

PROBLEM SUMMARY

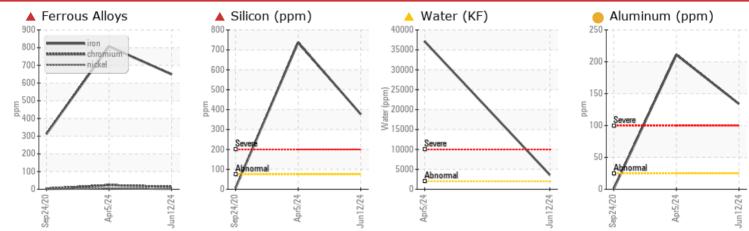
Sample Rating Trend WEAR

Machine Id VOLVO EC160EL 310125

Rear Left Final Drive

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

COMPONENT CONDITION SUMMARY



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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

THODELMAND TEST HESSETS						
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>500	649	A 807	312
Chromium	ppm	ASTM D5185m	>10	1 3	A 23	3
Silicon	ppm	ASTM D5185m	>75	4 377	A 737	6
Water	%	ASTM D6304	>0.2	6 0.362	3 .71	
ppm Water	ppm	ASTM D6304	>2000	<u> </u>	▲ 37100	
Emulsified Water	scalar	*Visual	>0.2	6.2%	▲ 0.2%	NEG

Customer Id: VOLVO8882 Sample No.: ML0001800 Lab Number: 06210970 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>

RECOM	IMENDED	ACTIONS
		ACTIONS

Action	Status	Date	Done By	Description	
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.	
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.	
Check Water Access			?	We advise that you check for the source of water entry.	

HISTORICAL DIAGNOSIS



05 Apr 2024 Diag: Sean Felton

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.Gear wear is indicated. Appearance is milky. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.



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.







OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

 \mathbf{X}

Machine Id VOLVO EC160EL 310125

Rear Left Final Drive

VOLVO SUPER GEAR OIL 75W-80-GO102 (

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

Gear wear is indicated.

Contamination

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

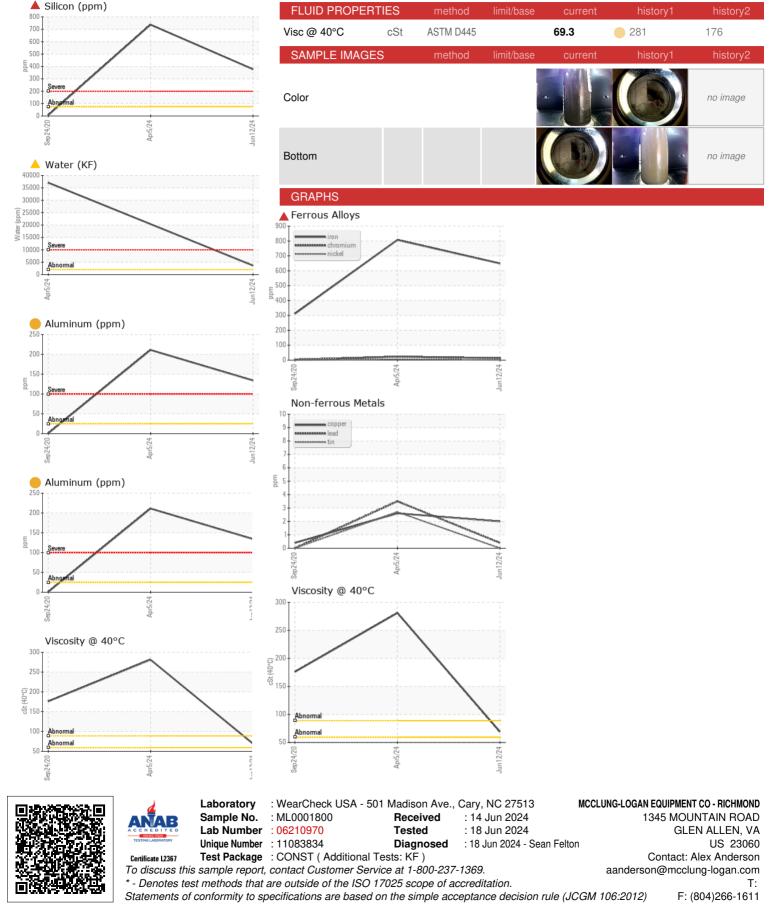
Fluid Condition

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

GAL)	Sapilazo Aprilaz4 Junilaz4					
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001800	ML0001450	VCP293407
Sample Date		Client Info		12 Jun 2024	05 Apr 2024	24 Sep 2020
Machine Age	hrs	Client Info		2347	2260	1019
Dil Age	hrs	Client Info		87	1000	0
Dil Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	6 49	8 07	312
Chromium	ppm	ASTM D5185m	>10	1 3	A 23	3
lickel	ppm	ASTM D5185m	>10	<1	5	0
ītanium	ppm	ASTM D5185m		10	14	0
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>25	1 34	211	<1
_ead	ppm	ASTM D5185m	>25	<1	4	0
Copper	ppm	ASTM D5185m		2	3	<1
Tin	ppm	ASTM D5185m		0	3	0
Antimony		ASTM D5185m				0
/anadium	ppm	ASTM D5185m	>0	 <1	<1	0
	ppm					
Cadmium	ppm	ASTM D5185m		<1	1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		80	111	12
Barium	ppm	ASTM D5185m		0	4	0
Nolybdenum	ppm	ASTM D5185m		1	2	<1
Nanganese	ppm	ASTM D5185m		7	12	3
<i>A</i> agnesium	ppm	ASTM D5185m		7	36	2
Calcium	ppm	ASTM D5185m		31	179	7
Phosphorus	ppm	ASTM D5185m		1996	1215	397
Zinc	ppm	ASTM D5185m		55	65	15
Sulfur	ppm	ASTM D5185m		28387	32785	15360
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	377	A 737	6
Sodium	ppm	ASTM D5185m		9	25	2
otassium	ppm	ASTM D5185m	>20	28	41	2
Vater	%	ASTM D6304	>0.2	<u> </u>	3 .71	
opm Water	ppm	ASTM D6304	>2000	A 3620	A 37100	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
						NORML
Appearance	scalar	*Visual	NORML	HAZY	MILKY	NUDIVIL
••	scalar scalar	*Visual *Visual	NORML	HAZY		
Appearance Odor Emulsified Water	scalar scalar scalar	*Visual *Visual *Visual	NORML >0.2	HAZY NORML	NORML	NORML



OIL ANALYSIS REPORT



Report Id: VOLVO8882 [WUSCAR] 06210970 (Generated: 06/22/2024 05:36:37) Rev: 1

Submitted By: Service - Alex Anderson

Page 4 of 4