.3	104	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA062945 **Received** : 28 Jun 2024  
**Lab Number** : 06223978 **Tested** : 28 Jun 2024  
**Unique Number** : 11102175 **Diagnosed** : 28 Jun 2024 - Doug Bogart  
**Test Package** : MOB 1 ( Additional Tests: KF, PQ )

**SUNCOAST DIESEL MARINE**  
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 US 34240  
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 info@suncoastdmi.com  
 T: (941)342-0033  
 F:

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)