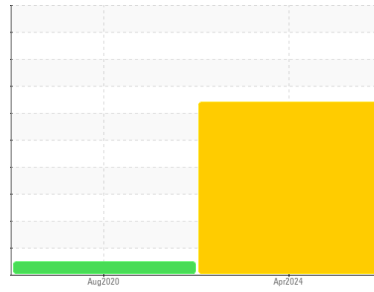


PROBLEM SUMMARY



Machine Id
VOLVO L70H 622991
 Component
Front Axle
 Fluid
VOLVO SUPER WET BRAKE TRANSAXLE OIL WB102 (--- GAL)

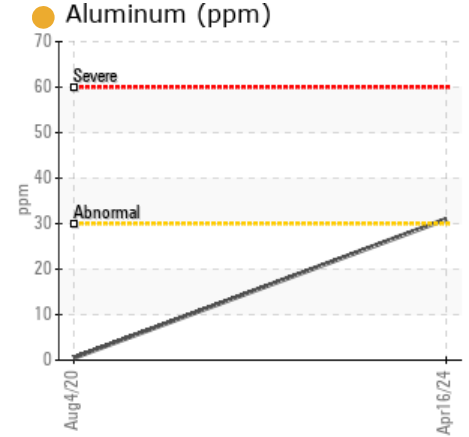
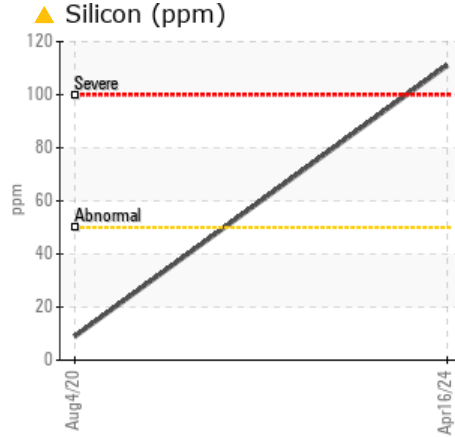
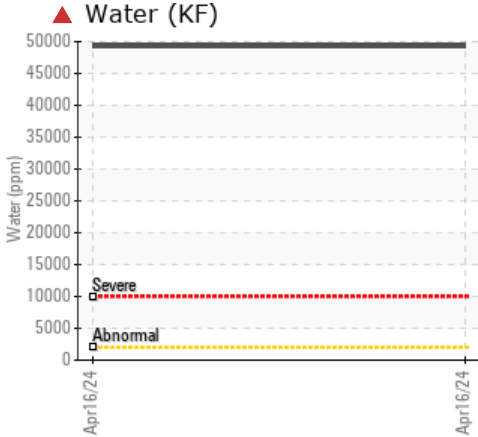
Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	---
Silicon	ppm	ASTM D5185m	>50	▲ 111	9	---
Water	%	ASTM D6304	>0.2	▲ 4.93	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 49300	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	---

Customer Id: VOLVO8882
 Sample No.: ML0001467
 Lab Number: 06154972
 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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

04 Aug 2020 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

NORMAL

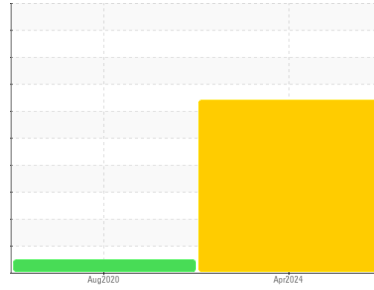


view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
VOLVO L70H 622991
 Component
Front Axle
 Fluid
VOLVO SUPER WET BRAKE TRANSAXLE OIL WB102 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

● Wear

All component wear rates are normal.

▲ Contamination

Appearance is milky. There is a high 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ML0001467	VCP283801	---
Sample Date	Client Info		16 Apr 2024	04 Aug 2020	---
Machine Age	hrs	Client Info	11074	4217	---
Oil Age	hrs	Client Info	2500	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			SEVERE	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	289	33	---
Chromium	ppm	ASTM D5185m	>20	3	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		3	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>30	31	<1	---
Lead	ppm	ASTM D5185m	>50	0	<1	---
Copper	ppm	ASTM D5185m	>120	0	<1	---
Tin	ppm	ASTM D5185m	>20	2	<1	---
Antimony	ppm	ASTM D5185m	>5	---	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		136	109	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		1	2	---
Manganese	ppm	ASTM D5185m		6	3	---
Magnesium	ppm	ASTM D5185m		15	7	---
Calcium	ppm	ASTM D5185m		3868	3600	---
Phosphorus	ppm	ASTM D5185m		1353	1280	---
Zinc	ppm	ASTM D5185m		1587	1356	---
Sulfur	ppm	ASTM D5185m		4518	4235	---

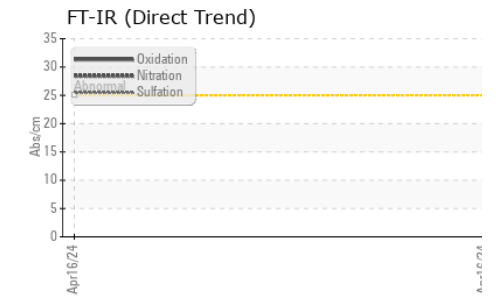
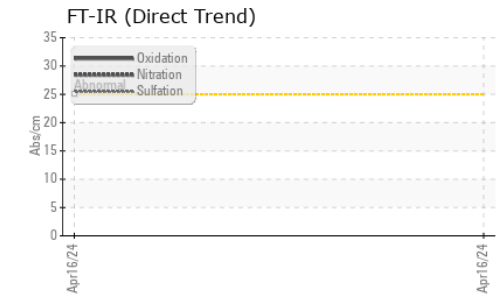
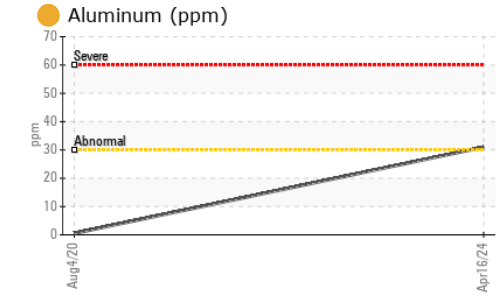
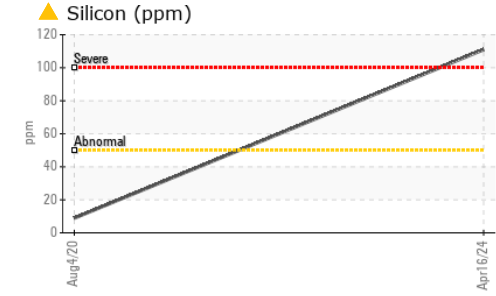
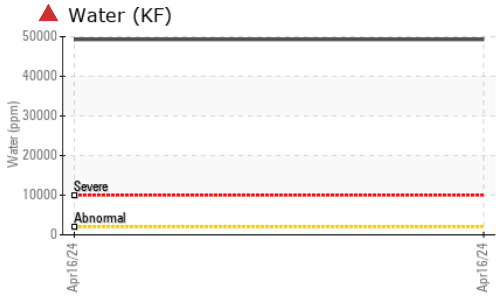
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	▲ 111	9	---
Sodium	ppm	ASTM D5185m		12	5	---
Potassium	ppm	ASTM D5185m	>20	9	<1	---
Water	%	ASTM D6304	>0.2	▲ 4.93	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 49300	---	---

VISUAL

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

OIL ANALYSIS REPORT

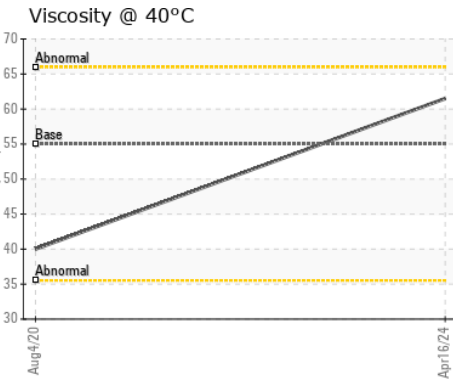
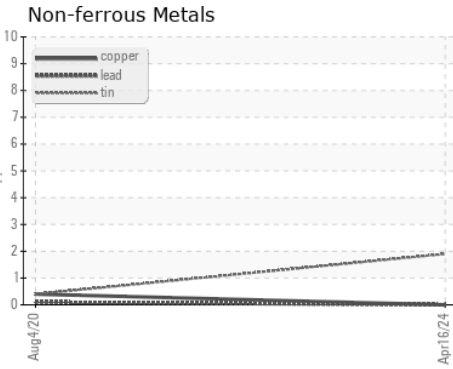
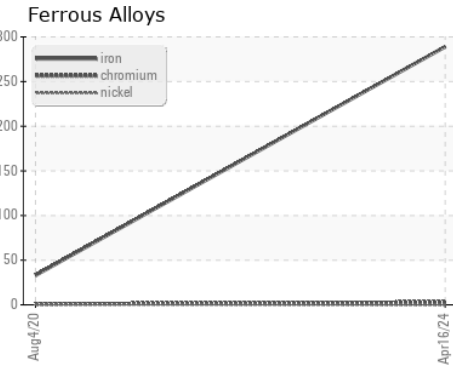


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	61.5	40.0	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001467 **Received** : 19 Apr 2024
Lab Number : 06154972 **Tested** : 24 Apr 2024
Unique Number : 10990395 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FT-IR, KF)

McCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFF
 KRATLIFFE@MCCLUNG-LOGAN.COM

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) F: (804)266-1611