



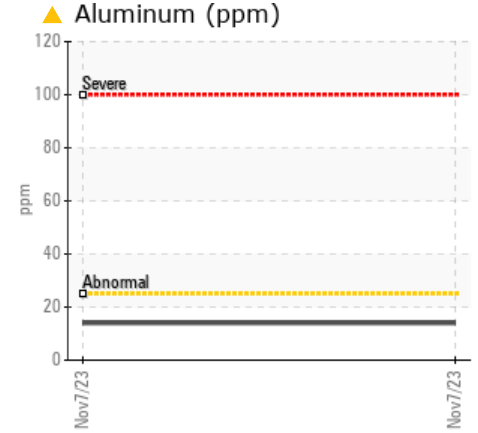
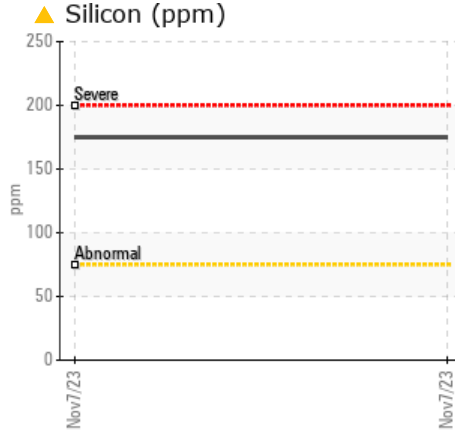
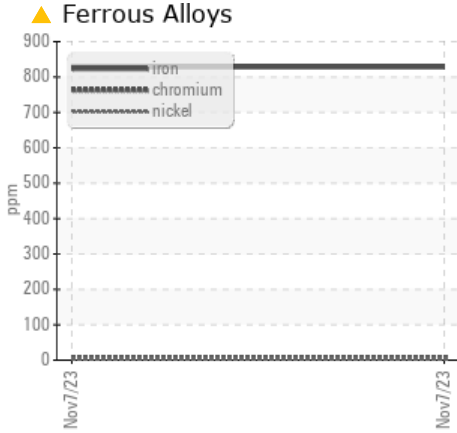
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
60172
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>500	▲ 828	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ 14	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 175	---	---

Customer Id: GREGRETN
 Sample No.: WC0867832
 Lab Number: 06013534
 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

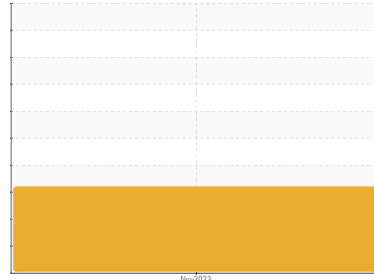
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
60172
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- QTS)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0867832	---	---
Sample Date	Client Info	07 Nov 2023	---	---
Machine Age	mls Client Info	20890	---	---
Oil Age	mls Client Info	125337	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >500	▲ 828	---	---
Chromium ppm	ASTM D5185m >10	5	---	---
Nickel ppm	ASTM D5185m >10	3	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >25	▲ 14	---	---
Lead ppm	ASTM D5185m >25	5	---	---
Copper ppm	ASTM D5185m >100	16	---	---
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 400	222	---	---
Barium ppm	ASTM D5185m 200	3	---	---
Molybdenum ppm	ASTM D5185m 12	0	---	---
Manganese ppm	ASTM D5185m	11	---	---
Magnesium ppm	ASTM D5185m 12	40	---	---
Calcium ppm	ASTM D5185m 150	122	---	---
Phosphorus ppm	ASTM D5185m 1650	1393	---	---
Zinc ppm	ASTM D5185m 125	57	---	---
Sulfur ppm	ASTM D5185m 22500	23481	---	---

CONTAMINANTS

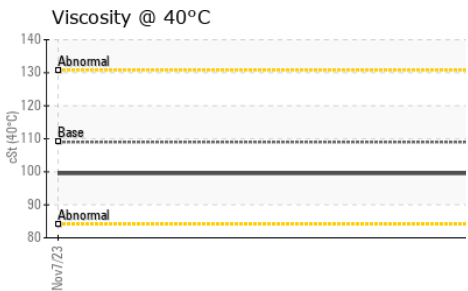
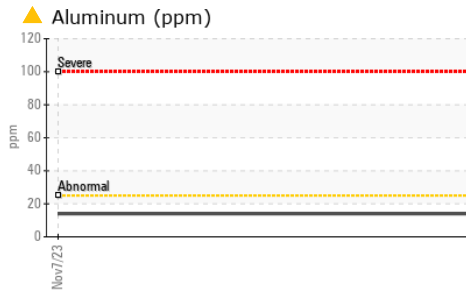
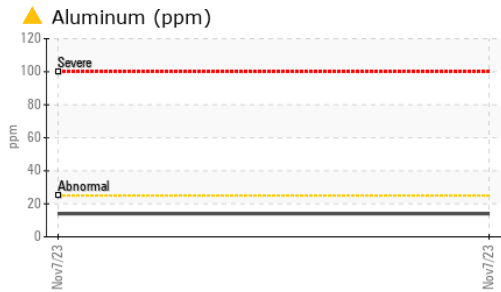
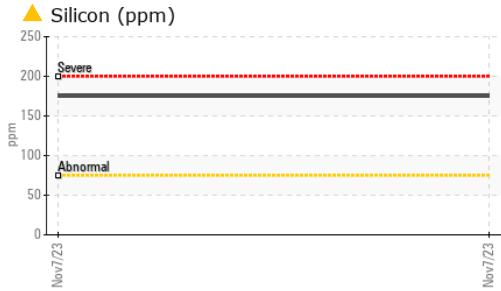
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >75	▲ 175	---	---
Sodium ppm	ASTM D5185m	9	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---

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 >.2	NEG	---	---
Free Water scalar	*Visual	NEG	---	---



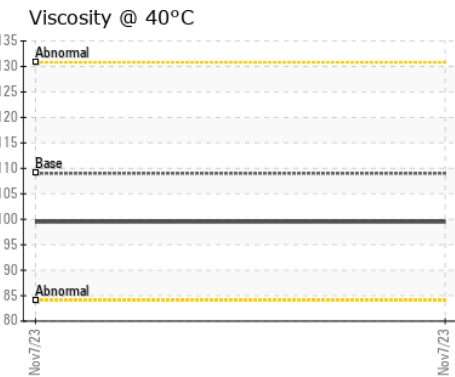
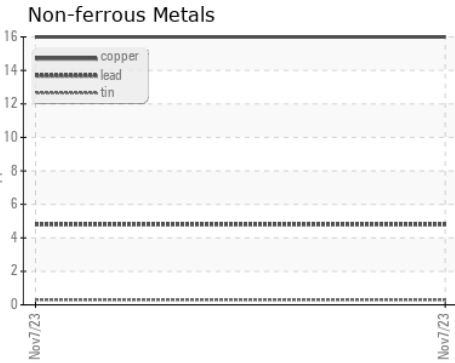
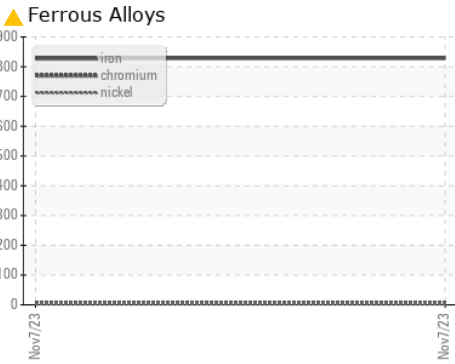
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 109	99.5	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867832 **Received** : 20 Nov 2023
Lab Number : **06013534** **Diagnosed** : 22 Nov 2023
Unique Number : 10752678 **Diagnostician** : Sean Felton
Test Package : FLEET

GREENEVILLE OIL & PETROLEUM INC
 860 WEST ANDREW JOHNSON HWY
 GREENEVILLE, TN
 US 37745
 Contact: SHOP
 shop@burkhardtenterprises.com
 T:
 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)