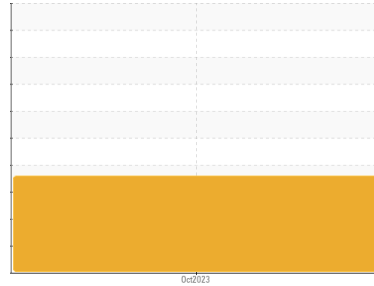




PROBLEM SUMMARY

Sample Rating Trend



DIRT

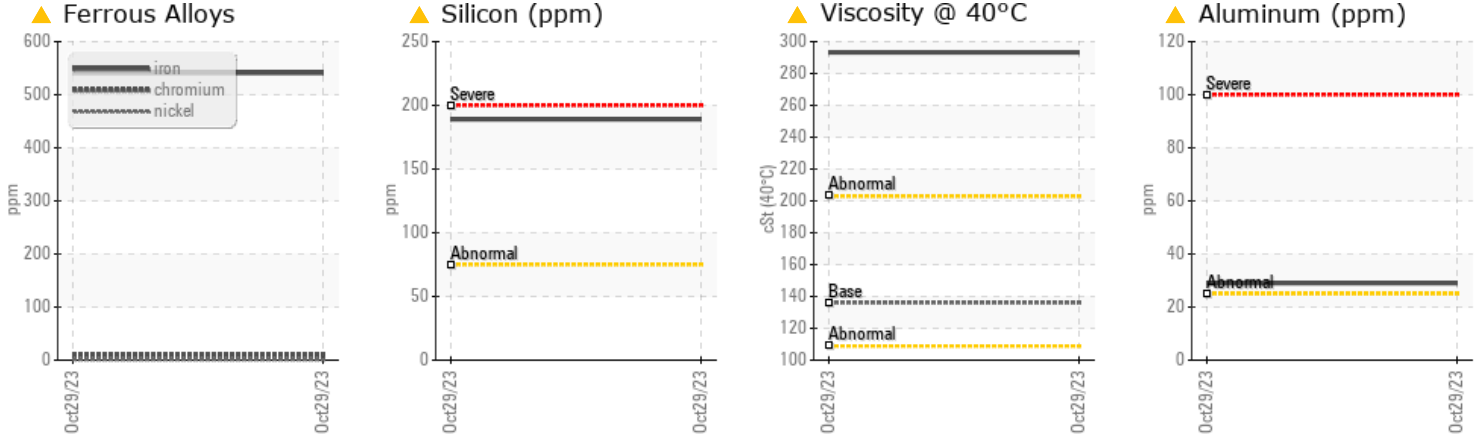


Machine Id
112002 - VOLVO EC350 EXCAVATOR (S/N 314101)

Component
Left Final Drive

Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	Value	Unit	ASTM	Limit	Result	Severe	Abnormal
Iron	541	ppm	ASTM D5185m	>500	▲ 541	---	---
Aluminum	29	ppm	ASTM D5185m	>25	▲ 29	---	---
Silicon	189	ppm	ASTM D5185m	>75	▲ 189	---	---
Visc @ 40°C	293.2	cSt	ASTM D445	136	▲ 293.2	---	---

Customer Id: CONLINNE
Sample No.: SBP0004878
Lab Number: 05993866
Test Package: FLEET



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
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
112002 - VOLVO EC350 EXCAVATOR (S/N 314101)

Component
Left Final Drive

Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Resample at the next service interval to monitor.

Wear

Gear wear is indicated.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	SBP0004878	---	---
Sample Date	Client Info	29 Oct 2023	---	---
Machine Age	hrs Client Info	2010	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >500	▲ 541	---	---
Chromium ppm	ASTM D5185m >10	9	---	---
Nickel ppm	ASTM D5185m >10	<1	---	---
Titanium ppm	ASTM D5185m	2	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >25	▲ 29	---	---
Lead ppm	ASTM D5185m >25	0	---	---
Copper ppm	ASTM D5185m >50	1	---	---
Tin ppm	ASTM D5185m >10	<1	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	131	---	---
Barium ppm	ASTM D5185m	20	---	---
Molybdenum ppm	ASTM D5185m	<1	---	---
Manganese ppm	ASTM D5185m	6	---	---
Magnesium ppm	ASTM D5185m	6	---	---
Calcium ppm	ASTM D5185m	54	---	---
Phosphorus ppm	ASTM D5185m	923	---	---
Zinc ppm	ASTM D5185m	46	---	---
Sulfur ppm	ASTM D5185m	41385	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >75	▲ 189	---	---
Sodium ppm	ASTM D5185m	7	---	---
Potassium ppm	ASTM D5185m >20	11	---	---

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	---	---

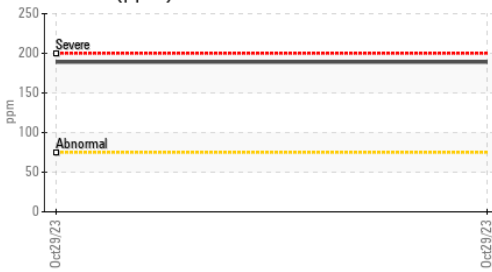
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445 136	▲ 293.2	---	---



OIL ANALYSIS REPORT

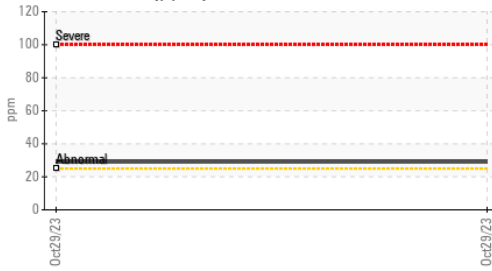
▲ Silicon (ppm)



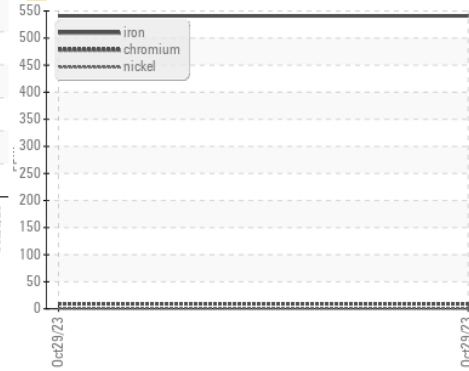
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

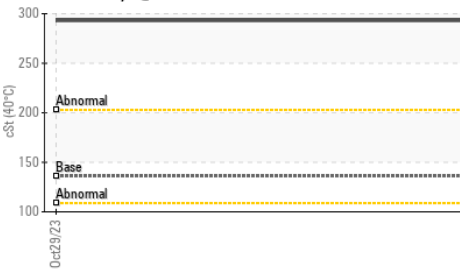
▲ Aluminum (ppm)



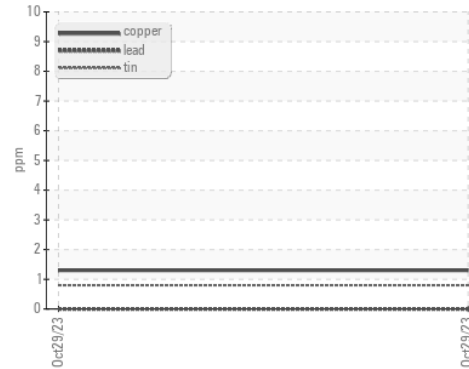
▲ Ferrous Alloys



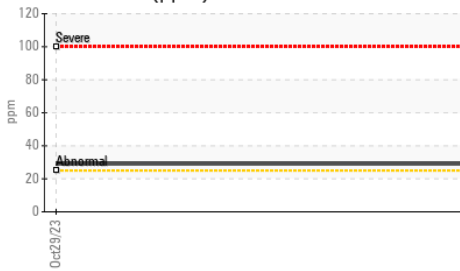
▲ Viscosity @ 40°C



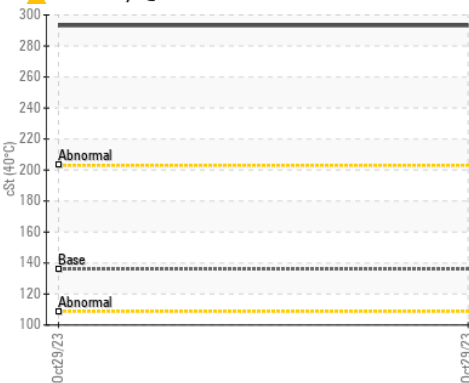
Non-ferrous Metals



▲ Aluminum (ppm)



▲ Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004878 **Received** : 30 Oct 2023
Lab Number : 05993866 **Diagnosed** : 01 Nov 2023
Unique Number : 10722226 **Diagnostician** : Sean Felton
Test Package : FLEET

Constructors Inc. - 603659
 1815 Y Street
 Lincoln, NE
 US 68508

Contact: Jack Linhart
 jackl@constructorslincoln.com
 T: (402)434-2157
 F:

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)