



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



Machine Id  
**CATERPILLAR 908M C237144 (S/N CAT0908MLH8801142)**  
 Component  
**Rear Differential**  
 Fluid  
**CAT TDTO 30W (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218689</b>	JR0191348	---
Sample Date		Client Info		<b>04 Jun 2024</b>	07 Dec 2023	---
Machine Age	hrs	Client Info		<b>5333</b>	4885	---
Oil Age	hrs	Client Info		<b>448</b>	0	---
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>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>29</b>	93	---
Iron	ppm	ASTM D5185m	>500	<b>41</b>	170	---
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	>13	<b>5</b>	▲ 17	---
Copper	ppm	ASTM D5185m	>103	<b>41</b>	▲ 214	---
Tin	ppm	ASTM D5185m	>5	<b>5</b>	▲ 21	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

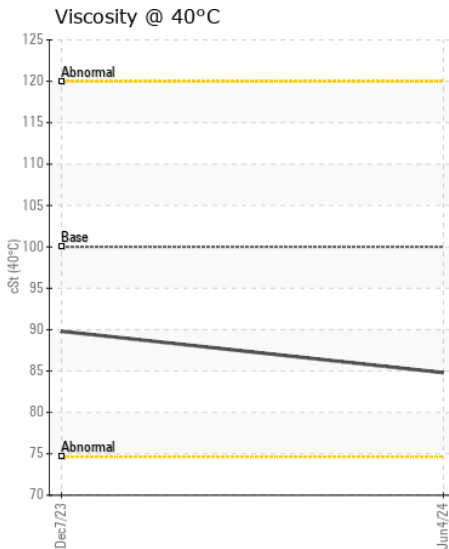
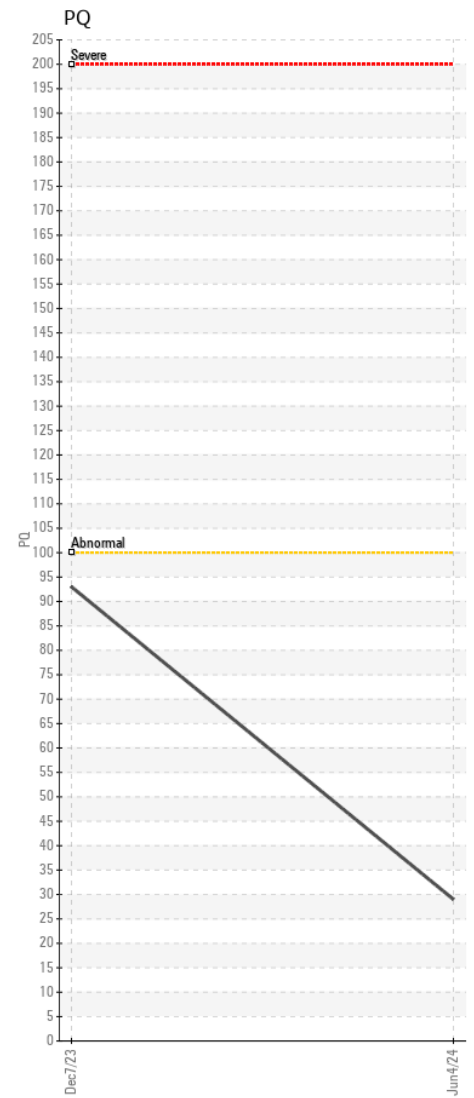
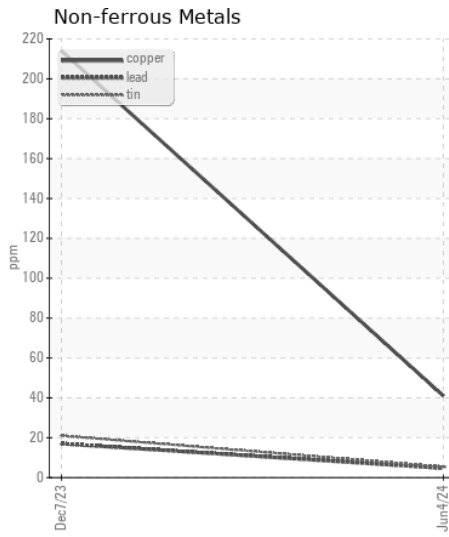
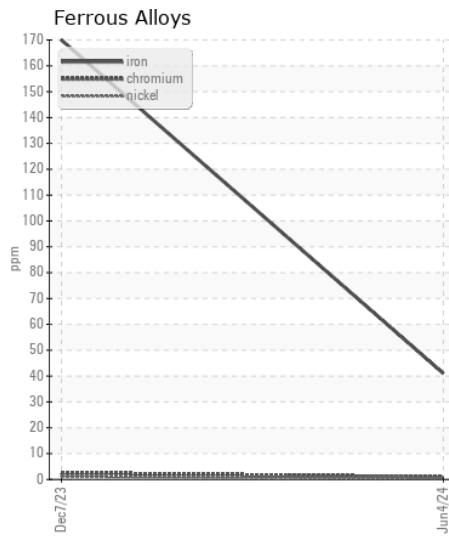
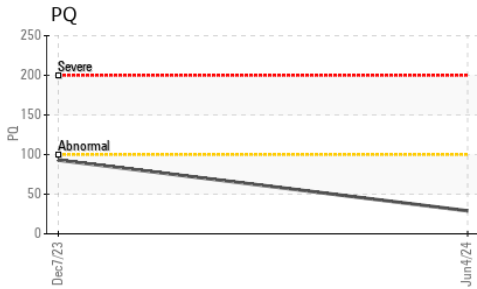
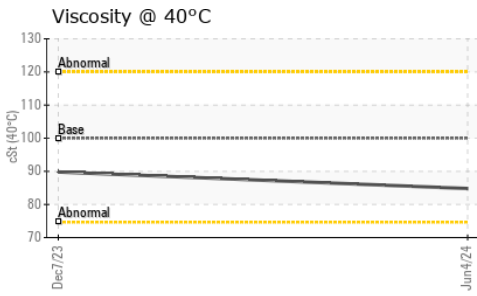
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>5</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	13	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
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	>.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	5	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>1</b>	1	---
Manganese	ppm	ASTM D5185m		<b>3</b>	10	---
Magnesium	ppm	ASTM D5185m		<b>12</b>	11	---
Calcium	ppm	ASTM D5185m	2980	<b>3028</b>	2947	---
Phosphorus	ppm	ASTM D5185m	1100	<b>1024</b>	1038	---
Zinc	ppm	ASTM D5185m	1270	<b>1282</b>	1189	---
Sulfur	ppm	ASTM D5185m		<b>7705</b>	9891	---
Visc @ 40°C	cSt	ASTM D445	100	<b>84.8</b>	89.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218689 **Received** : 14 Jun 2024  
**Lab Number** : 06210442 **Tested** : 17 Jun 2024  
**Unique Number** : 11083306 **Diagnosed** : 18 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - ASHEVILLE**  
 101 BRUCE DRIVE  
 ASHEVILLE, NC  
 US 28806

Contact: Randy Warren  
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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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