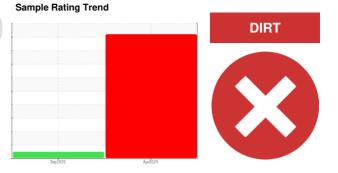
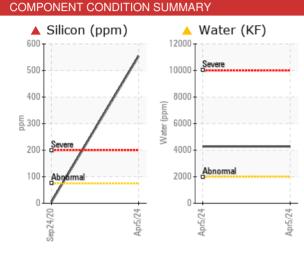


PROBLEM SUMMARY

VOLVO EC160EL 310125

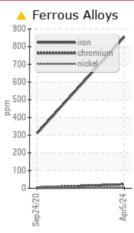


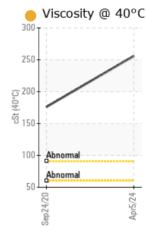
VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)

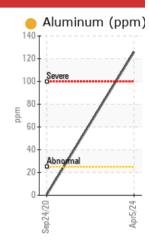


Machine Id

Rear Right Final Drive







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. (Customer Sample Comment: 85w-140. Changed to GO102 75w-80)

PROBLEMATIC TEST RESULTS Sample Status SEVERE NORMAL ASTM D5185m >500 855 310 Iron ppm Chromium ASTM D5185m >10 4 ppm Silicon 5 ASTM D5185m >75 554 ppm Water % ASTM D6304 >0.2 0.428 **4280** ASTM D6304 >2000 ppm Water ppm **Emulsified Water** scalar *Visual >0.2 **0.2%** NEG

Customer Id: VOLVO8882 Sample No.: ML0001449 Lab Number: 06150729 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	bns						
Action Resample	Status	Date	Done By	Description 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

24 Sep 2020 Diag: Don Baldridge 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





OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

 \mathbf{X}



VOLVO EC160EL 310125

Rear Right Final Drive

VOLVO SUPER GEAR OIL 75W-80-GO102 (--- 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. (Customer Sample Comment: 85w-140. Changed to GO102 75w-80)

A Wear

Gear wear is indicated.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

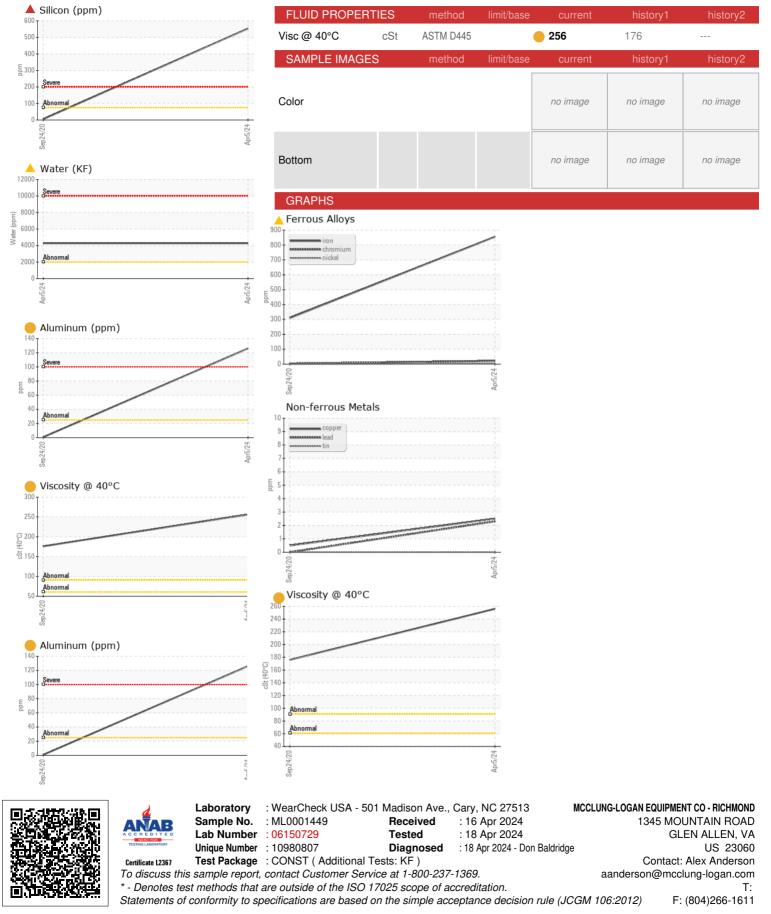
SAMPLE INFORM		method	limit/base	ourropt	historyd	history2
	ATION		iiiiii/base	current	history1	TIIStOryz
Sample Number		Client Info		ML0001449	VCP293406	
Sample Date	lava	Client Info		05 Apr 2024	24 Sep 2020	
Machine Age	hrs	Client Info		2260	1019 0	
Oil Age	hrs	Client Info		1000 Ohannad		
Oil Changed		Client Info		Changed	N/A	
Sample Status				SEVERE	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<u> </u>	310	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	4	
Nickel	ppm	ASTM D5185m	>10	3	0	
Titanium	ppm	ASTM D5185m		8	0	
Silver	ppm	ASTM D5185m		<1	<1	
Aluminum	ppm	ASTM D5185m	>25	<mark> </mark> 126	<1	
_ead	ppm	ASTM D5185m	>25	2	0	
Copper	ppm	ASTM D5185m	>50	2	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m	>5		0	
Vanadium	ppm	ASTM D5185m		1	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm		line it //s a sec		-	history O
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		100	14	
Barium	ppm	ASTM D5185m		3	0	
Molybdenum	ppm	ASTM D5185m		2	<1	
Vanganese	ppm	ASTM D5185m		12	3	
Magnesium	ppm	ASTM D5185m		18	2	
Calcium	ppm	ASTM D5185m		94	34	
Phosphorus	ppm	ASTM D5185m		987	413	
Zinc	ppm	ASTM D5185m		38	26	
Sulfur	ppm	ASTM D5185m		37178	15793	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	5 54	5	
Sodium	ppm	ASTM D5185m		26	2	
Potassium	ppm	ASTM D5185m	>20	51	2	
Water	%	ASTM D6304	>0.2	6 0.428		
opm Water	ppm	ASTM D6304	>2000	▲ 4280		
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	MODER	NONE	
Debris	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	scalar		NORML		NORML	
Appearance		*Visual		NORML NORML		
Odor	scalar	*Visual	NORML		NORML	
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	
Free Water (1/:30) Rev: 1	scalar	*Visual		NEG Submit	NEG ted By: Service	Alex Anderso

Report Id: VOLVO8882 [WUSCAR] 06150729 (Generated: 04/18/2024 16:07:30) Rev: 1

Submitted By: Service - Alex Anderson



OIL ANALYSIS REPORT



Report Id: VOLVO8882 [WUSCAR] 06150729 (Generated: 04/18/2024 16:07:30) Rev: 1

Submitted By: Service - Alex Anderson

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