

# **PROBLEM SUMMARY**

Sample Rating Trend

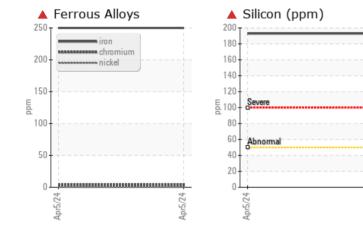


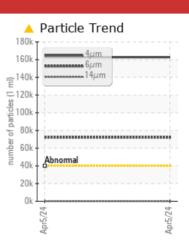
Machine Id VOLVO EC210C 140029

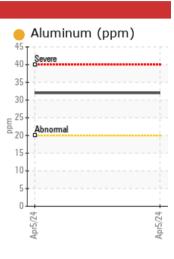
Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- QTS)

# COMPONENT CONDITION SUMMARY







WEAR

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

# PROBLEMATIC TEST RESULTS

Apr5/24

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE			
Iron	ppm	ASTM D5185m	>25	<b>4</b> 250			
Silicon	ppm	ASTM D5185m	>50	<b>1</b> 93			
Particles >4µm		ASTM D7647	>40000	<u> </u>			
Particles >6µm		ASTM D7647	>10000	<u> </u>			
Oil Cleanliness		ISO 4406 (c)	>22/20/18	<u> </u>			

Customer Id: VOLVO1023 Sample No.: ML0000214 Lab Number: 06142179 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED A	CTIONS	IONS					
-	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
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



Machine Id VOLVO EC210C 140029 Component Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- QT

## DIAGNOSIS

#### Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### 🔺 Wear

The iron level is severe.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SO 46 ( QTS)				Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0000214		
Sample Date		Client Info		05 Apr 2024		
Achine Age	hrs	Client Info		9633		
Dil Age	hrs	Client Info		327		
Dil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>25	<b>4</b> 250		
Chromium	ppm	ASTM D5185m	>10	4		
lickel	ppm	ASTM D5185m	>10	<1		
ītanium	ppm	ASTM D5185m		4		
Silver	ppm	ASTM D5185m		<1		
Numinum	ppm	ASTM D5185m	>20	<u> </u>		
ead	ppm	ASTM D5185m	>20	3		
Copper	ppm	ASTM D5185m	>150	48		
īn	ppm	ASTM D5185m	>10	2		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<1		
Barium	ppm	ASTM D5185m	5	<1		
/lolybdenum	ppm	ASTM D5185m	5	2		
langanese	ppm	ASTM D5185m		2		
lagnesium	ppm	ASTM D5185m	25	11		
Calcium	ppm	ASTM D5185m	200	187		
hosphorus	ppm	ASTM D5185m	300	504		
linc	ppm	ASTM D5185m	370	595		
Sulfur	ppm	ASTM D5185m	2500	2030		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>▲</b> 193		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	11		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>40000	<b>162704</b>		
Particles >6µm		ASTM D7647	>10000	<u> </u>		
Particles >14µm		ASTM D7647	>2500	117		
Particles >21µm		ASTM D7647	>640	12		
Particles >38µm		ASTM D7647	>160	0		
Particles >71µm		ASTM D7647	>40	0		
Dil Cleanliness		ISO 4406 (c)	>22/20/18	<b>25/23/14</b>		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.28		
				<b>•</b> • • • • •		

Report Id: VOLVO1023 [WUSCAR] 06142179 (Generated: 04/11/2024 15:08:39) Rev: 1

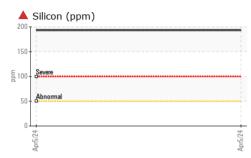
Contact/Location: KELLI LEWIS - VOLVO1023 Page 3 of 4

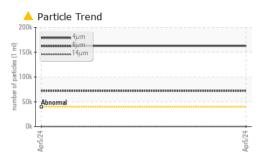
WEAR

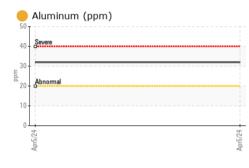
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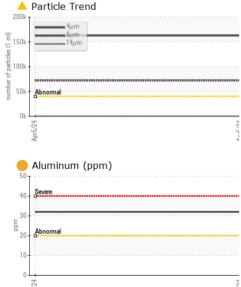


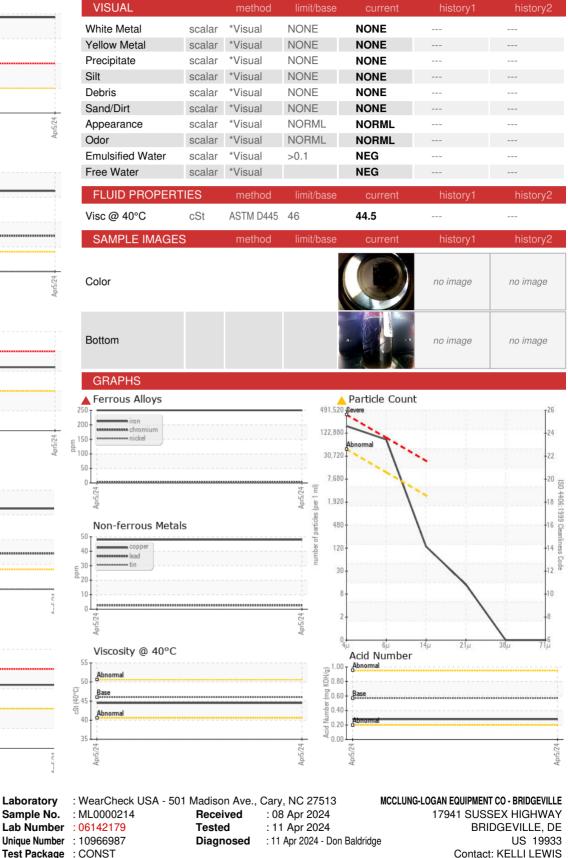
# **OIL ANALYSIS REPORT**











Test Package : CONST To discuss this sample report, contact Customer Service at 1-800-237-1369.

Laboratory

Sample No.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

klewis@mcclung-logan.com T: F: (302)337-9083

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: VOLVO1023 [WUSCAR] 06142179 (Generated: 04/11/2024 15:08:39) Rev: 1

Certificate 12367

Contact/Location: KELLI LEWIS - VOLVO1023