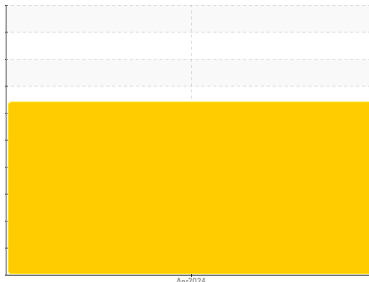


# PROBLEM SUMMARY

Sample Rating Trend



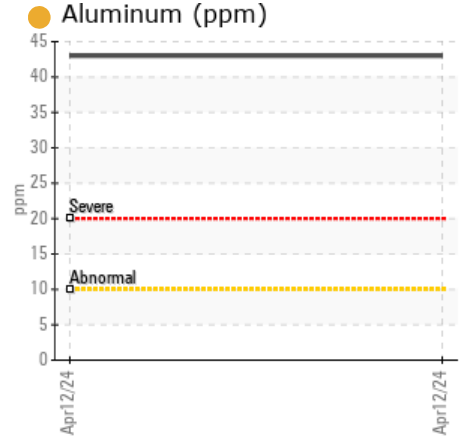
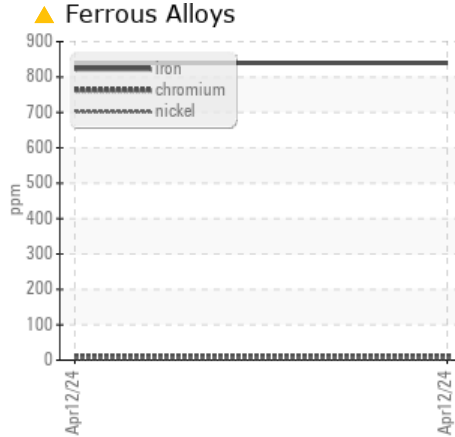
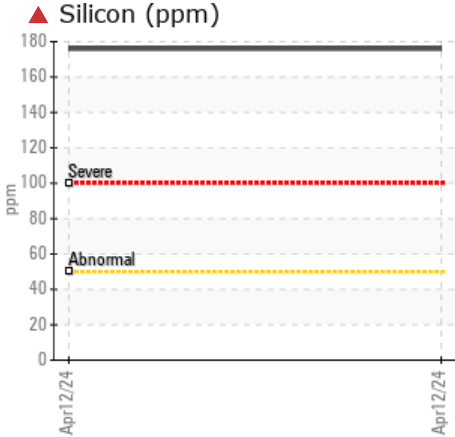
**DIRT**



Area  
**[W02008185]**  
 Machine Id  
**VOLVO A30F 82248**  
 Component  
**Rear Axle**  
 Fluid  
**{not provided} (11 GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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. ( Customer Sample Comment: W02008185 )

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	---	---
Iron	ppm	ASTM D5185m	>630	<b>▲ 840</b>	---	---
Silicon	ppm	ASTM D5185m	>50	<b>▲ 176</b>	---	---

Customer Id: VOLVO0002  
 Sample No.: ML0001603  
 Lab Number: 06150757  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

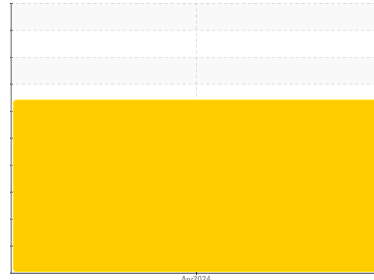
Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Area  
**[W02008185]**  
 Machine Id  
**VOLVO A30F 82248**  
 Component  
**Rear Axle**  
 Fluid  
**{not provided} (11 GAL)**



## DIAGNOSIS

### ▲ Recommendation

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. ( Customer Sample Comment: W02008185 )

### ▲ Wear

Gear wear is indicated.

### ▲ Contamination

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		<b>ML0001603</b>	---	---
Sample Date	Client Info		<b>12 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>14578</b>	---	---
Oil Age	hrs	Client Info	<b>2000</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>630	<b>▲ 840</b>	---
Chromium	ppm	ASTM D5185m	>15	<b>9</b>	---
Nickel	ppm	ASTM D5185m	>8	<b>5</b>	---
Titanium	ppm	ASTM D5185m		<b>5</b>	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m	>10	<b>43</b>	---
Lead	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>50	<b>24</b>	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>186</b>	---
Barium	ppm	ASTM D5185m		<b>3</b>	---
Molybdenum	ppm	ASTM D5185m		<b>5</b>	---
Manganese	ppm	ASTM D5185m		<b>6</b>	---
Magnesium	ppm	ASTM D5185m		<b>30</b>	---
Calcium	ppm	ASTM D5185m		<b>131</b>	---
Phosphorus	ppm	ASTM D5185m		<b>992</b>	---
Zinc	ppm	ASTM D5185m		<b>75</b>	---
Sulfur	ppm	ASTM D5185m		<b>54419</b>	---

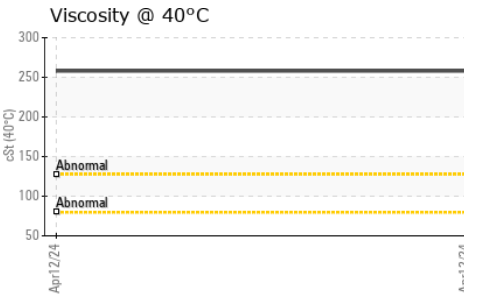
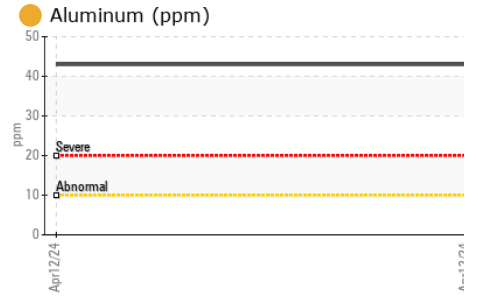
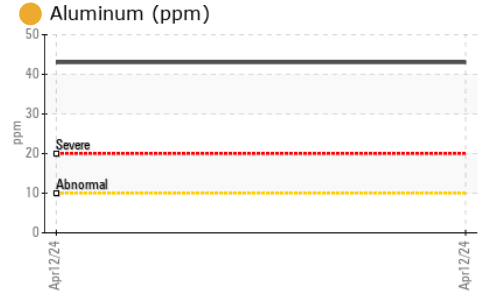
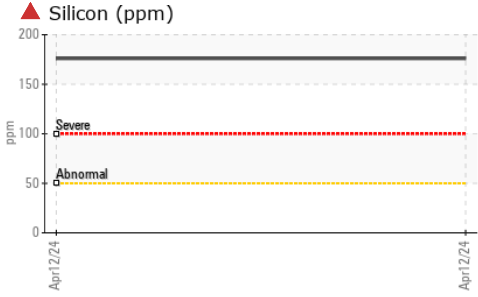
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>▲ 176</b>	---
Sodium	ppm	ASTM D5185m		<b>8</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	---

## VISUAL

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

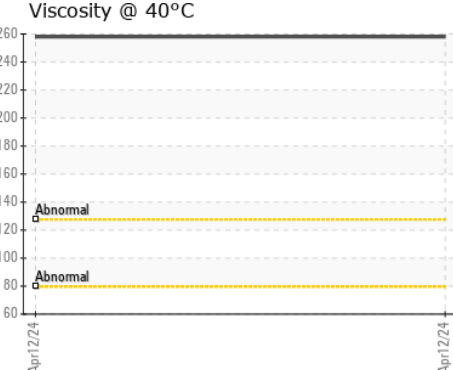
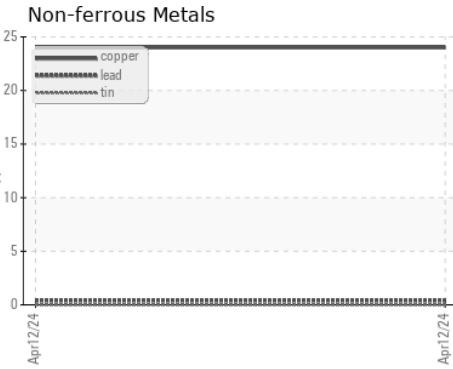
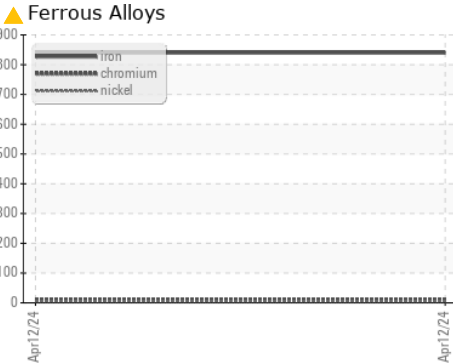
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		<b>258</b>	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001603  
**Lab Number** : **06150757**  
**Unique Number** : 10980835  
**Test Package** : CONST

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110

Contact: MIKE MAYHUGH  
 MMYAHUGH@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)

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