



OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**BRETT AGGEN [AR502940]**

Machine Id

**VOLVO PENTA 4202133582 - STERNDRIVE**

Component

**Gearbox**

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**WEAR**

Gear wear is indicated.

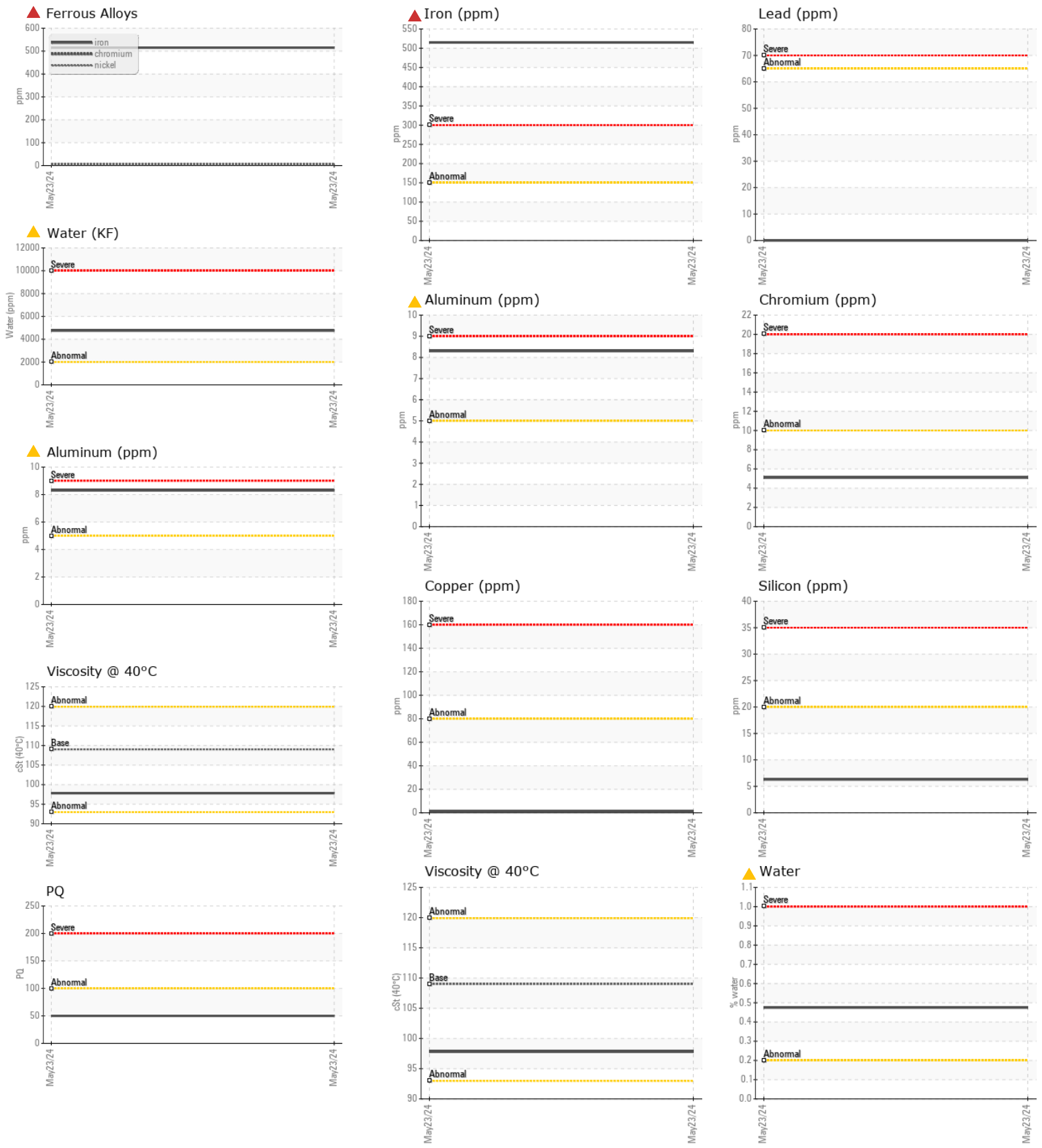
**CONTAMINATION**

There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

**FLUID CONDITION**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA053198	---	---
Sample Date		Client Info		23 May 2024	---	---
Machine Age	hrs	Client Info		323	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		50	---	---
Iron	ppm	ASTM D5185m	>150	▲ 515	---	---
Chromium	ppm	ASTM D5185m	>10	5	---	---
Nickel	ppm	ASTM D5185m	>10	6	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>5	▲ 8	---	---
Lead	ppm	ASTM D5185m	>65	0	---	---
Copper	ppm	ASTM D5185m	>80	2	---	---
Tin	ppm	ASTM D5185m	>8	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	6	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.2	▲ 0.475	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4750	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m	400	184	---	---
Barium	ppm	ASTM D5185m	200	<1	---	---
Molybdenum	ppm	ASTM D5185m	12	14	---	---
Manganese	ppm	ASTM D5185m		7	---	---
Magnesium	ppm	ASTM D5185m	12	44	---	---
Calcium	ppm	ASTM D5185m	150	102	---	---
Phosphorus	ppm	ASTM D5185m	1650	1377	---	---
Zinc	ppm	ASTM D5185m	125	188	---	---
Sulfur	ppm	ASTM D5185m	22500	27567	---	---
Visc @ 40°C	cSt	ASTM D445	109	97.8	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA053198  
**Lab Number** : 06195706  
**Unique Number** : 11057829  
**Test Package** : MOB 1 ( Additional Tests: KF, PQ )

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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)