



PROBLEM SUMMARY

Sample Rating Trend

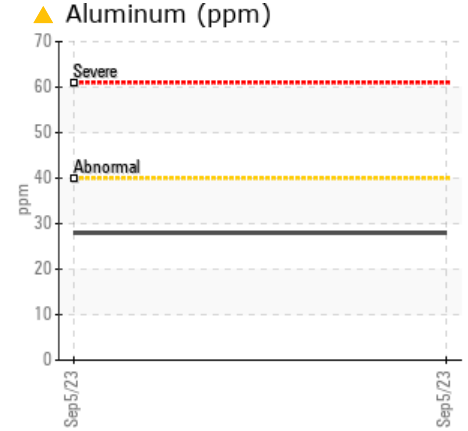
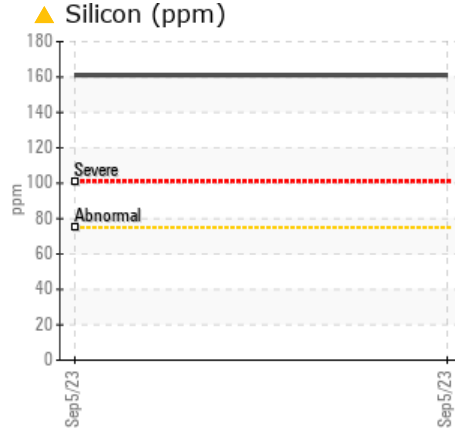
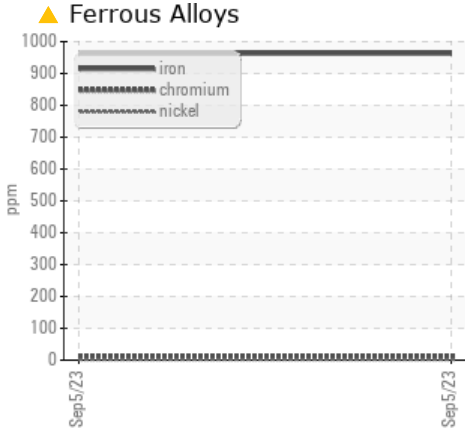


DIRT



Machine Id
40-210L
 Component
Left Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- 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				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>750	▲ 963	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 12	---	---
Aluminum	ppm	ASTM D5185m	>40	▲ 28	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 161	---	---

Customer Id: MANTUL
 Sample No.: WC0750318
 Lab Number: 05967253
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
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angela.borella@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
40-210L

Component
Left Final Drive

Fluid
GEAR OIL SAE 80W90 (--- 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

Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0750318	---	---
Sample Date	Client Info	05 Sep 2023	---	---
Machine Age	hrs Client Info	2521	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >750	▲ 963	---	---
Chromium ppm	ASTM D5185m >9	▲ 12	---	---
Nickel ppm	ASTM D5185m >10	2	---	---
Titanium ppm	ASTM D5185m	2	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >40	▲ 28	---	---
Lead ppm	ASTM D5185m >15	0	---	---
Copper ppm	ASTM D5185m >40	3	---	---
Tin ppm	ASTM D5185m >10	<1	---	---
Vanadium ppm	ASTM D5185m	<1	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 400	72	---	---
Barium ppm	ASTM D5185m 200	0	---	---
Molybdenum ppm	ASTM D5185m 12	<1	---	---
Manganese ppm	ASTM D5185m	13	---	---
Magnesium ppm	ASTM D5185m 12	3	---	---
Calcium ppm	ASTM D5185m 150	26	---	---
Phosphorus ppm	ASTM D5185m 1650	511	---	---
Zinc ppm	ASTM D5185m 125	26	---	---
Sulfur ppm	ASTM D5185m 22500	14759	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >75	▲ 161	---	---
Sodium ppm	ASTM D5185m >170	2	---	---
Potassium ppm	ASTM D5185m >20	5	---	---

VISUAL

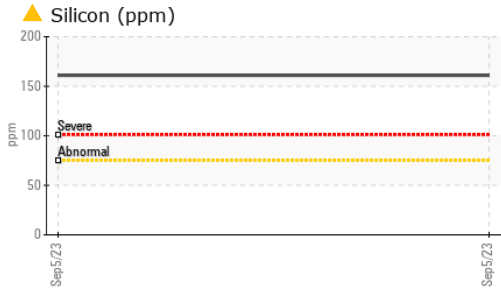
method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	NONE	---	---
Yellow Metal scalar	*Visual NONE	NONE	---	---
Precipitate scalar	*Visual NONE	NONE	---	---
Silt scalar	*Visual NONE	MODER	---	---
Debris scalar	*Visual NONE	NONE	---	---
Sand/Dirt scalar	*Visual NONE	NONE	---	---
Appearance scalar	*Visual NORML	NORML	---	---
Odor scalar	*Visual NORML	NORML	---	---
Emulsified Water scalar	*Visual >0.075	NEG	---	---
Free Water scalar	*Visual	NEG	---	---

FLUID PROPERTIES

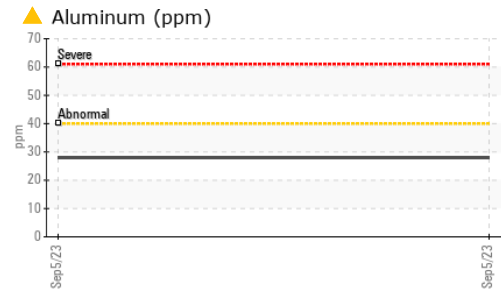
method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445 143	186	---	---



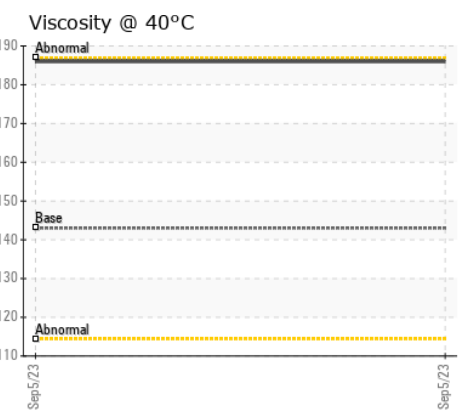
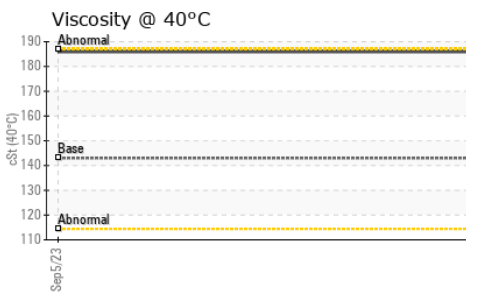
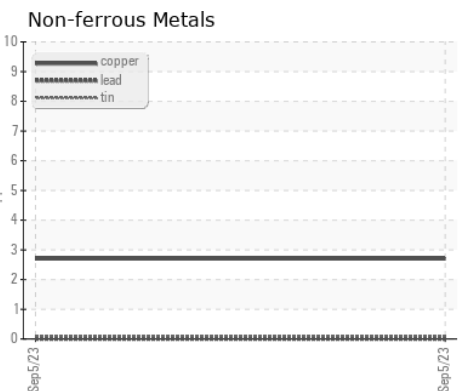
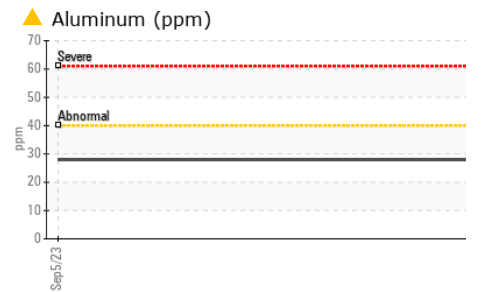
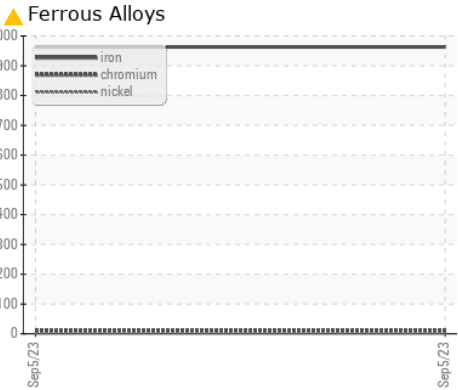
OIL ANALYSIS REPORT



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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0750318 **Received** : 02 Oct 2023
Lab Number : **05967253** **Diagnosed** : 04 Oct 2023
Unique Number : 10673804 **Diagnostician** : Angela Borella
Test Package : CONST

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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)