



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
EXCAVATION CAROL [BT402980]

Machine Id
VOLVO ECR355EL 314094

Component
Front Left Final Drive

Fluid
{not provided} (--- GAL)

RECOMMENDATION

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. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

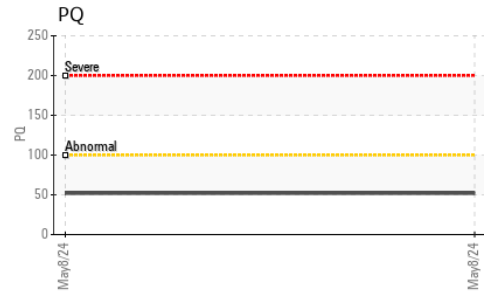
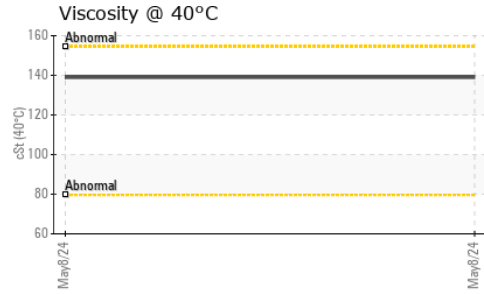
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP430111	---	---
Sample Date		Client Info		08 May 2024	---	---
Machine Age	hrs	Client Info		5020	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

PQ		ASTM D8184*		52	---	---
Iron	ppm	ASTM D5185(m)	>500	▲ 1905	---	---
Chromium	ppm	ASTM D5185(m)	>10	20	---	---
Nickel	ppm	ASTM D5185(m)	>10	1	---	---
Titanium	ppm	ASTM D5185(m)		4	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	79	---	---
Lead	ppm	ASTM D5185(m)	>25	0	---	---
Copper	ppm	ASTM D5185(m)	>50	3	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

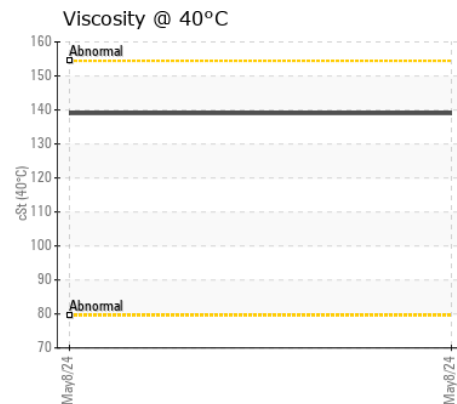
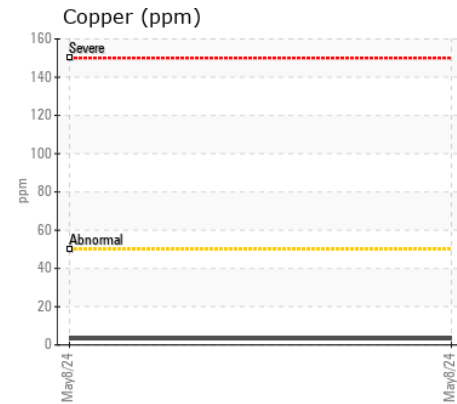
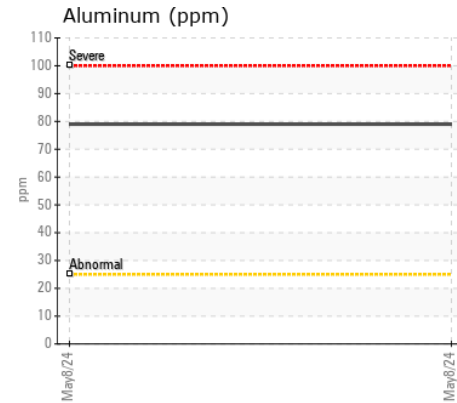
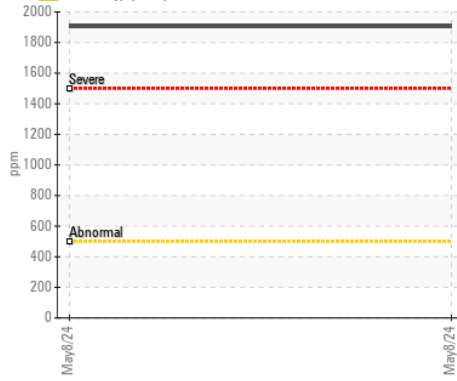
Silicon	ppm	ASTM D5185(m)	>75	293	---	---
Potassium	ppm	ASTM D5185(m)	>20	27	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

Sodium	ppm	ASTM D5185(m)		62	---	---
Boron	ppm	ASTM D5185(m)		104	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		<1	---	---
Manganese	ppm	ASTM D5185(m)		11	---	---
Magnesium	ppm	ASTM D5185(m)		14	---	---
Calcium	ppm	ASTM D5185(m)		70	---	---
Phosphorus	ppm	ASTM D5185(m)		1943	---	---
Zinc	ppm	ASTM D5185(m)		30	---	---
Sulfur	ppm	ASTM D5185(m)		21279	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		139	---	---

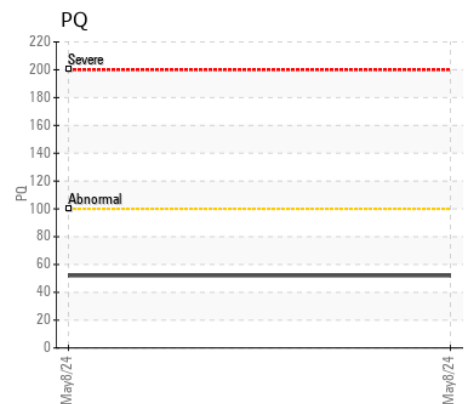
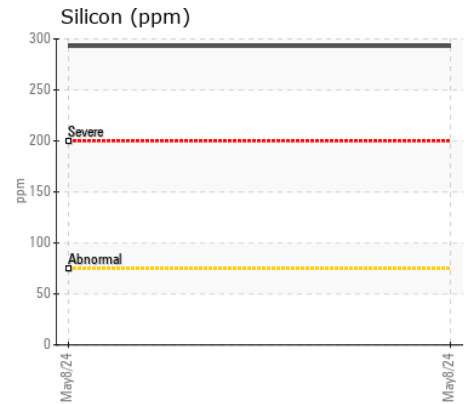
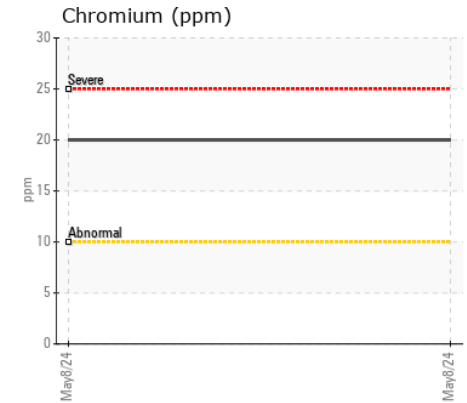
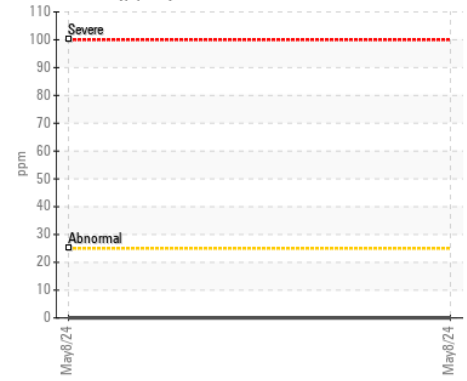
▲ Ferrous Alloys



▲ Iron (ppm)



Lead (ppm)



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP430111 **Received** : 10 May 2024
Lab Number : 02634727 **Tested** : 13 May 2024
Unique Number : 5775880 **Diagnosed** : 13 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.