



WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**HCMAFC60C00293935**

Component  
**Left Final Drive**

Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

### WEAR

Gear wear is indicated.

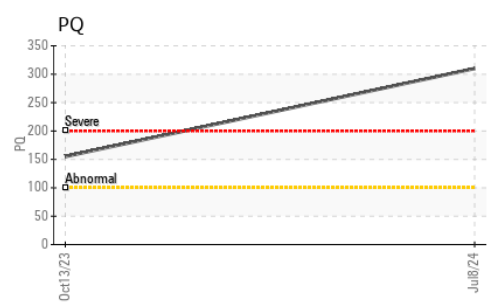
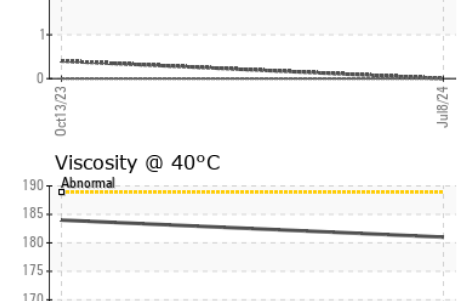
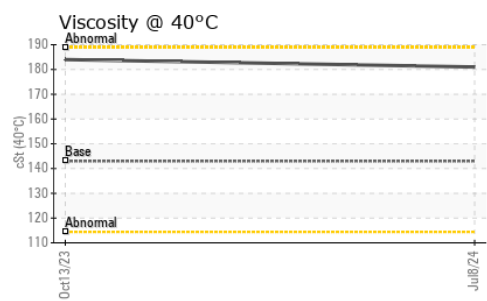
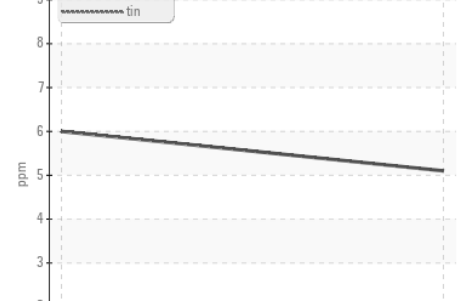
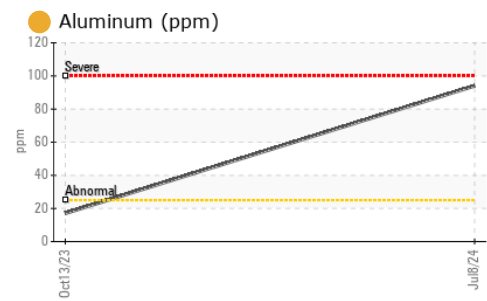
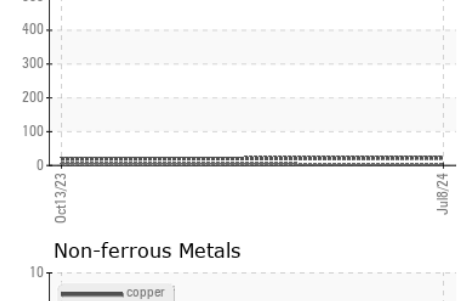
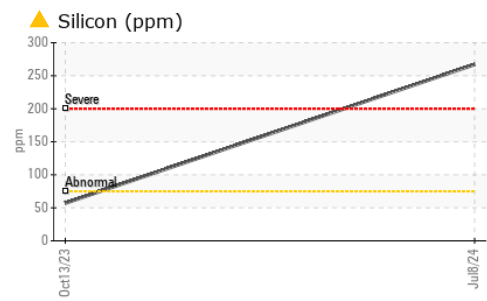
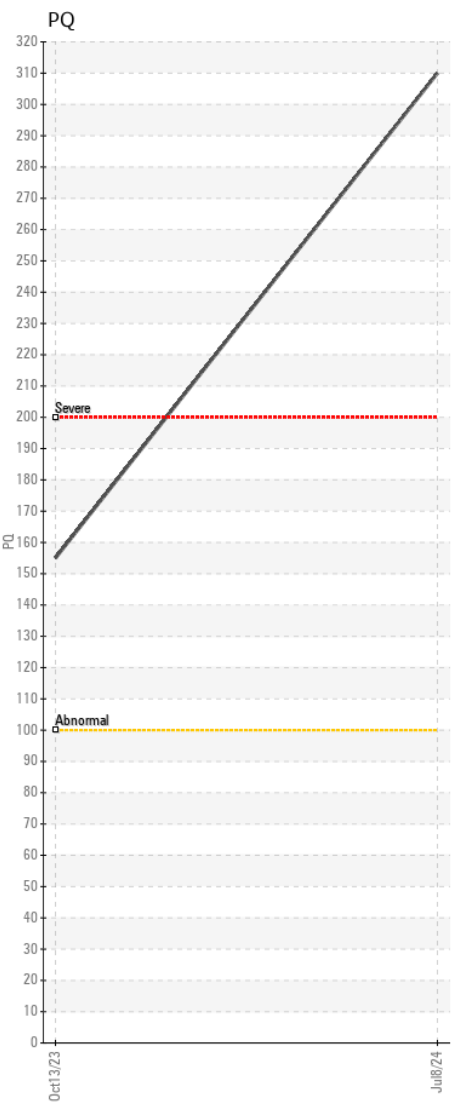
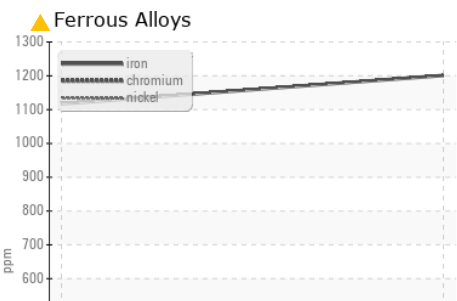
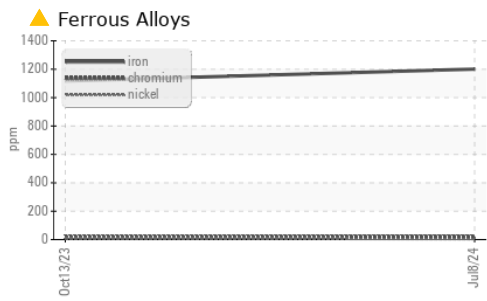
### CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0220333</b>	JR0178866	---
Sample Date		Client Info		<b>08 Jul 2024</b>	13 Oct 2023	---
Machine Age	hrs	Client Info		<b>2381</b>	1950	---
Oil Age	hrs	Client Info		<b>431</b>	1950	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---
PQ		ASTM D8184		<b>310</b>	155	---
Iron	ppm	ASTM D5185m	>500	<b>▲ 1201</b>	1117	---
Chromium	ppm	ASTM D5185m	>10	<b>▲ 22</b>	19	---
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	6	---
Titanium	ppm	ASTM D5185m		<b>5</b>	3	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>● 94</b>	17	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>5</b>	6	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>75	<b>▲ 267</b>	57	---
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	31	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
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	---
Sodium	ppm	ASTM D5185m	>170	<b>22</b>	2	---
Boron	ppm	ASTM D5185m	400	<b>12</b>	39	---
Barium	ppm	ASTM D5185m	200	<b>2</b>	5	---
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>19</b>	22	---
Magnesium	ppm	ASTM D5185m	12	<b>11</b>	5	---
Calcium	ppm	ASTM D5185m	150	<b>31</b>	26	---
Phosphorus	ppm	ASTM D5185m	1650	<b>783</b>	452	---
Zinc	ppm	ASTM D5185m	125	<b>111</b>	302	---
Sulfur	ppm	ASTM D5185m	22500	<b>20586</b>	16166	---
Visc @ 40°C	cSt	ASTM D445	143	<b>181</b>	184	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220333 **Received** : 10 Jul 2024  
**Lab Number** : 06232547 **Tested** : 11 Jul 2024  
**Unique Number** : 11116040 **Diagnosed** : 12 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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Certificate L2367  
 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)