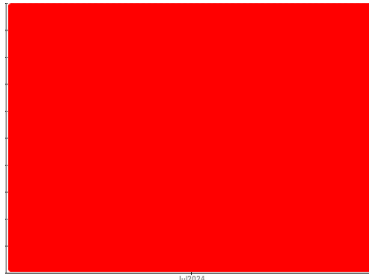


# PROBLEM SUMMARY

Sample Rating Trend



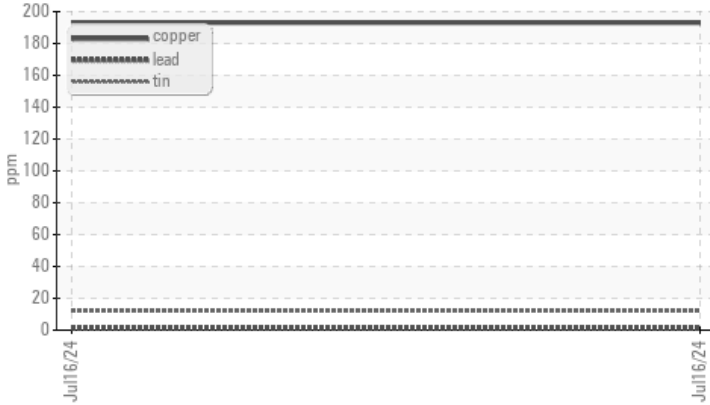
**WEAR**



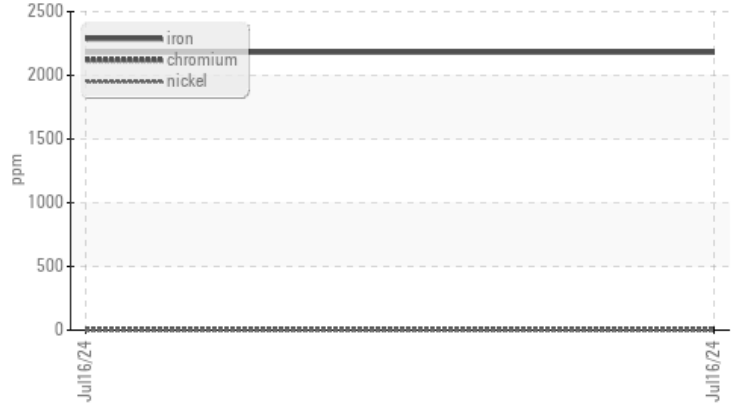
Machine Id  
**HAMM H11IXP 12-8 (S/N H2100528)**  
 Component  
**Rear Axle**  
 Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



### ▲ Ferrous Alloys



## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. 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	▲ 2180	---	---
Copper	ppm	ASTM D5185m	>50	▲ 193	---	---
Tin	ppm	ASTM D5185m	>10	▲ 12	---	---

Customer Id: CENMONJR  
 Sample No.: JRM438548  
 Lab Number: 06239452  
 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](mailto:don.b505@comcast.net)

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

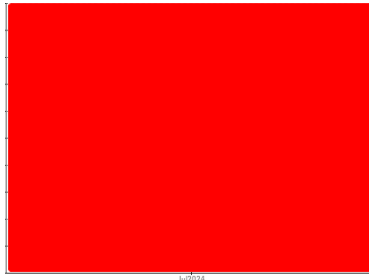
## RECOMMENDED ACTIONS

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

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**HAMM H11IXP 12-8 (S/N H2100528)**  
 Component  
**Rear Axle**  
 Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**▲ Wear**

Gear wear is indicated. Bearing and/or bushing wear is indicated.

**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			<b>JRMC438548</b>	---	---
Sample Date	Client Info			<b>16 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

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

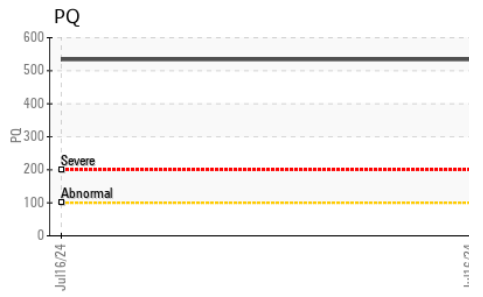
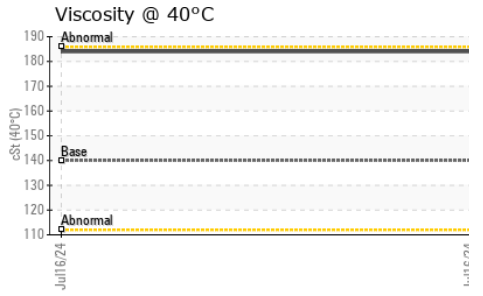
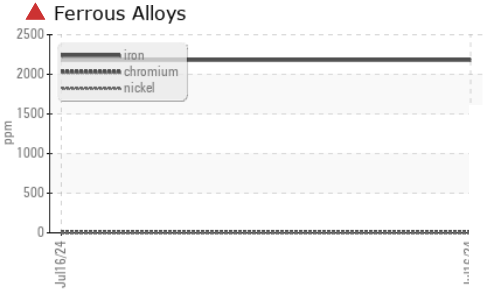
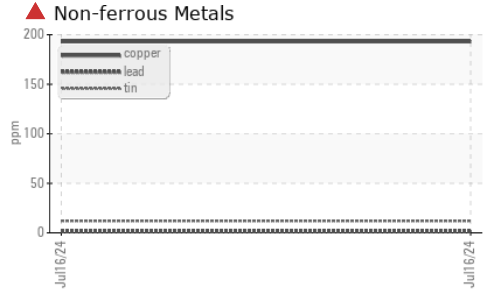
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>534</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>▲ 2180</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>7</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>▲ 193</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>▲ 12</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	150	<b>1</b>	---	---
Barium	ppm	ASTM D5185m		<b>110</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>51</b>	---	---
Manganese	ppm	ASTM D5185m		<b>19</b>	---	---
Magnesium	ppm	ASTM D5185m	10	<b>4</b>	---	---
Calcium	ppm	ASTM D5185m	70	<b>34</b>	---	---
Phosphorus	ppm	ASTM D5185m	2000	<b>1970</b>	---	---
Zinc	ppm	ASTM D5185m	50	<b>73</b>	---	---
Sulfur	ppm	ASTM D5185m	20000	<b>34473</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>23</b>	---	---
Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</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	>0.2	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

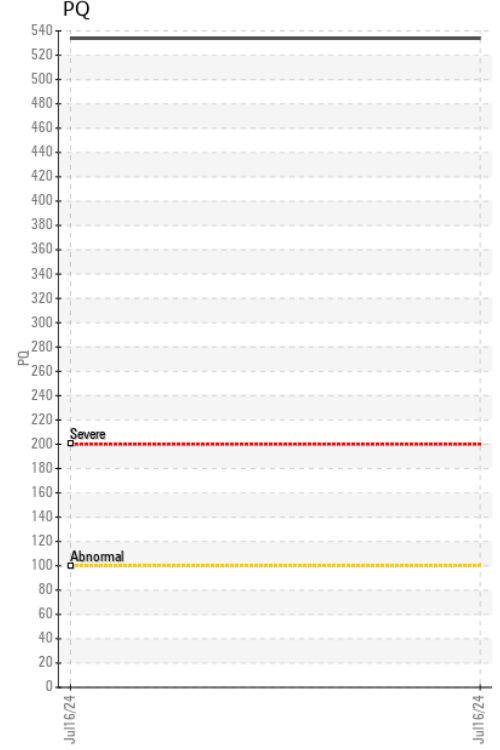
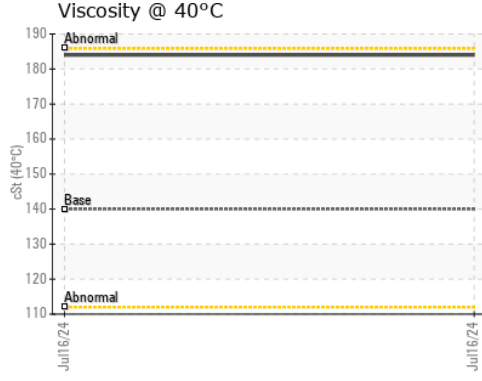
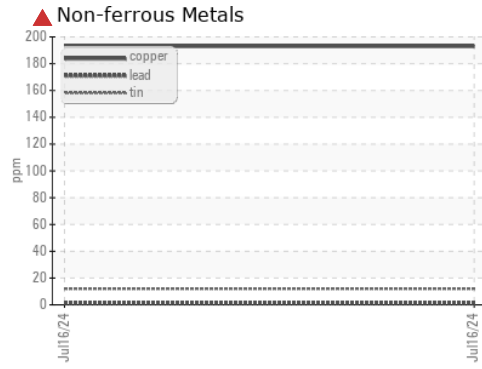
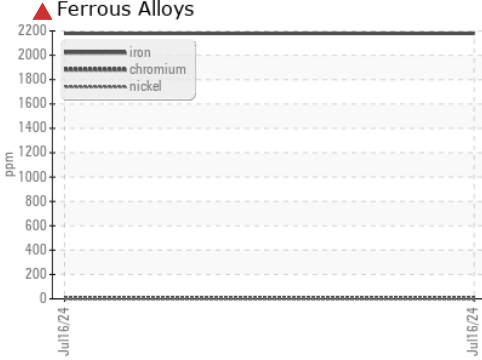
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 140	<b>184</b>	---	---

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

**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JRMC438548      **Received** : 17 Jul 2024  
**Lab Number** : **06239452**      **Tested** : 18 Jul 2024  
**Unique Number** : 11128286      **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**CENTERLINE CONTRACTORS**  
 1908 MORGAN MILL RD  
 MONROE, NC  
 US 28110  
 Contact: MARK BRANTLEY  
 mark@centerline-contractors.com  
 T: (704)774-9004  
 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)