



VOLVO

OIL ANALYSIS REPORT

WEAR**SEVERE****CONTAMINATION****NORMAL****FLUID CONDITION****NORMAL**

Area
[W07014012 CT PERCOLL]
 Machine Id
VOLVO A40F 11629
 Component
Transmission (Auto)
 Fluid
VOLVO AT 102 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP409432	VCP245644	VCP209971
Sample Date		Client Info		02 Jan 2024	23 Oct 2019	26 Jun 2017
Machine Age	hrs	Client Info		8499	6140	4568
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Clutch and/or bushing/bearing wear is indicated.

Iron	ppm	ASTM D5185m	>160	43	16	33
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	2	<1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	26	12	19
Lead	ppm	ASTM D5185m	>50	1	0	0
Copper	ppm	ASTM D5185m	>225	605	268	558
Tin	ppm	ASTM D5185m	>10	31	12	30
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

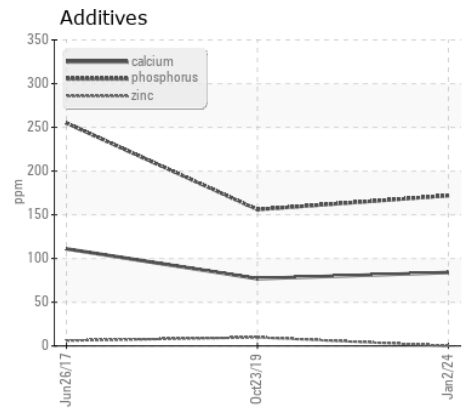
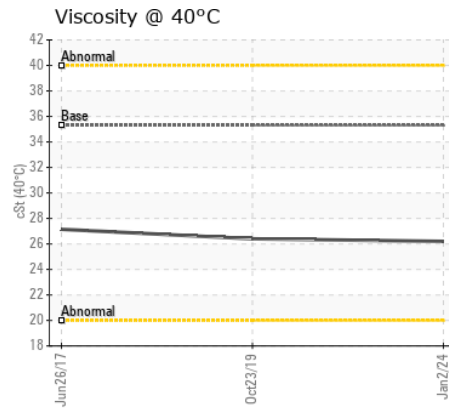
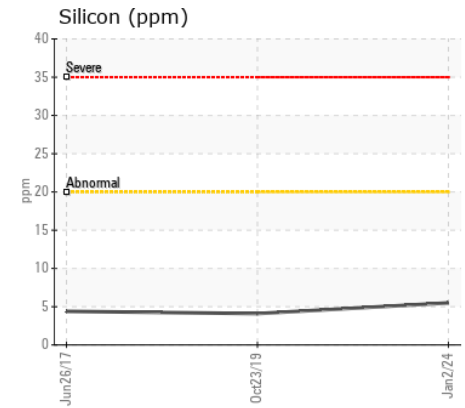
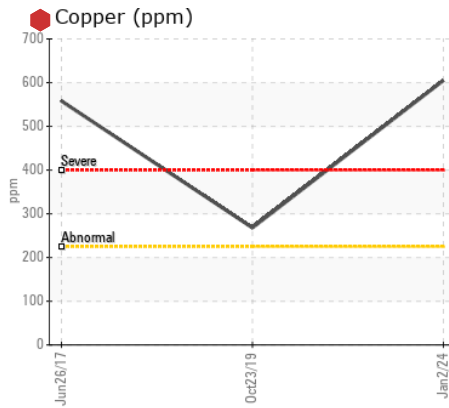
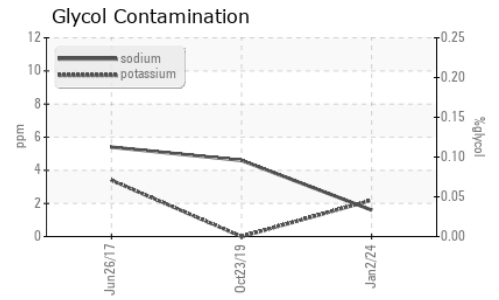
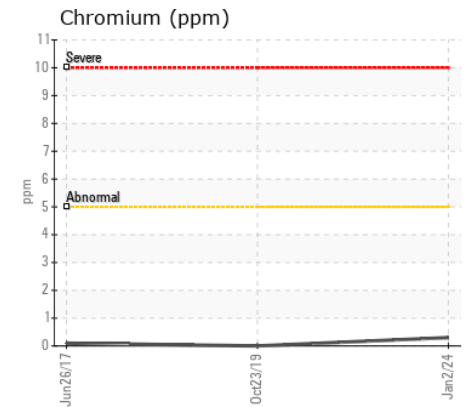
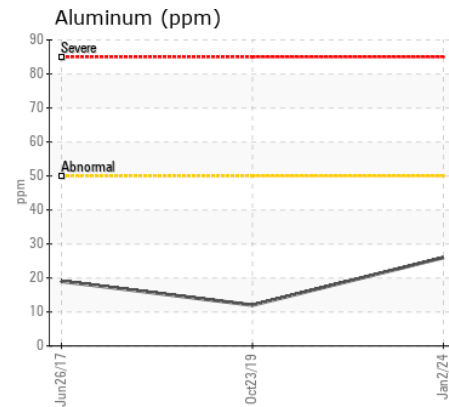
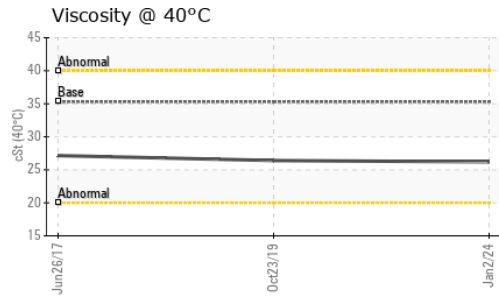
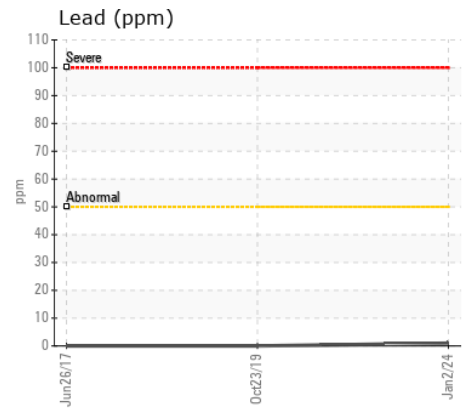
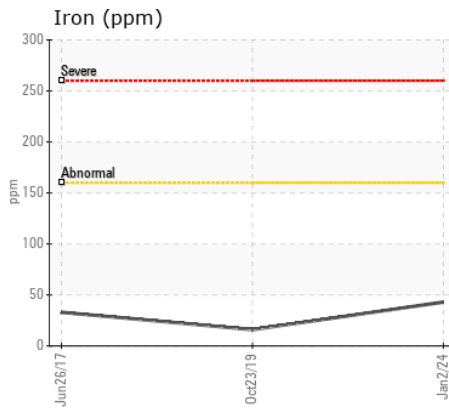
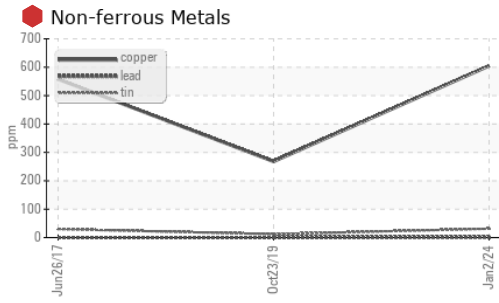
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	6	4	4
Potassium	ppm	ASTM D5185m	>20	2	0	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	5	5
Boron	ppm	ASTM D5185m	187	66	75	97
Barium	ppm	ASTM D5185m	0.0	0	<1	<1
Molybdenum	ppm	ASTM D5185m	0.0	<1	0	0
Manganese	ppm	ASTM D5185m	0.0	1	<1	<1
Magnesium	ppm	ASTM D5185m	6.8	1	<1	<1
Calcium	ppm	ASTM D5185m	215	84	77	111
Phosphorus	ppm	ASTM D5185m	445	172	156	255
Zinc	ppm	ASTM D5185m	56	0	10	6
Sulfur	ppm	ASTM D5185m	1336	1882	2082	1855
Visc @ 40°C	cSt	ASTM D445	35.3	26.2	26.4	27.15



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP409432 **Received** : 08 Jan 2024
Lab Number : 06055108 **Diagnosed** : 10 Jan 2024
Unique Number : 10821057 **Diagnostician** : Jonathan Hester
Test Package : MOBCE (Additional Tests: Glycol)

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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)