

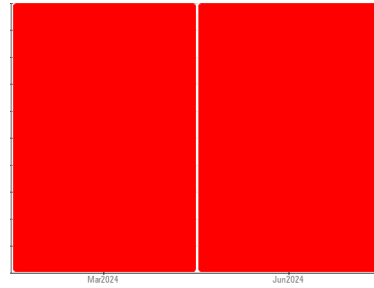
PROBLEM SUMMARY

Sample Rating Trend

GLYCOL

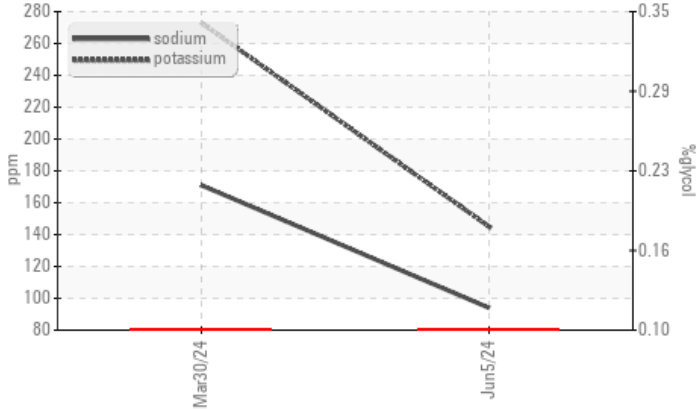


Machine Id
VOLVO L90H 626239
 Component
Transmission
 Fluid
VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)

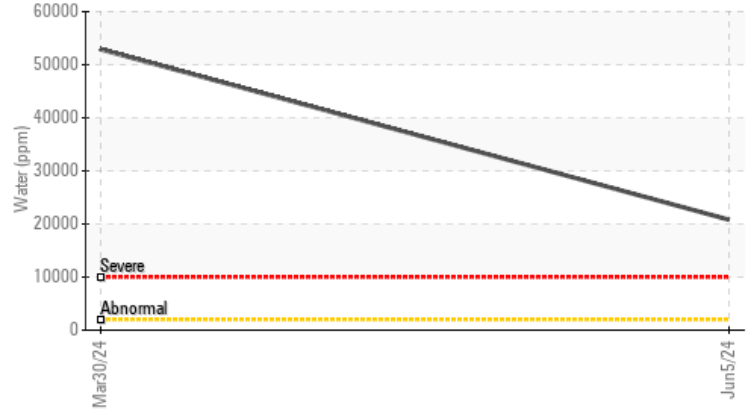


COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



▲ Water (KF)



RECOMMENDATION

We advise that you check for the source of coolant entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Sodium	ppm	ASTM D5185m		▲ 94	▲ 171	---
Potassium	ppm	ASTM D5185m	>20	▲ 145	▲ 273	---
Water	%	ASTM D6304	>0.2	▲ 2.08	▲ 5.29	---
ppm Water	ppm	ASTM D6304	>2000	▲ 20800	▲ 52900	---
Glycol	%	*ASTM D2982		▲ 0.10	▲ 0.10	---
Silt	scalar	*Visual	NONE	▲ MODER	▲ MODER	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	▲ 0.2%	---

Customer Id: VOLVO0264
 Sample No.: ML0002952
 Lab Number: 06205188
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	MISSED	Jul 12 2024	?	We recommend that you drain the fluid from the component if this has not already been done.
Resample	MISSED	Jul 12 2024	?	We recommend an early resample to monitor this condition.
Check Water Access	MISSED	Jul 12 2024	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

GLYCOL



30 Mar 2024 Diag: Jonathan Hester

We advise that you check for the source of coolant entry. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. Sodium and/or potassium levels are high. There is a high concentration of water present in the fluid. There is a moderate amount of visible silt present in the sample. The fluid is no longer serviceable due to the presence of contaminants.

view report



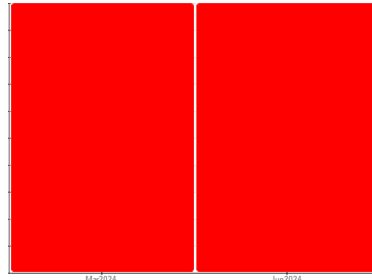
OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id
VOLVO L90H 626239
Component
Transmission
Fluid
VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of coolant entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Appearance is milky. Sodium and/or potassium levels are high. There is a high concentration of water present in the fluid. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ML0002952	ML0000741	---
Sample Date	Client Info		05 Jun 2024	30 Mar 2024	---
Machine Age	hrs	Client Info	2431	2066	---
Oil Age	hrs	Client Info	365	0	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	93	98	---
Chromium	ppm	ASTM D5185m >20	<1	<1	---
Nickel	ppm	ASTM D5185m >10	3	4	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >30	4	2	---
Lead	ppm	ASTM D5185m >50	0	1	---
Copper	ppm	ASTM D5185m >50	5	5	---
Tin	ppm	ASTM D5185m >20	2	4	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 187	120	102	---
Barium	ppm	ASTM D5185m 0.0	1	0	---
Molybdenum	ppm	ASTM D5185m 0.0	15	35	---
Manganese	ppm	ASTM D5185m 0.0	10	13	---
Magnesium	ppm	ASTM D5185m 6.8	4	20	---
Calcium	ppm	ASTM D5185m 215	66	90	---
Phosphorus	ppm	ASTM D5185m 445	197	183	---
Zinc	ppm	ASTM D5185m 56	258	428	---
Sulfur	ppm	ASTM D5185m 1336	2841	2514	---

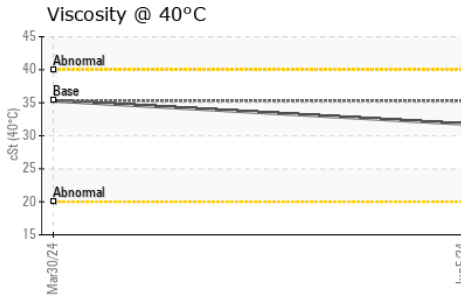
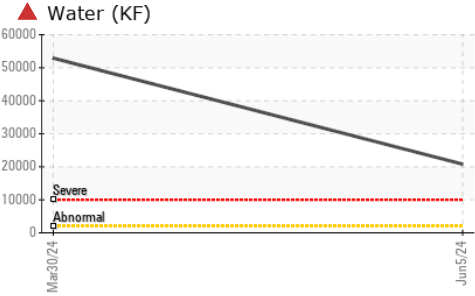
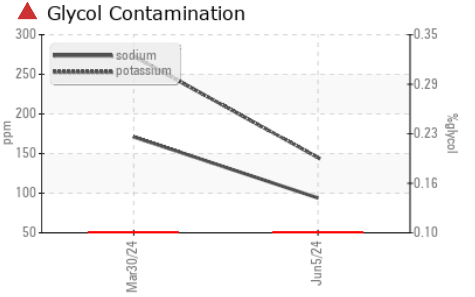
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	14	9	---
Sodium	ppm	ASTM D5185m	94	171	---
Potassium	ppm	ASTM D5185m >20	145	273	---
Water	%	ASTM D6304 >0.2	2.08	5.29	---
ppm Water	ppm	ASTM D6304 >2000	20800	52900	---
Glycol	%	*ASTM D2982	0.10	0.10	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	MODER	MODER	---
Debris	scalar	*Visual NONE	MODER	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	MILKY	MILKY	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.2	0.2%	0.2%	---
Free Water	scalar	*Visual	NEG	NEG	---

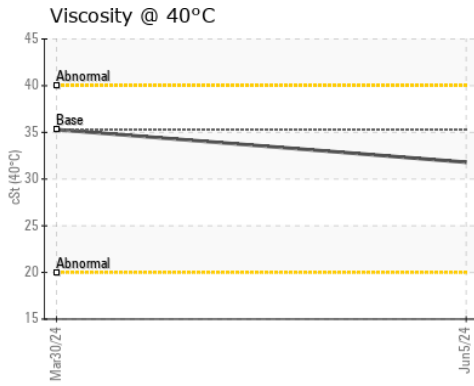
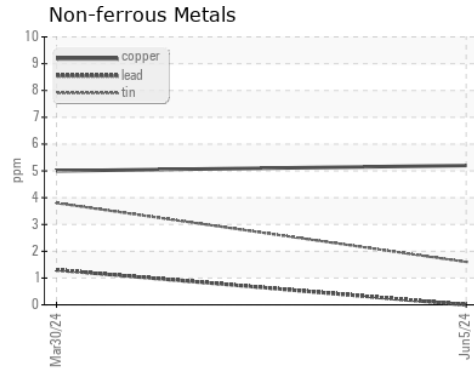
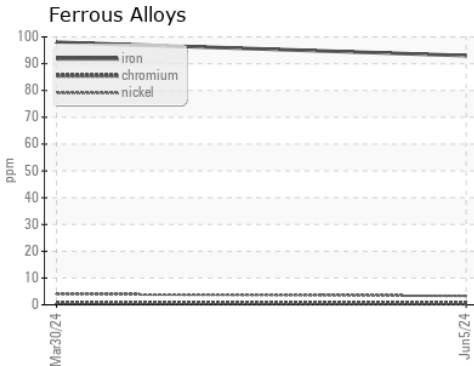
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	35.3	31.8	35.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002952 **Received** : 10 Jun 2024
Lab Number : **06205188** **Tested** : 13 Jun 2024
Unique Number : 11072649 **Diagnosed** : 13 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF)

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 US 23323
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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)