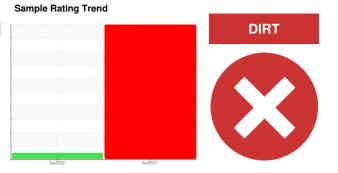


PROBLEM SUMMARY

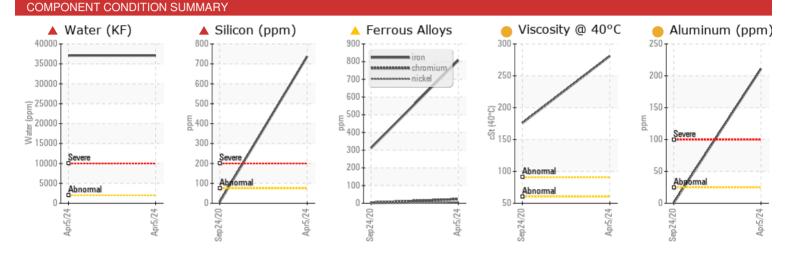
VOLVO EC160EL 310125



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

Machine Id

Rear Left Final Drive



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Oil appears to have heavy water contamination. 85w-140. Changed to GO102 75w-80.)

PROBLEMATIC TEST RESULTS

The been when the test he been a							
Sample Status				SEVERE	NORMAL		
Iron	ppm	ASTM D5185m	>500	<u> </u>	312		
Chromium	ppm	ASTM D5185m	>10	A 23	3		
Silicon	ppm	ASTM D5185m	>75	A 737	6		
Water	%	ASTM D6304	>0.2	4 3.71			
ppm Water	ppm	ASTM D6304	>2000	4 37100			
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG		

Customer Id: VOLVO8882 Sample No.: ML0001450 Lab Number: 06150695 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS						
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



Machine Id VOLVO EC160EL 310125

Rear Left Final Drive

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

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Oil appears to have heavy water contamination. 85w-140. Changed to GO102 75w-80.)

A Wear

Gear wear is indicated.

Contamination

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

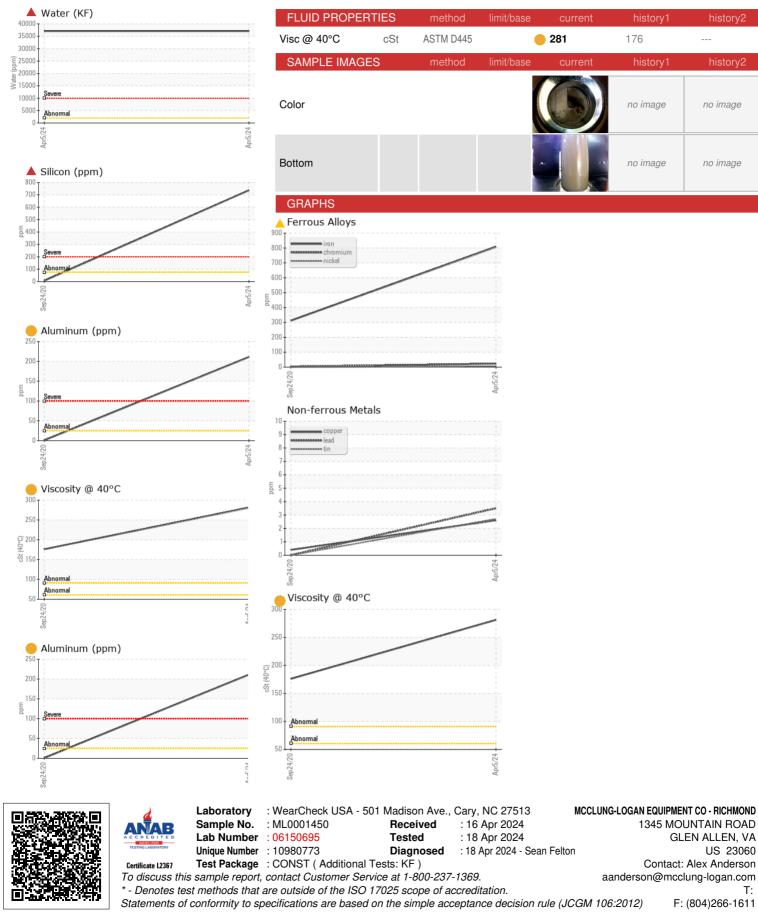
Fluid Condition

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

75W-60-GO 102 (GAL)		Sep2020	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001450	VCP293407	
Sample Date		Client Info		05 Apr 2024	24 Sep 2020	
Aachine Age	hrs	Client Info		2260	1019	
Dil Age	hrs	Client Info		1000	0	
Dil Changed		Client Info		Changed	N/A	
Sample Status				SEVERE	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	A 807	312	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	3	
lickel	ppm	ASTM D5185m	>10	5	0	
ītanium	ppm	ASTM D5185m		14	0	
Silver	ppm	ASTM D5185m		1	0	
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	<1	
ead	ppm	ASTM D5185m	>25	4	0	
Copper	ppm	ASTM D5185m	>50	3	<1	
-in	ppm	ASTM D5185m	>10	3	0	
Antimony	ppm	ASTM D5185m	>5		0	
/anadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		1	0	
ADDITIVES	pp		limit/base			
		method	iimii/base		history1	history2
Boron	ppm	ASTM D5185m		111	12	
Barium	ppm	ASTM D5185m		4	0	
/lolybdenum	ppm	ASTM D5185m		2	<1	
langanese	ppm	ASTM D5185m		12	3	
lagnesium	ppm	ASTM D5185m		36	2	
Calcium	ppm	ASTM D5185m		179	7	
hosphorus	ppm	ASTM D5185m		1215	397	
Zinc	ppm	ASTM D5185m		65	15	
Sulfur	ppm	ASTM D5185m		32785	15360	
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	A 737	6	
Sodium	ppm	ASTM D5185m		25	2	
Potassium	ppm	ASTM D5185m	>20	41	2	
Vater	%	ASTM D6304	>0.2	3.71		
opm Water	ppm	ASTM D6304	>2000	37100		
VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	LIGHT	
ellow 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	
ppearance	scalar	*Visual	NORML	– MILKY	NORML	
Ddor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	
Free Water 43:03) Rev: 1	scalar	*Visual		NEG	NEG ted By: Service	- Alex Anderso



OIL ANALYSIS REPORT



Report Id: VOLVO8882 [WUSCAR] 06150695 (Generated: 04/18/2024 14:43:03) Rev: 1

Submitted By: Service - Alex Anderson

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