

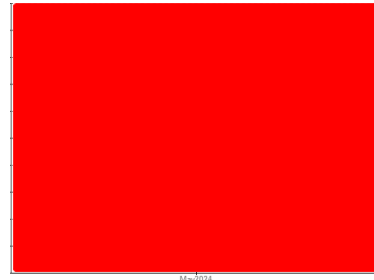


PROBLEM SUMMARY



Machine Id
52-160
 Component
Left Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

Sample Rating Trend

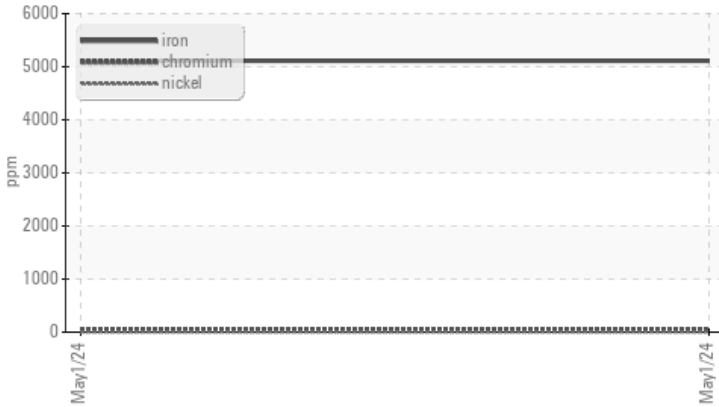


WEAR



COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

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	>800	▲ 5111	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 56	---	---

Customer Id: MANTUL
 Sample No.: WC0936968
 Lab Number: 06174341
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
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.

HISTORICAL DIAGNOSIS



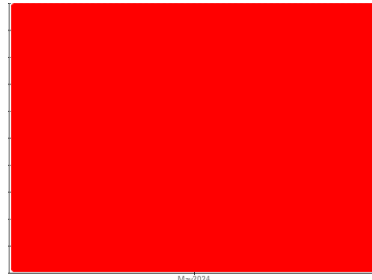
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
52-160
Component
Left Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)



DIAGNOSIS

▲ Recommendation

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

▲ Wear

Gear wear is indicated. Component wear metal level(s) high for break in.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0936968	---	---
Sample Date	Client Info		01 May 2024	---	---
Machine Age	hrs	Client Info	766	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	▲ 5111	---	---
Chromium	ppm	ASTM D5185m >10	▲ 56	---	---
Nickel	ppm	ASTM D5185m >5	6	---	---
Titanium	ppm	ASTM D5185m >15	3	---	---
Silver	ppm	ASTM D5185m >2	2	---	---
Aluminum	ppm	ASTM D5185m >75	34	---	---
Lead	ppm	ASTM D5185m >10	3	---	---
Copper	ppm	ASTM D5185m >75	33	---	---
Tin	ppm	ASTM D5185m >8	0	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	228	---	---
Barium	ppm	ASTM D5185m 200	20	---	---
Molybdenum	ppm	ASTM D5185m 12	4	---	---
Manganese	ppm	ASTM D5185m	45	---	---
Magnesium	ppm	ASTM D5185m 12	7	---	---
Calcium	ppm	ASTM D5185m 150	41	---	---
Phosphorus	ppm	ASTM D5185m 1650	1864	---	---
Zinc	ppm	ASTM D5185m 125	207	---	---
Sulfur	ppm	ASTM D5185m 22500	31286	---	---

CONTAMINANTS

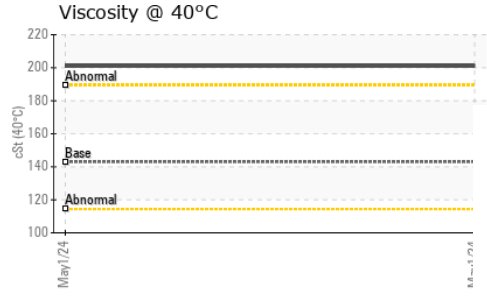
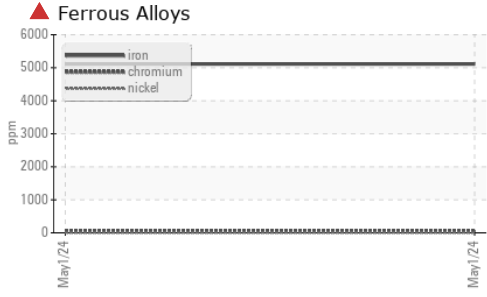
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	272	---	---
Sodium	ppm	ASTM D5185m >170	33	---	---
Potassium	ppm	ASTM D5185m >20	32	---	---

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	---	---



OIL ANALYSIS REPORT



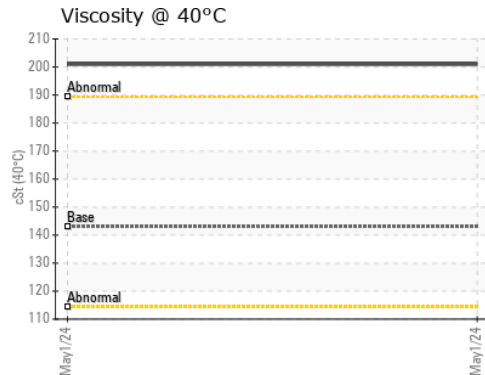
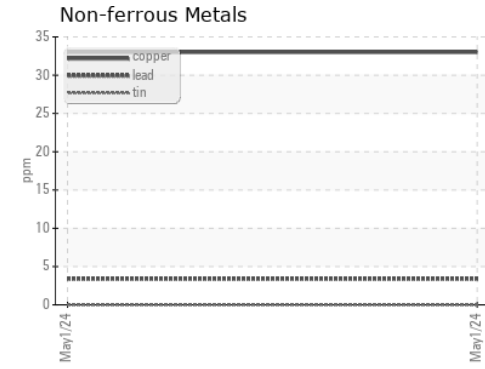
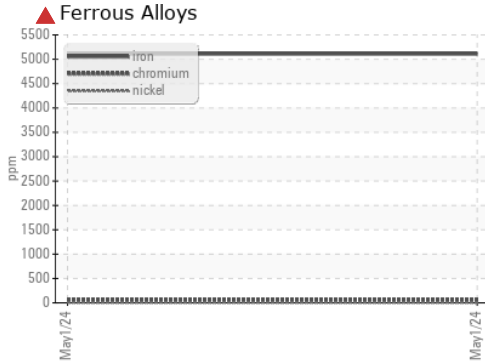
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 143	201	---	---

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936968
Lab Number : **06174341**
Unique Number : 11020394
Test Package : CONST

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Don Baldrige

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK
 US 74146

Contact: BEN CALDWELL
 kevin.marson@wearcheck.com

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)

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