



VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
TERRAMAC RT14R 14RH00105
Component
Front Right 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

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

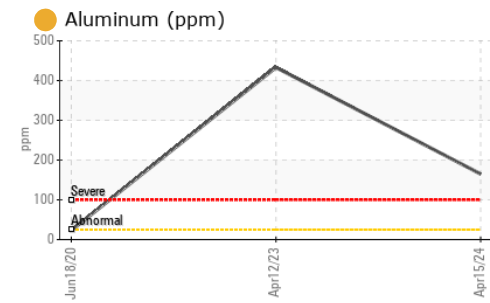
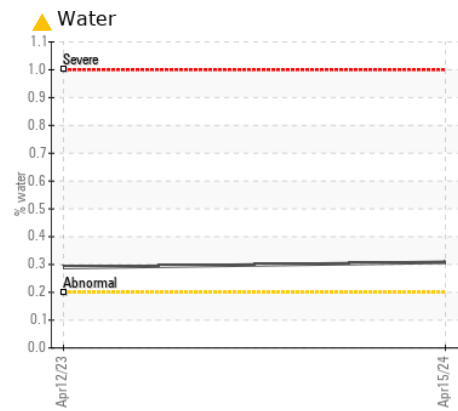
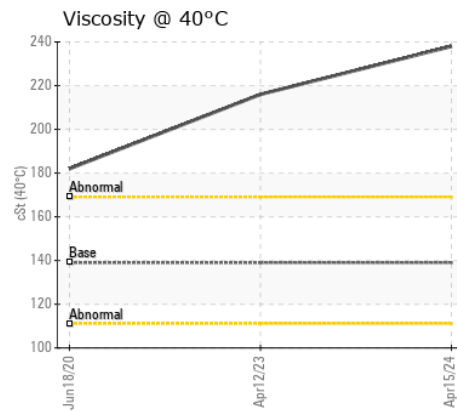
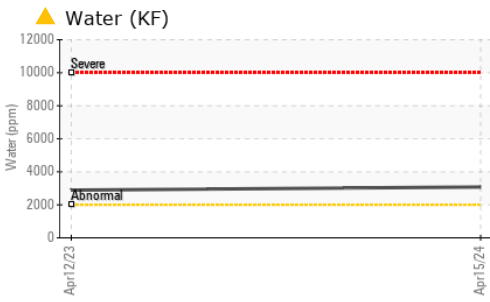
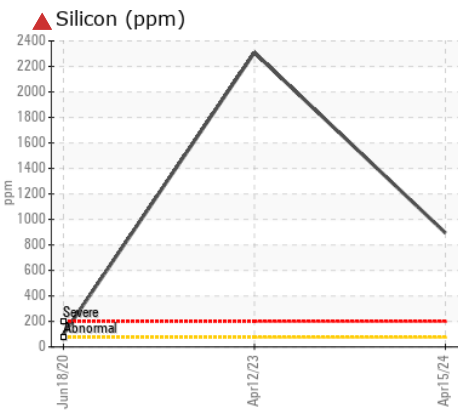
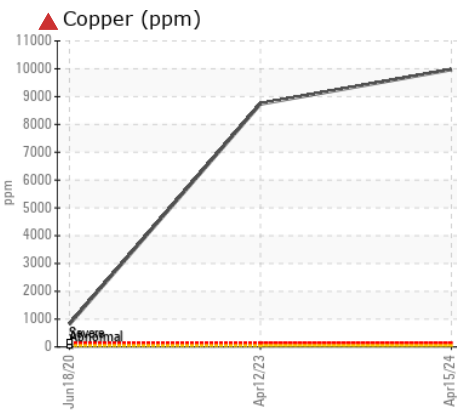
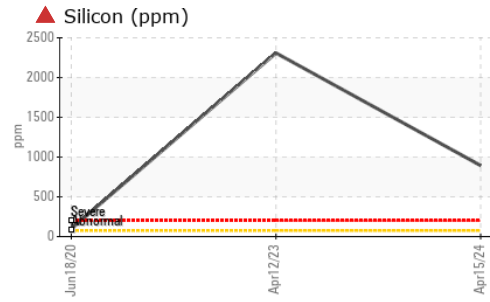
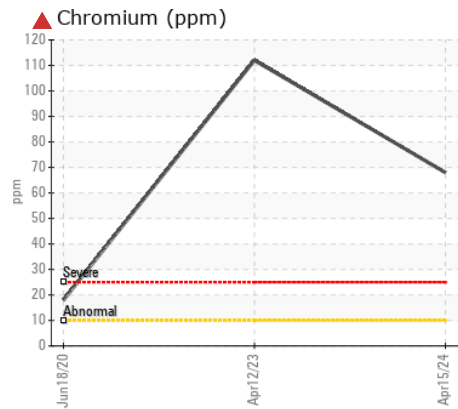
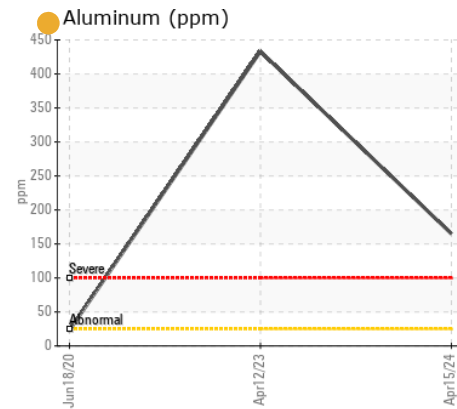
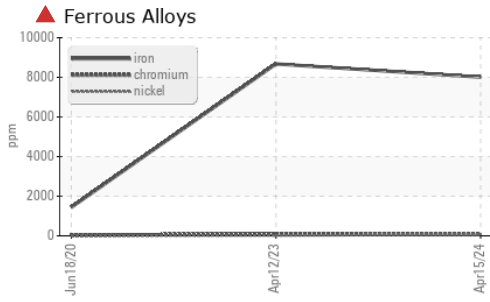
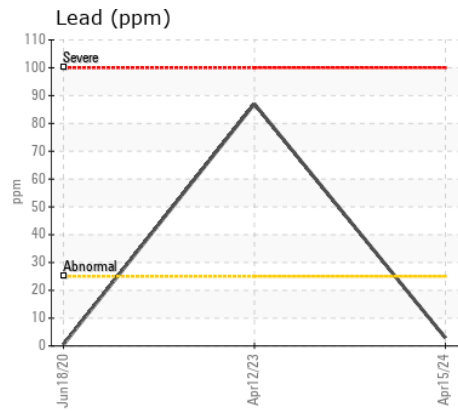
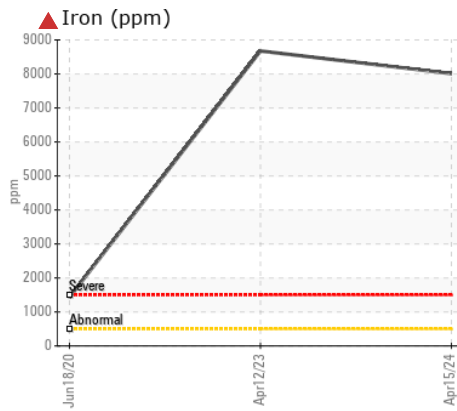
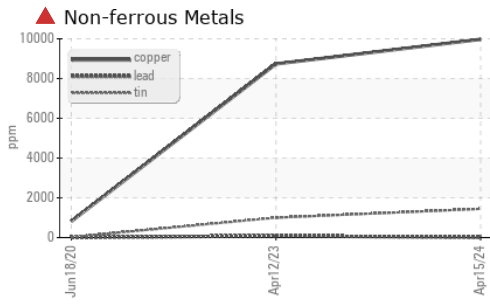
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP435062	VCP368613	VCP284706
Sample Date		Client Info		15 Apr 2024	12 Apr 2023	18 Jun 2020
Machine Age	hrs	Client Info		2616	2320	1108
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE

Iron	ppm	ASTM D5185m	>500	▲ 8010	▲ 8675	▲ 1434
Chromium	ppm	ASTM D5185m	>10	▲ 68	▲ 112	▲ 18
Nickel	ppm	ASTM D5185m	>10	▲ 54	11	<1
Titanium	ppm	ASTM D5185m		16	40	2
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 165	● 433	▲ 23
Lead	ppm	ASTM D5185m	>25	3	▲ 87	<1
Copper	ppm	ASTM D5185m	>50	▲ 9974	▲ 8736	▲ 818
Tin	ppm	ASTM D5185m	>10	▲ 1446	▲ 1000	▲ 21
Vanadium	ppm	ASTM D5185m		1	2	0
White Metal	scalar	*Visual	NONE	MODER	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 894	▲ 2309	▲ 99
Potassium	ppm	ASTM D5185m	>20	59	162	10
Water	%	ASTM D6304	>0.2	▲ 0.308	▲ 0.289	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3080	▲ 2890	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG

Sodium	ppm	ASTM D5185m		27	60	13
Boron	ppm	ASTM D5185m	379	161	146	23
Barium	ppm	ASTM D5185m	0.0	11	9	47
Molybdenum	ppm	ASTM D5185m	0.8	399	323	235
Manganese	ppm	ASTM D5185m	0.0	65	57	8
Magnesium	ppm	ASTM D5185m	31	49	118	10
Calcium	ppm	ASTM D5185m	38	200	574	70
Phosphorus	ppm	ASTM D5185m	1077	1235	1202	787
Zinc	ppm	ASTM D5185m	46	69	75	32
Sulfur	ppm	ASTM D5185m	23526	25685	24562	11042
Visc @ 40°C	cSt	ASTM D445	139	238	216	182



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP435062 **Received** : 19 Apr 2024
Lab Number : 06154807 **Tested** : 23 Apr 2024
Unique Number : 10990230 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

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)

ALTA EQUIPMENT
 5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471