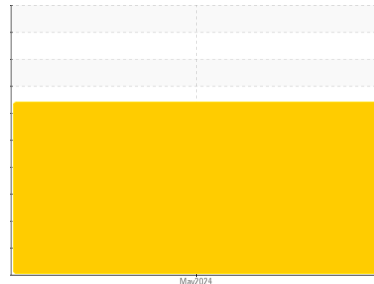


PROBLEM SUMMARY

Sample Rating Trend

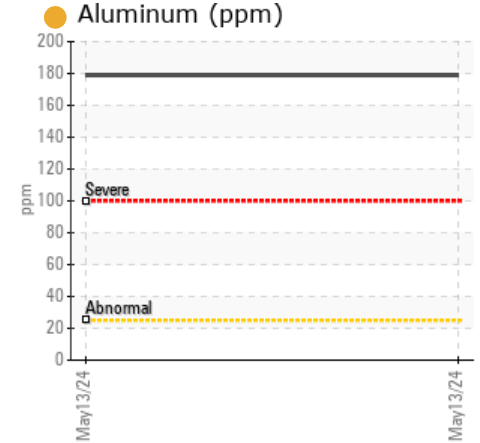
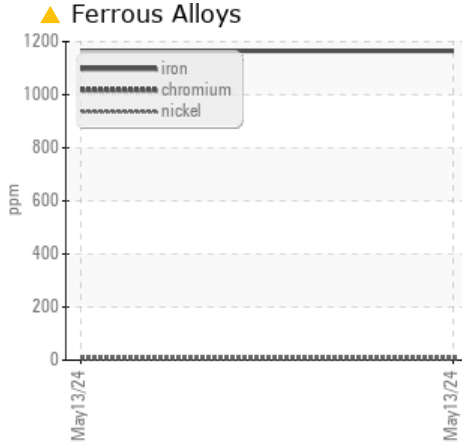
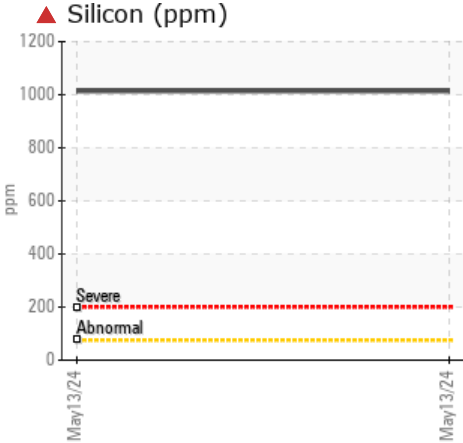


DIRT



Machine Id
VOLVO EC160E 310212
 Component
Right Final Drive
 Fluid
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 recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	▲ 1165	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 1014	---	---

Customer Id: VOLVO1023
 Sample No.: ML0001743
 Lab Number: 06185293
 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

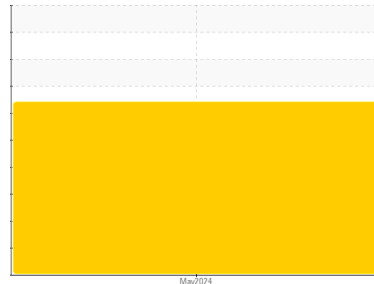
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
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



DIRT



Machine Id
VOLVO EC160E 310212
 Component
Right Final Drive
 Fluid
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 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			ML0001743	---	---
Sample Date	Client Info			13 May 2024	---	---
Machine Age	hrs	Client Info		6230	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			Not Chngd	---	---
Sample Status				SEVERE	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	---	---

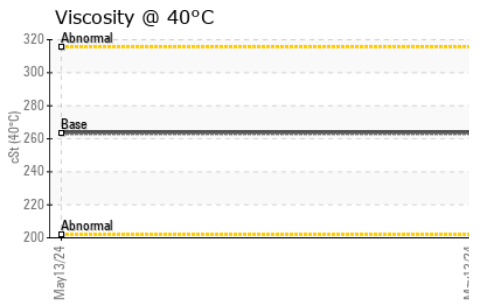
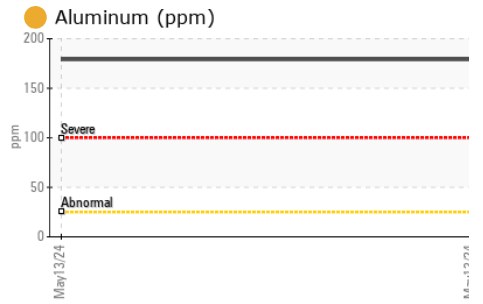
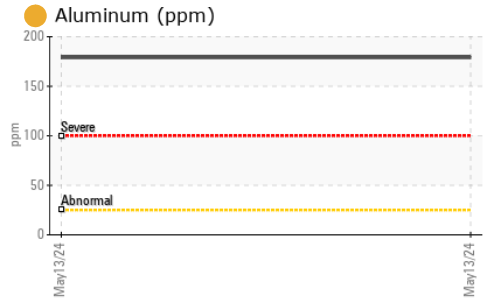
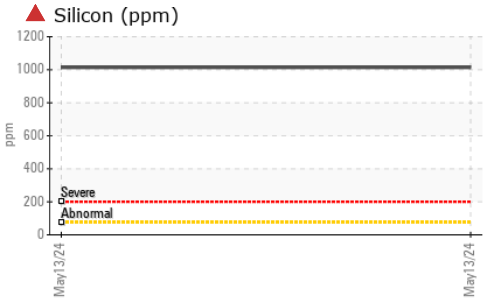
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ 1165	---	---
Chromium	ppm	ASTM D5185m	>10	7	---	---
Nickel	ppm	ASTM D5185m	>10	9	---	---
Titanium	ppm	ASTM D5185m		15	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>25	● 179	---	---
Lead	ppm	ASTM D5185m	>25	<1	---	---
Copper	ppm	ASTM D5185m	>50	2	---	---
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	89	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	1	---	---
Manganese	ppm	ASTM D5185m		7	---	---
Magnesium	ppm	ASTM D5185m	12	21	---	---
Calcium	ppm	ASTM D5185m	150	200	---	---
Phosphorus	ppm	ASTM D5185m	1650	1182	---	---
Zinc	ppm	ASTM D5185m	125	89	---	---
Sulfur	ppm	ASTM D5185m	22500	24656	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 1014	---	---
Sodium	ppm	ASTM D5185m		16	---	---
Potassium	ppm	ASTM D5185m	>20	48	---	---

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	MODER	---	---
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	---	---

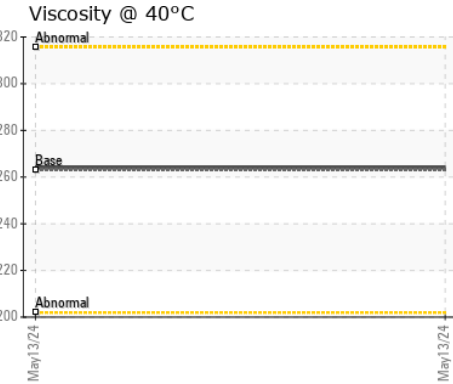
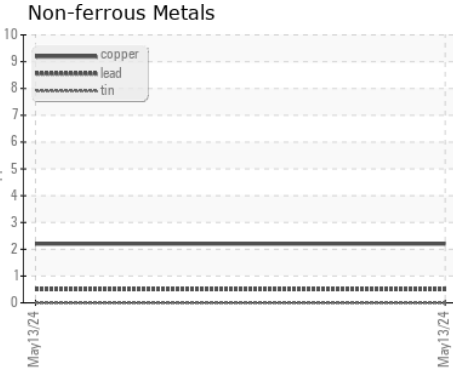
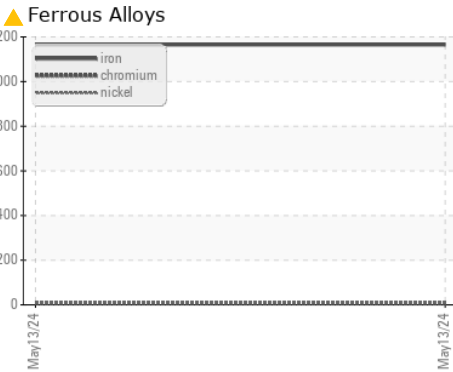
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 263	264	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001743
Lab Number : 06185293
Unique Number : 11036619
Test Package : CONST

Received : 20 May 2024
Tested : 22 May 2024
Diagnosed : 22 May 2024 - Sean Felton

McCLUNG-LOGAN EQUIPMENT CO - BRIDGEVILLE
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