



# OIL ANALYSIS REPORT

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

Area  
**Store 1 - Cowen [151918]**  
Machine Id  
**WESTERN STAR 49X 5KJNBWFG6RLVG3104**  
Component  
**Transmission (Manual)**  
Fluid  
**SAE 50W (4 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0049853</b>	LEC0049910	LEC0047381
Sample Date		Client Info		<b>17 Jun 2024</b>	29 Apr 2024	19 Feb 2024
Machine Age	mls	Client Info		<b>44724</b>	29602	14550
Oil Age	mls	Client Info		<b>44724</b>	29602	14550
Filter Age	mls	Client Info		<b>44724</b>	29602	14550
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>28</b>	34	32
Iron	ppm	ASTM D5185m	>200	<b>88</b>	74	67
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	1
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>225	<b>8</b>	10	6
Tin	ppm	ASTM D5185m	>10	<b>0</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

## CONTAMINATION

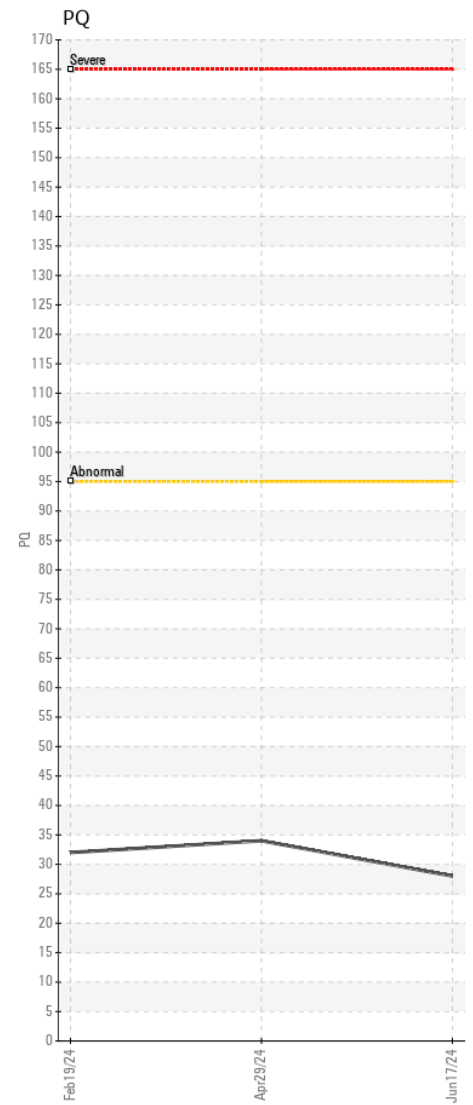
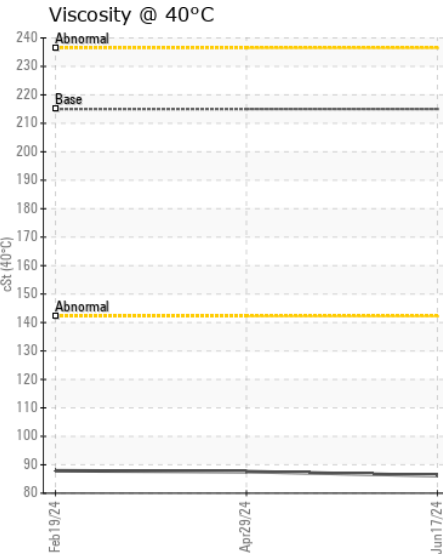
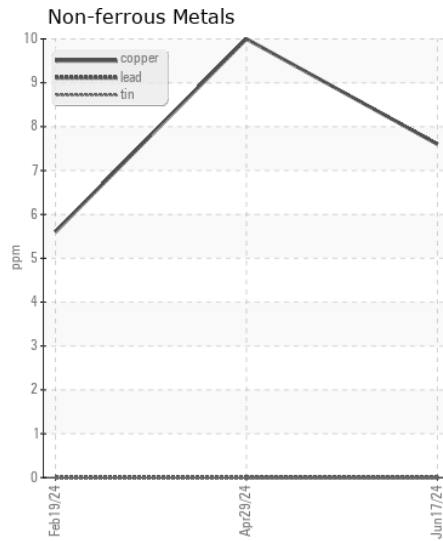
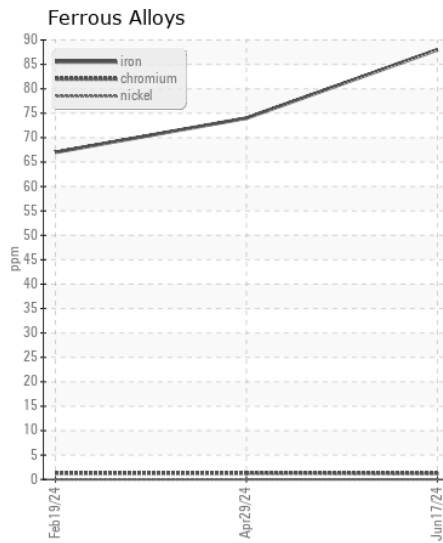
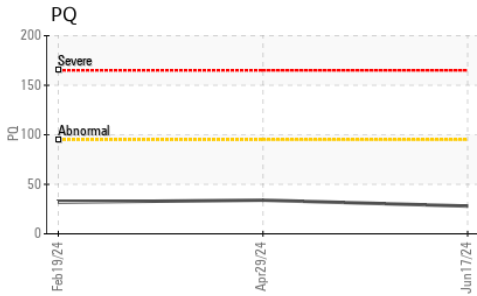
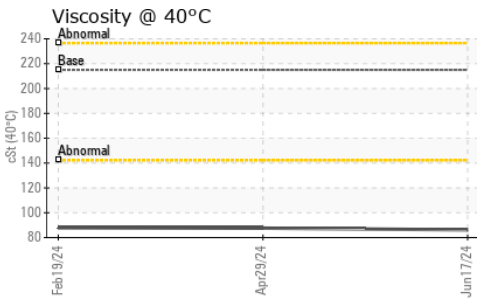
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>14</b>	16	18
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>8</b>	7	5
Boron	ppm	ASTM D5185m		<b>225</b>	297	312
Barium	ppm	ASTM D5185m		<b>2</b>	3	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>10</b>	11	9
Magnesium	ppm	ASTM D5185m		<b>3</b>	2	2
Calcium	ppm	ASTM D5185m		<b>122</b>	117	85
Phosphorus	ppm	ASTM D5185m		<b>1091</b>	1129	1191
Zinc	ppm	ASTM D5185m		<b>31</b>	25	23
Sulfur	ppm	ASTM D5185m		<b>584</b>	585	472
Visc @ 40°C	cSt	ASTM D445	215	<b>86.2</b>	87.6	87.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049853 **Received** : 19 Jun 2024  
**Lab Number** : 06214947 **Tested** : 20 Jun 2024  
**Unique Number** : 11087811 **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
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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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