



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
TERRAMAC RT14R 14RH00105
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP435061	VCP368620	VCP284692
Sample Date		Client Info		15 Apr 2024	12 Apr 2023	18 Jun 2020
Machine Age	hrs	Client Info		0	2320	1108
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>400	299	183	26
Chromium	ppm	ASTM D5185m	>10	3	3	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	9	19
Lead	ppm	ASTM D5185m	>50	<1	2	<1
Copper	ppm	ASTM D5185m	>200	7	▲ 164	2
Tin	ppm	ASTM D5185m	>10	<1	▲ 35	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

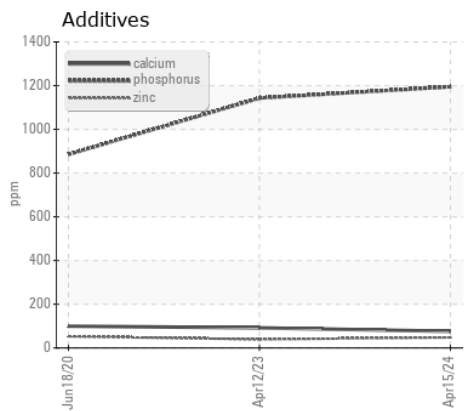
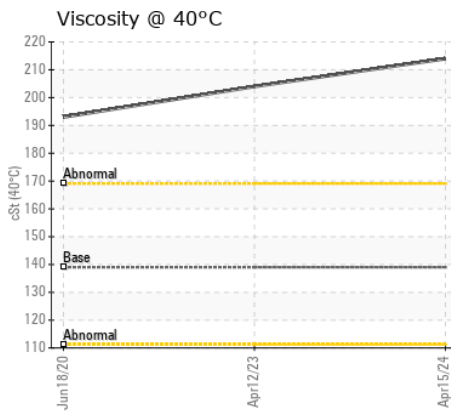
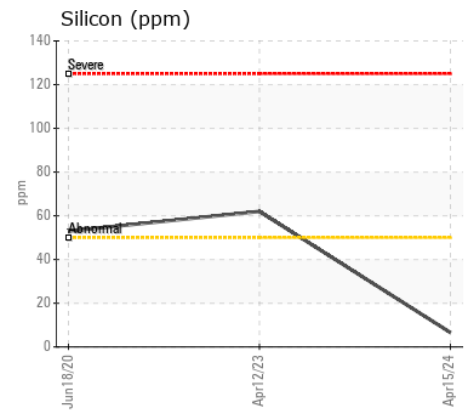
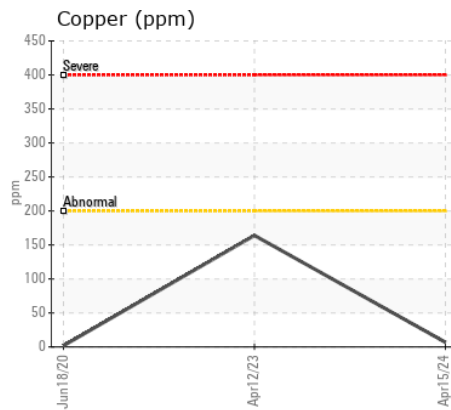
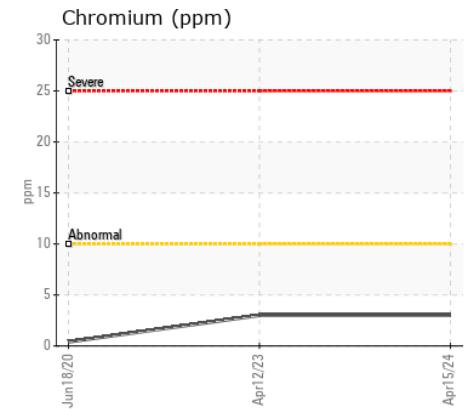
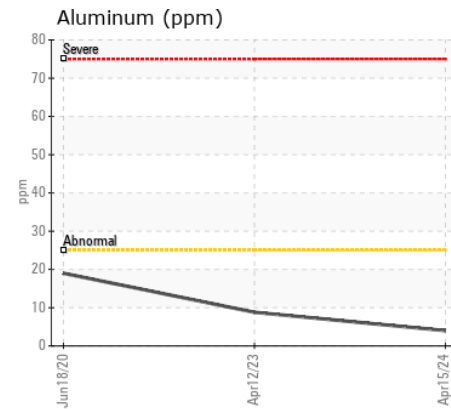
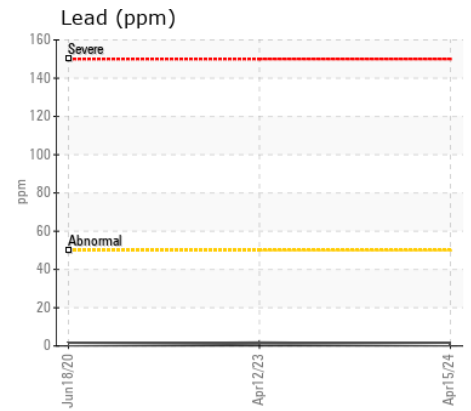
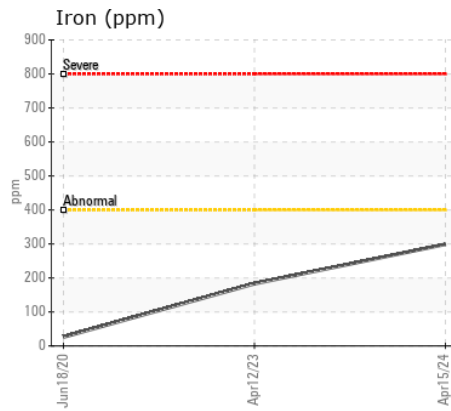
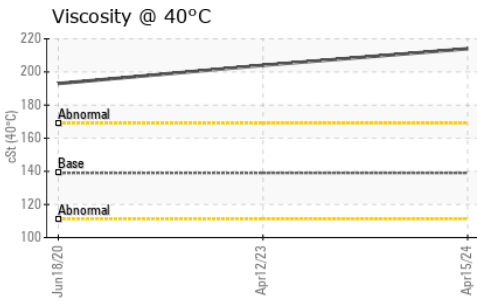
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	7	▲ 62	▲ 53
Potassium	ppm	ASTM D5185m	>20	2	6	10
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	6	10
Boron	ppm	ASTM D5185m	379	106	109	73
Barium	ppm	ASTM D5185m	0.0	1	0	3
Molybdenum	ppm	ASTM D5185m	0.8	367	383	312
Manganese	ppm	ASTM D5185m	0.0	3	3	1
Magnesium	ppm	ASTM D5185m	31	2	9	11
Calcium	ppm	ASTM D5185m	38	76	92	100
Phosphorus	ppm	ASTM D5185m	1077	1195	1143	885
Zinc	ppm	ASTM D5185m	46	48	39	53
Sulfur	ppm	ASTM D5185m	23526	25643	25056	11439
Visc @ 40°C	cSt	ASTM D445	139	214	204	193



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP435061

Lab Number : 06154802

Unique Number : 10990225

Test Package : MOB 1

Received : 19 Apr 2024

Tested : 22 Apr 2024

Diagnosed : 22 Apr 2024 - Wes Davis

ALTA EQUIPMENT

5985 COURT STREET ROAD

SYRACUSE, NY

US 13206

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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)