



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

[534195]

Machine Id

TERRAMAC RT14R 14RH00105

Component

Front Left Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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. Bearing and/or bushing wear is indicated. Generally an abnormal to severe rate of wear throughout the component.

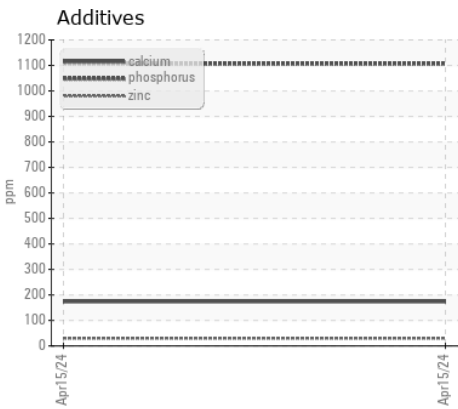
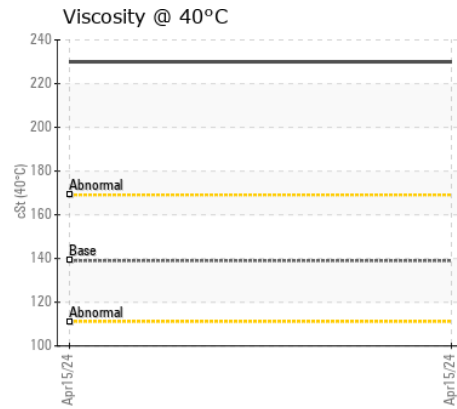
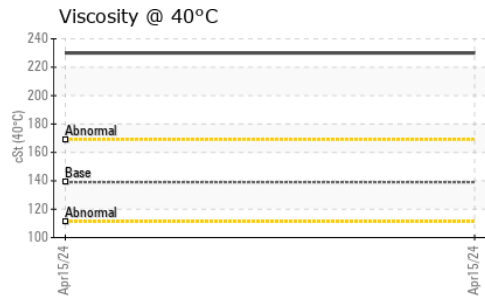
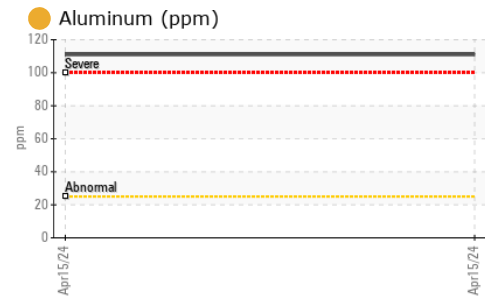
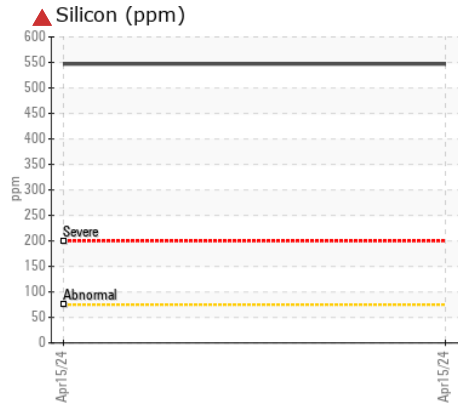
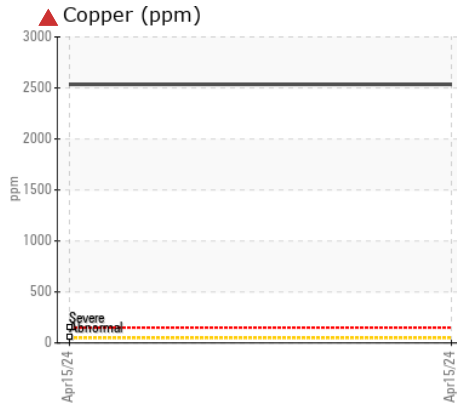
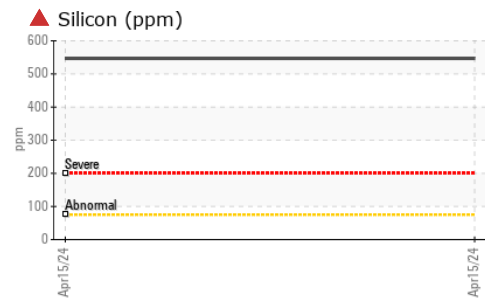
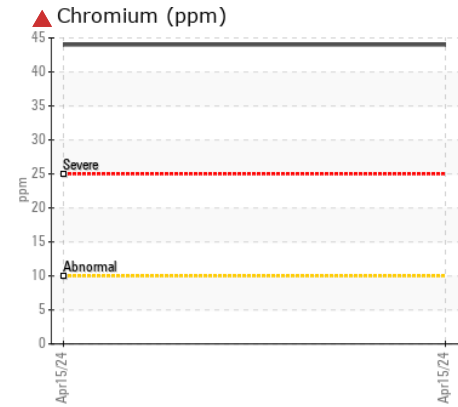
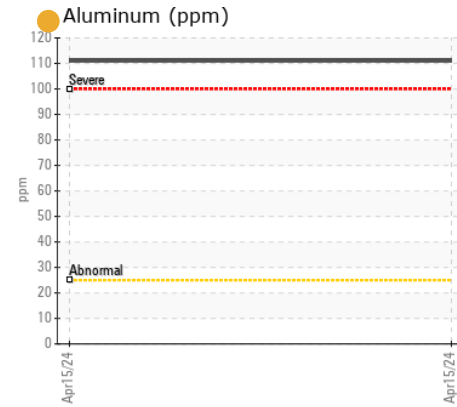
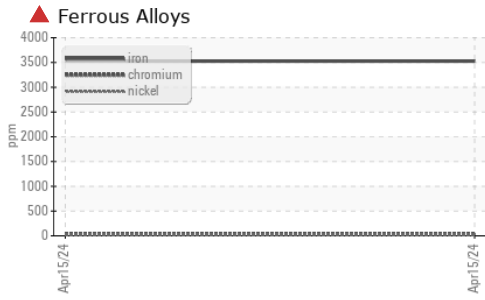
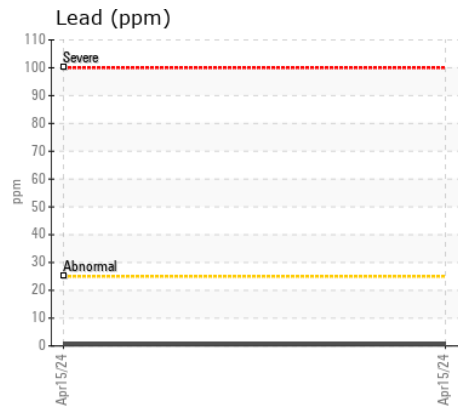
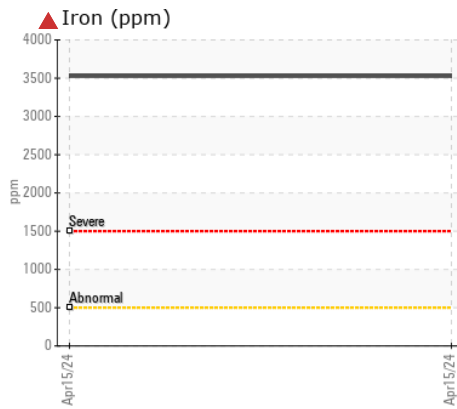
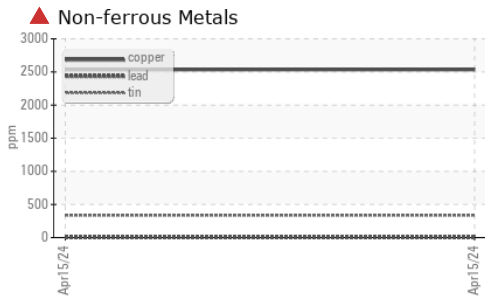
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		VCP435060	---	---
Sample Date		Client Info		15 Apr 2024	---	---
Machine Age	hrs	Client Info		2616	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	▲ 3526	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 44	---	---
Nickel	ppm	ASTM D5185m	>10	12	---	---
Titanium	ppm	ASTM D5185m		9	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>25	● 111	---	---
Lead	ppm	ASTM D5185m	>25	<1	---	---
Copper	ppm	ASTM D5185m	>50	▲ 2535	---	---
Tin	ppm	ASTM D5185m	>10	▲ 336	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 547	---	---
Potassium	ppm	ASTM D5185m	>20	41	---	---
Water		WC Method	>0.2	NEG	---	---
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	NEG	---	---
Sodium	ppm	ASTM D5185m		16	---	---
Boron	ppm	ASTM D5185m	379	146	---	---
Barium	ppm	ASTM D5185m	0.0	6	---	---
Molybdenum	ppm	ASTM D5185m	0.8	303	---	---
Manganese	ppm	ASTM D5185m	0.0	24	---	---
Magnesium	ppm	ASTM D5185m	31	32	---	---
Calcium	ppm	ASTM D5185m	38	174	---	---
Phosphorus	ppm	ASTM D5185m	1077	1107	---	---
Zinc	ppm	ASTM D5185m	46	30	---	---
Sulfur	ppm	ASTM D5185m	23526	24532	---	---
Visc @ 40°C	cSt	ASTM D445	139	230	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP435060 **Received** : 19 Apr 2024
Lab Number : 06154808 **Tested** : 22 Apr 2024
Unique Number : 10990231 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : MOB 1

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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