



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

Machine Id  
**E234**  
 Component  
**Transmission (Manual)**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0219629</b>	JR0144654	---
Sample Date		Client Info		<b>19 Jun 2024</b>	19 Jun 2023	---
Machine Age	hrs	Client Info		<b>1526</b>	1005	---
Oil Age	hrs	Client Info		<b>0</b>	1005	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>24</b>	15	---
Iron	ppm	ASTM D5185m	>200	<b>60</b>	51	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>12</b>	10	---
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>225	<b>16</b>	15	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
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

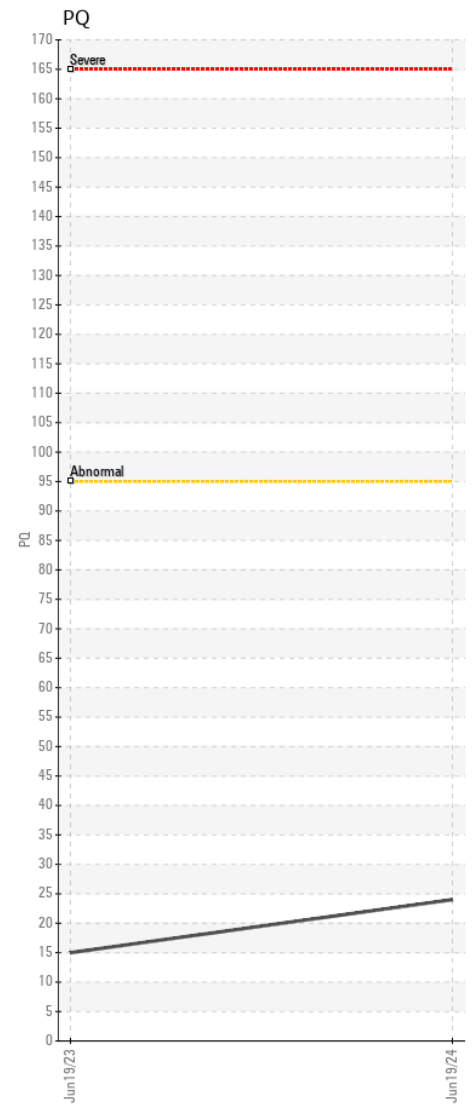
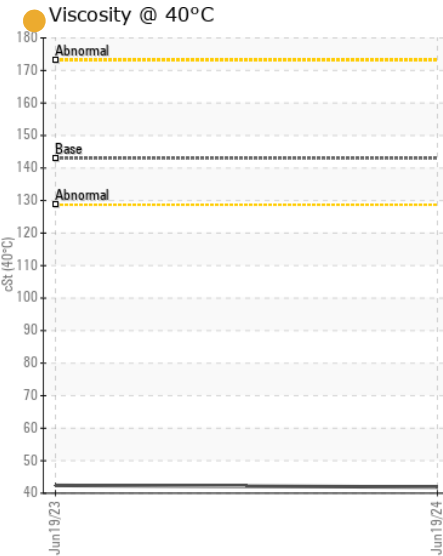
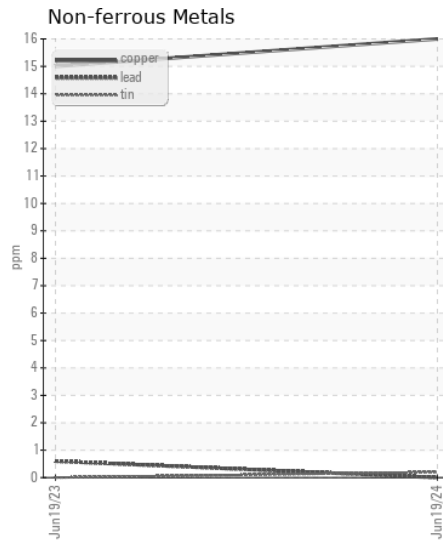
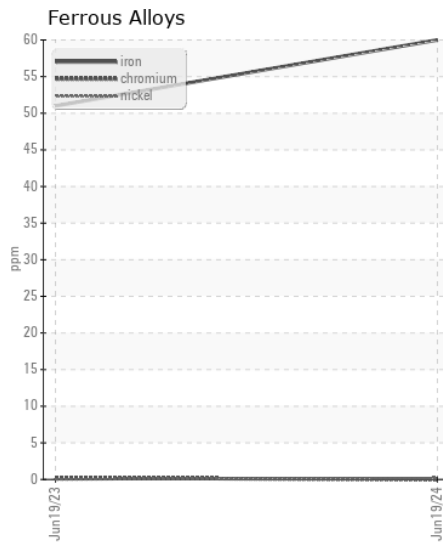
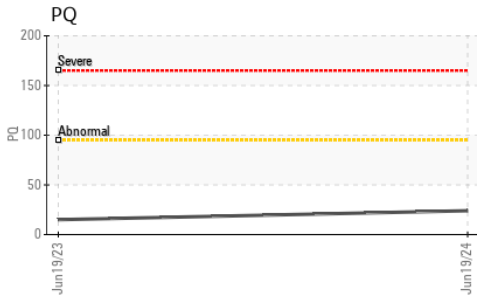
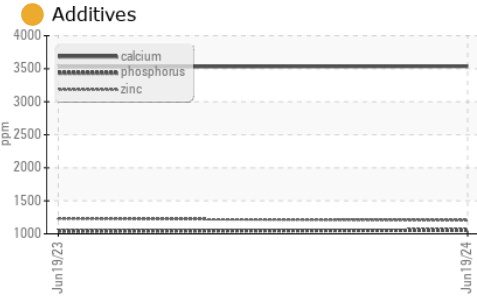
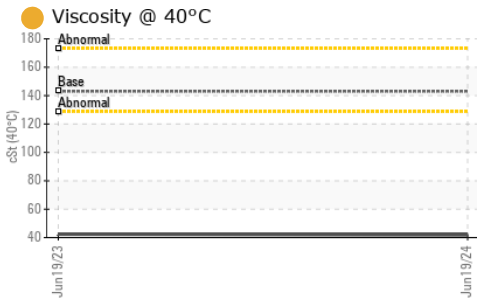
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>6</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>170	<b>8</b>	4	---
Boron	ppm	ASTM D5185m	400	<b>20</b>	23	---
Barium	ppm	ASTM D5185m	200	<b>1</b>	0	---
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	2	---
Manganese	ppm	ASTM D5185m		<b>3</b>	3	---
Magnesium	ppm	ASTM D5185m	12	<b>86</b>	86	---
Calcium	ppm	ASTM D5185m	150	<b>3536</b>	3530	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1055</b>	1041	---
Zinc	ppm	ASTM D5185m	125	<b>1204</b>	1230	---
Sulfur	ppm	ASTM D5185m	22500	<b>4032</b>	4029	---
Visc @ 40°C	cSt	ASTM D445	143	<b>41.9</b>	42.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0219629

Lab Number : 06226468

Unique Number : 11109961

Test Package : CONST ( Additional Tests: PQ )

Received : 02 Jul 2024

Tested : 03 Jul 2024

Diagnosed : 05 Jul 2024 - Don Baldrige

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)

**MATTHEWS CONSTRUCTION**

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