



# OIL ANALYSIS REPORT



Area  
**Store 9 - Marietta**  
 Machine Id  
**1T0700KXAJF327378**  
 Component  
**Left Final Drive**  
 Fluid  
**GEAR OIL SAE 90 (3 GAL)**

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

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

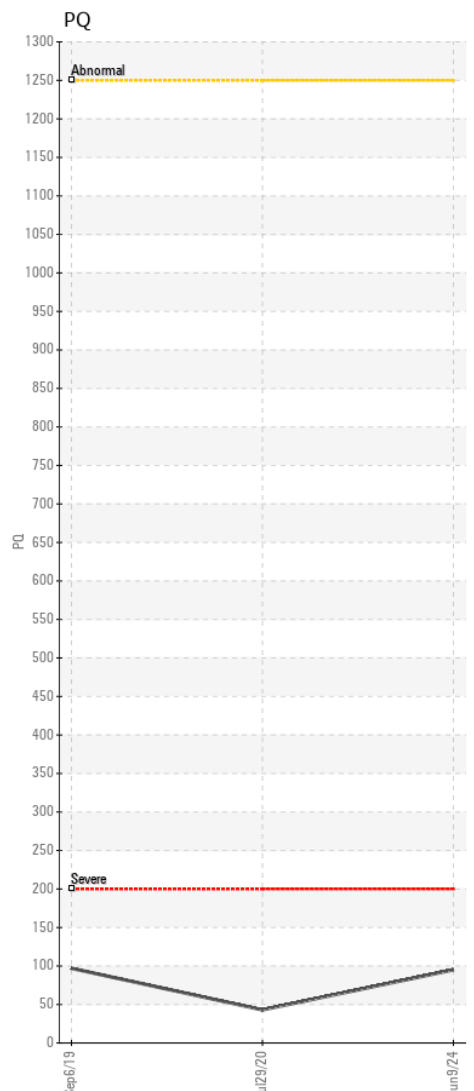
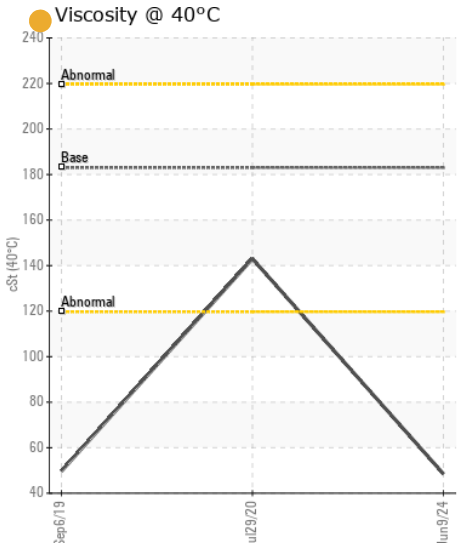
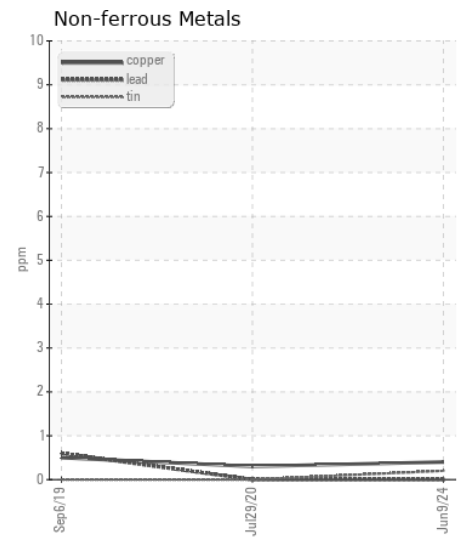
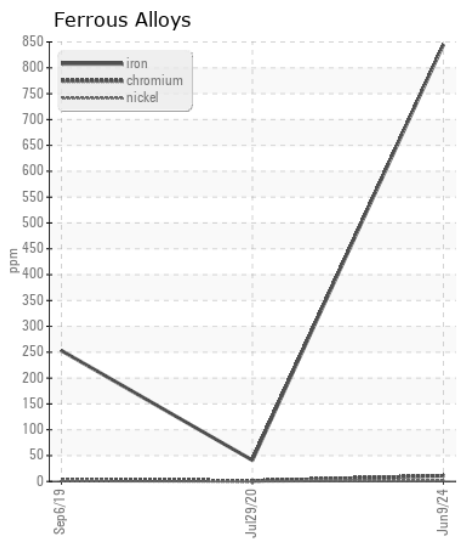
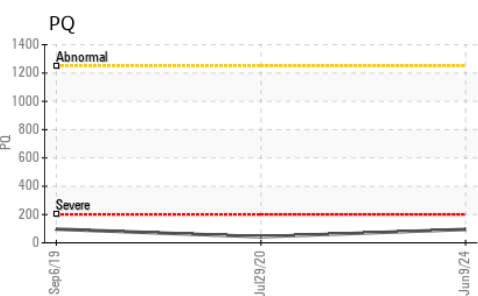
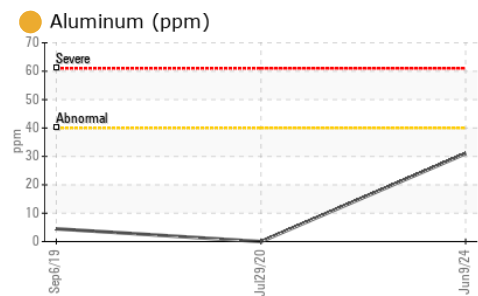
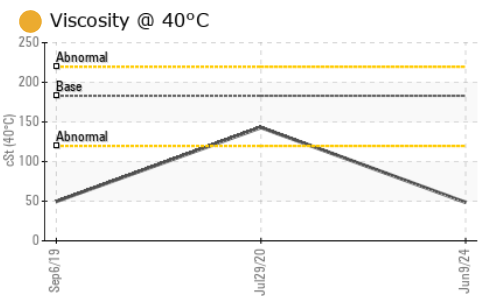
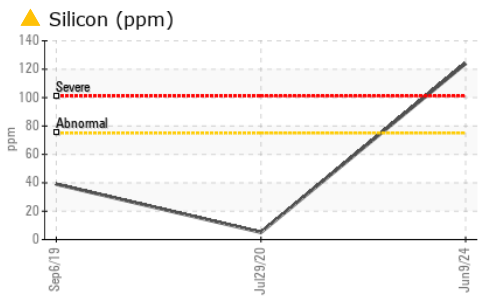
## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

## FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0049297</b>	LECP5048196	LEC0006076
Sample Date		Client Info		<b>09 Jun 2024</b>	29 Jul 2020	06 Sep 2019
Machine Age	hrs	Client Info		<b>3457</b>	1654	818
Oil Age	hrs	Client Info		<b>1000</b>	0	818
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ATTENTION	NORMAL
PQ		ASTM D8184	>1250	<b>95</b>	43	97
Iron	ppm	ASTM D5185m	>750	<b>845</b>	41	253
Chromium	ppm	ASTM D5185m	>9	<b>11</b>	1	4
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>31</b>	0	4
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>124</b>	5	39
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	2	12
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	<b>9</b>	<1	6
Boron	ppm	ASTM D5185m	400	<b>5</b>	9	4
Barium	ppm	ASTM D5185m	200	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	12	<b>9</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>12</b>	1	6
Magnesium	ppm	ASTM D5185m	12	<b>101</b>	2	102
Calcium	ppm	ASTM D5185m	150	<b>3391</b>	81	3583
Phosphorus	ppm	ASTM D5185m	1650	<b>1061</b>	474	988
Zinc	ppm	ASTM D5185m	125	<b>1129</b>	16	1256
Sulfur	ppm	ASTM D5185m	22500	<b>4139</b>	18417	3202
Visc @ 40°C	cSt	ASTM D445	183	<b>48.5</b>	143	49.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049297 **Received** : 03 Jul 2024  
**Lab Number** : 06227715 **Tested** : 05 Jul 2024  
**Unique Number** : 11111208 **Diagnosed** : 06 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LANE PIPELINE**  
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 BRIDGEPORT, WV  
 US 26330  
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 T: (740)440-0927  
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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)