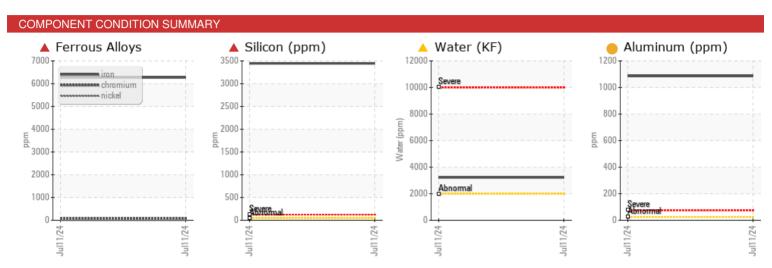
WEAR



Area [W02008458] WOLVO ECR355 310021

Left Gearbox Fluid GEAR OIL SAE 85W140 (--- GAL)



PROBLEM SUMMARY

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>200	6272				
Chromium	ppm	ASTM D5185m	>10	A 72				
Silicon	ppm	ASTM D5185m	>50	▲ 3444				
Water	%	ASTM D6304	>0.2	A 0.322				
ppm Water	ppm	ASTM D6304	>2000	A 3220				
Emulsified Water	scalar	*Visual	>0.2	6.2%				

Customer Id: VOLVO0002 Sample No.: ML0002414 Lab Number: 06237203 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 customerservice@wearcheck.com

RECOMMENDED AG	RECOMMENDED ACTIONS					
Action Inspect Wear Source	Status	Date	Done By	Description We advise that you inspect for the source(s) of wear.		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been 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



WEAR



OIL ANALYSIS REPORT

[W02008458] W0LVO ECR355 310021

Left Gearbox Fluid GEAR OIL SAE 85W140 (--- GAL)

DIAGNOSIS

Recommendation

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

🔺 Wear

The iron and chrome levels are severe. Gear wear is indicated.

Contamination

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

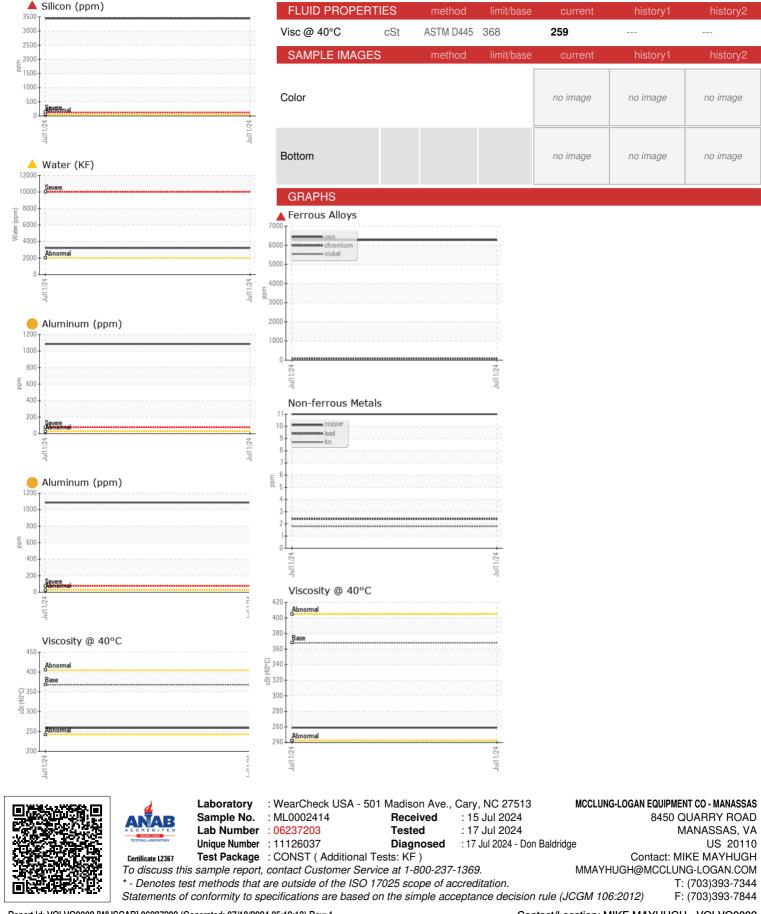
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002414		
Sample Date		Client Info		11 Jul 2024		
Machine Age	hrs	Client Info		5994		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6272		
Chromium	ppm	ASTM D5185m	>10	A 72		
Nickel	ppm	ASTM D5185m	>10	5		
Titanium	ppm	ASTM D5185m		81		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>		
Lead	ppm	ASTM D5185m	>50	2		
Copper	ppm	ASTM D5185m		- 11		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m	210	3		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	22		
Barium	ppm	ASTM D5185m	200	6		
Molybdenum	ppm	ASTM D5185m	12	8		
Manganese	ppm	ASTM D5185m		57		
Magnesium	ppm	ASTM D5185m	12	172		
Calcium	ppm	ASTM D5185m	150	2233		
Phosphorus	ppm	ASTM D5185m	1650	912		
Zinc	ppm	ASTM D5185m	125	956		
Sulfur	ppm	ASTM D5185m	22500	24427		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3 444		
Sodium	ppm	ASTM D5185m		82		
Potassium	ppm	ASTM D5185m	>20	297		
Water	%	ASTM D510301		▲ 0.322		
ppm Water	ppm	ASTM D0304	>2000	▲ 3220		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
			INCI UVIL			
Emulsified Water Free Water	scalar scalar	*Visual *Visual	>0.2	▲ 0.2% NEG		



OIL ANALYSIS REPORT



Contact/Location: MIKE MAYHUGH - VOLVO0002