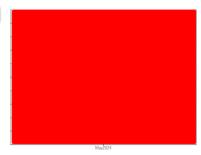


## **PROBLEM SUMMARY**

Sample Rating Trend





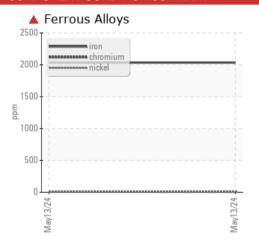
Machine Id

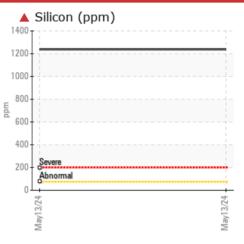
# **VOLVO EC160E 310212**

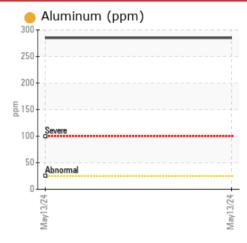
**Left Final Drive** 

GEAR OIL SAE 80W140 (--- GAL)

### COMPONENT CONDITION 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	>500	<b>2035</b>					
Chromium	ppm	ASTM D5185m	>10	<u> </u>					
Silicon	ppm	ASTM D5185m	>75	<b>1238</b>					

Customer Id: VOLVO1023 **Sample No.:** ML0001742 Lab Number: 06185294 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 customerservice@wearcheck.com

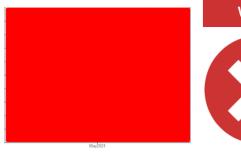
RECOMMENDED ACTIONS							
Action Inspect Wear Source	Status 	Date 	Done By	<b>Description</b> We advise that you inspect for the source(s) of wear.			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.			

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id

# **VOLVO EC160E 310212**

**Left Final Drive** 

GEAR OIL SAE 80W140 (--- 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

Gear wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

#### **Fluid Condition**

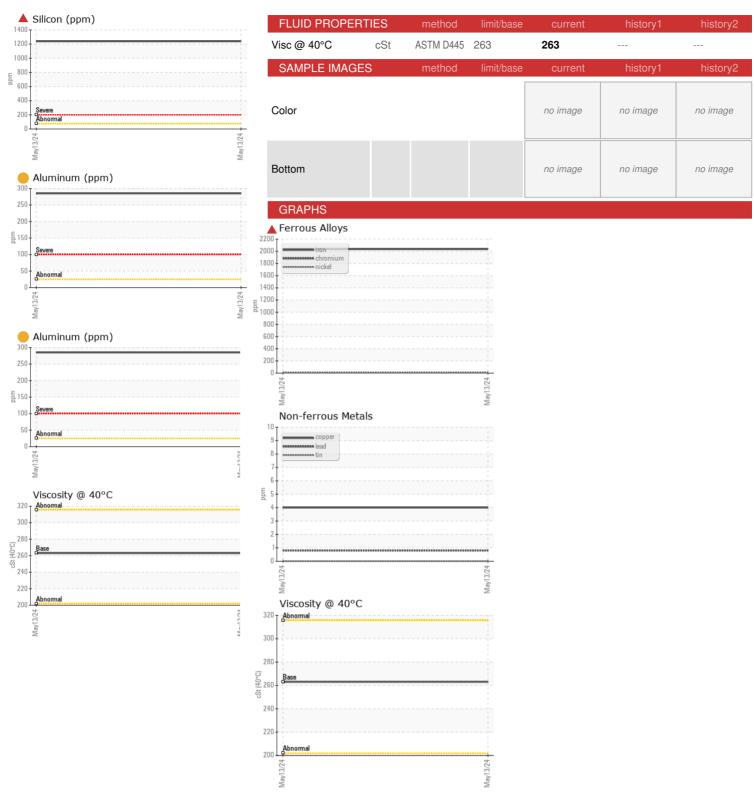
The oil is no longer serviceable due to the presence of contaminants.

				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001742		
Sample Date		Client Info		13 May 2024		
Machine Age	hrs	Client Info		6230		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>2035</b>		
Chromium	ppm	ASTM D5185m	>10	<u> </u>		
Nickel	ppm	ASTM D5185m	>10	9		
Titanium	ppm	ASTM D5185m		24		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	<u>285</u>		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	4		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	133		
Barium	ppm	ASTM D5185m	200	0		
Molybdenum	ppm	ASTM D5185m	12	2		
Manganese	ppm	ASTM D5185m		12		
Magnesium	ppm	ASTM D5185m	12	40		
Calcium	ppm	ASTM D5185m	150	294		
Phosphorus	ppm	ASTM D5185m	1650	1607		
Zinc	ppm	ASTM D5185m	125	120		
Sulfur	ppm	ASTM D5185m	22500	32928		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>75	<b>1238</b>		
Sodium	ppm	ASTM D5185m		30		
Potassium	ppm	ASTM D5185m	>20	80		
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		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		

Contact/Location: MATT CLARK - VOLVO1023



### **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. : ML0001742 Lab Number : 06185294 Unique Number : 11036620 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 May 2024 : 22 May 2024 **Tested** Diagnosed

: 22 May 2024 - Sean Felton

17941 SUSSEX HIGHWAY BRIDGEVILLE, DE

MCCLUNG-LOGAN EQUIPMENT CO - BRIDGEVILLE

US 19933 Contact: MATT CLARK

To discuss this sample report, contact Customer Service at 1-800-237-1369. MCLARK@mcclung-logan.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T: (302)337-3400 F: (302)337-9083 Contact/Location: MATT CLARK - VOLVO1023