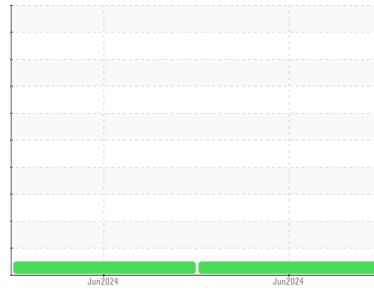




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[W52619 JR CASKEY]**  
 Machine Id  
**HAMM GRW180I H2280193**  
 Component  
**Right Final Drive**  
 Fluid  
**GEAR OIL ISO 220 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: one of two samples received with same ID and sampling date.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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		<b>JR0224936</b>	JR0224937	---
Sample Date	Client Info		<b>21 Jun 2024</b>	21 Jun 2024	---
Machine Age	hrs	Client Info	<b>1215</b>	1215	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>60</b>	40	---
Iron	ppm	ASTM D5185m >500	<b>155</b>	147	---
Chromium	ppm	ASTM D5185m >10	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	3	---
Lead	ppm	ASTM D5185m >25	<b>1</b>	1	---
Copper	ppm	ASTM D5185m >50	<b>2</b>	2	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185m 15	<b>2</b>	3	---
Molybdenum	ppm	ASTM D5185m 15	<b>1</b>	1	---
Manganese	ppm	ASTM D5185m	<b>4</b>	4	---
Magnesium	ppm	ASTM D5185m 50	<b>6</b>	6	---
Calcium	ppm	ASTM D5185m 50	<b>103</b>	105	---
Phosphorus	ppm	ASTM D5185m 350	<b>259</b>	255	---
Zinc	ppm	ASTM D5185m 100	<b>33</b>	34	---
Sulfur	ppm	ASTM D5185m 12500	<b>22410</b>	21511	---

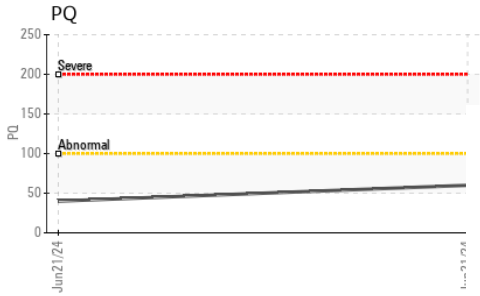
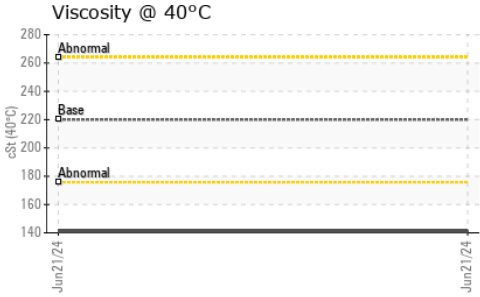
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>2</b>	2	---
Sodium	ppm	ASTM D5185m	<b>9</b>	5	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	3	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

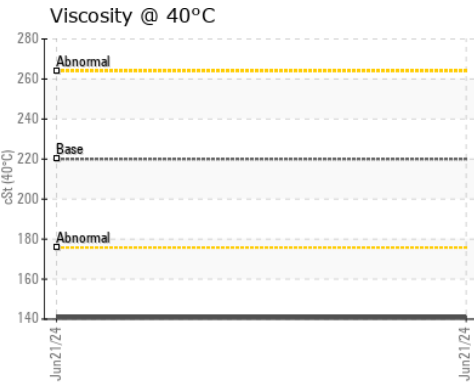
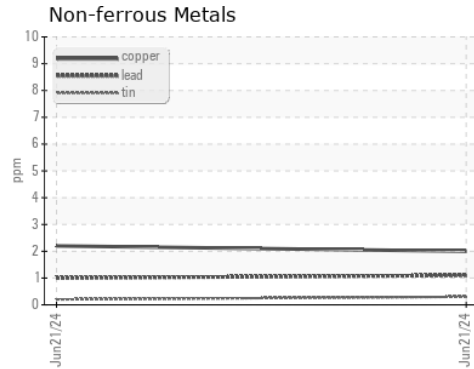
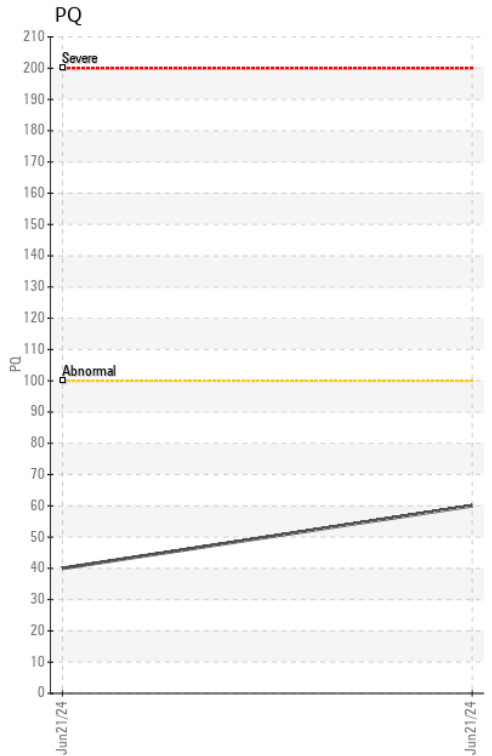
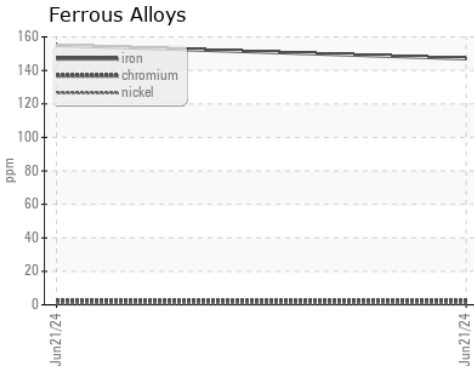
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	<b>141</b>	141	---

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.** : JR0224936      **Received** : 25 Jun 2024  
**Lab Number** : 06219971      **Tested** : 26 Jun 2024  
**Unique Number** : 11098168      **Diagnosed** : 27 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005  
 Contact: DAVID ZIEG  
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 T: (804)798-6001  
 F: (804)798-0292

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)