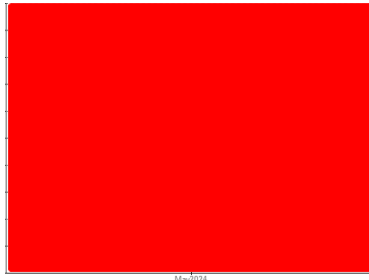


# PROBLEM SUMMARY

Sample Rating Trend

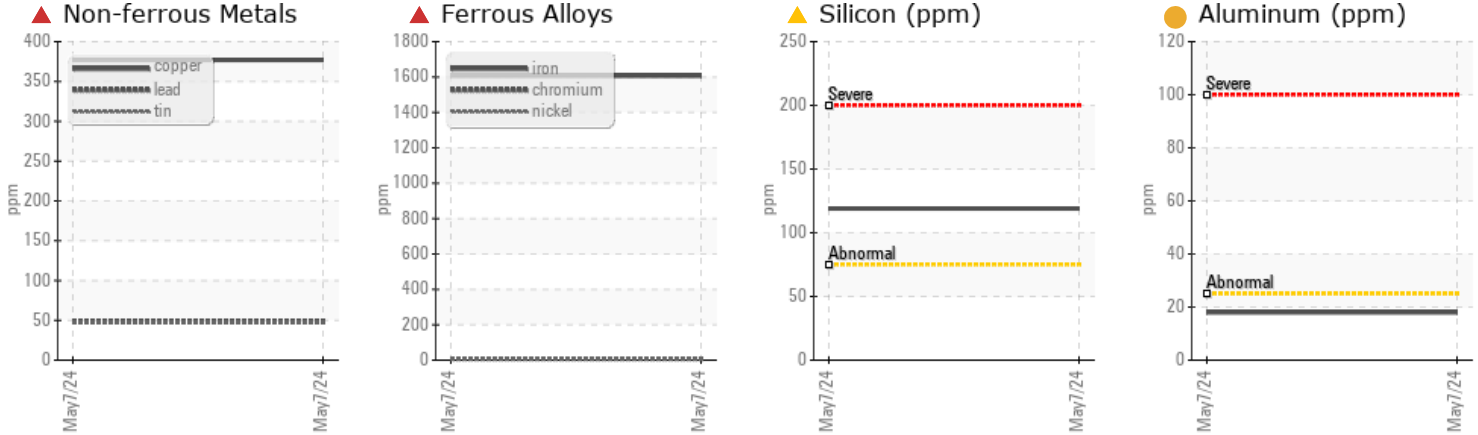


WEAR



Machine Id  
**171**  
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. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Iron ppm ASTM D5185m >500	▲ 1607	---	---
Lead ppm ASTM D5185m >25	▲ 48	---	---
Copper ppm ASTM D5185m >100	▲ 377	---	---
Tin ppm ASTM D5185m >10	▲ 47	---	---
Silicon ppm ASTM D5185m >75	▲ 119	---	---
White Metal scalar *Visual NONE	▲ HEAVY	---	---

Customer Id: GASMAN  
Sample No.: PCA0124604  
Lab Number: 06193554  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

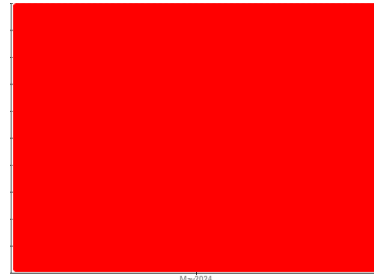
## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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



**WEAR**



Machine Id  
**171**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## DIAGNOSIS

- Recommendation**  
 We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.
- Wear**  
 Bearing and/or 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 as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0124604</b>	---	---
Sample Date	Client Info		<b>07 May 2024</b>	---	---
Machine Age	mls	Client Info	<b>375963</b>	---	---
Oil Age	mls	Client Info	<b>375963</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>▲ 1607</b>	---	---
Chromium	ppm	ASTM D5185m >10	<b>7</b>	---	---
Nickel	ppm	ASTM D5185m >10	<b>6</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>● 18</b>	---	---
Lead	ppm	ASTM D5185m >25	<b>▲ 48</b>	---	---
Copper	ppm	ASTM D5185m >100	<b>▲ 377</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>▲ 47</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>218</b>	---	---
Barium	ppm	ASTM D5185m 200	<b>5</b>	---	---
Molybdenum	ppm	ASTM D5185m 12	<b>2</b>	---	---
Manganese	ppm	ASTM D5185m	<b>17</b>	---	---
Magnesium	ppm	ASTM D5185m 12	<b>17</b>	---	---
Calcium	ppm	ASTM D5185m 150	<b>189</b>	---	---
Phosphorus	ppm	ASTM D5185m 1650	<b>1396</b>	---	---
Zinc	ppm	ASTM D5185m 125	<b>34</b>	---	---
Sulfur	ppm	ASTM D5185m 22500	<b>27862</b>	---	---

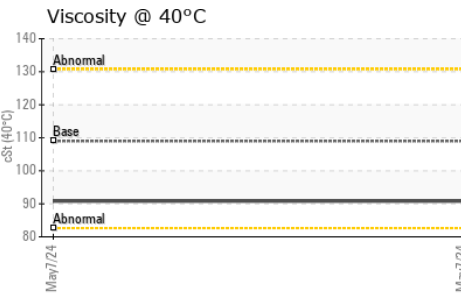
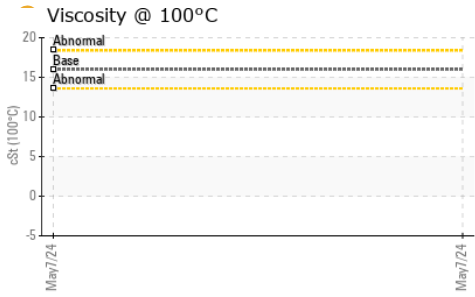
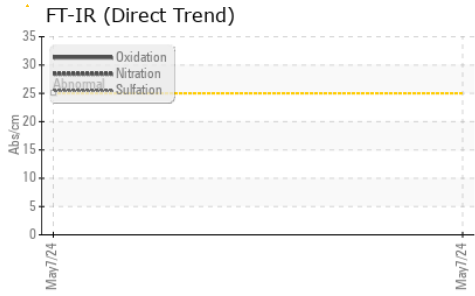
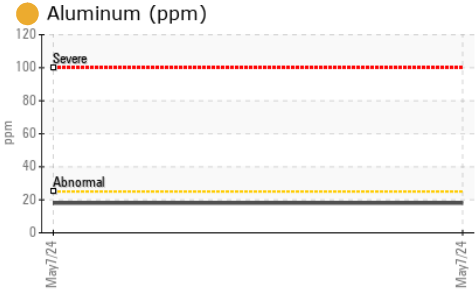
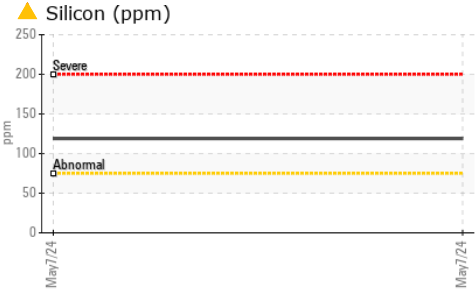
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 119</b>	---	---
Sodium	ppm	ASTM D5185m	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	---	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>▲ HEAVY</b>	---	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	---	---
Free Water	scalar	*Visual	<b>NEG</b>	---	---

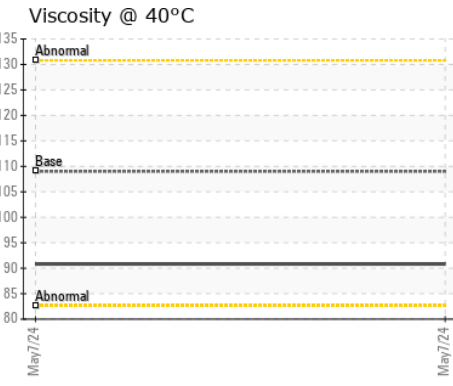
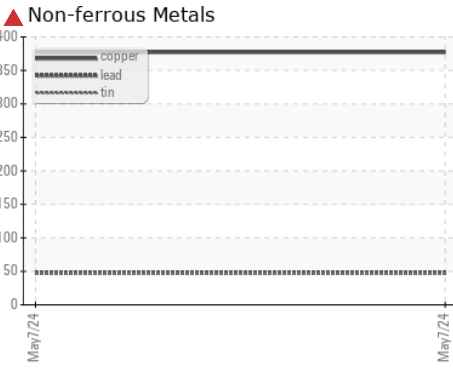
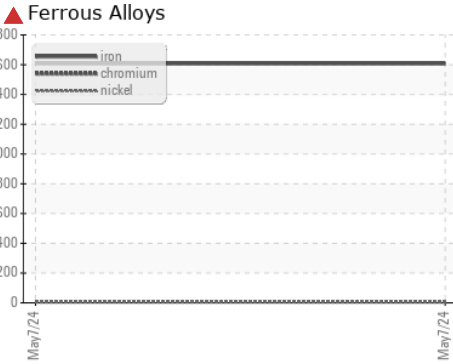
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	109	<b>90.82</b>	---	---

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.** : PCA0124604      **Received** : 29 May 2024  
**Lab Number** : **06193554**      **Tested** : 03 Jun 2024  
**Unique Number** : 11050306      **Diagnosed** : 03 Jun 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FT-IR, KV100 )

**GAS FIELD SPECIALISTS**  
 114 PA-660  
 MANSFIELD, PA  
 US 16933  
 Contact: TARA MUIRHEAD  
 tara.muirhead@gsinc.net

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)

T:  
F: