



# OIL ANALYSIS REPORT

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



Area  
**OKLAHOMA/102**  
Machine Id  
**46.101L [OKLAHOMA^102]**  
Component  
**Rear Differential**  
Fluid  
**MOBIL MOBILTRANS AST 30 (10 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. ( Customer Sample Comment: 2665 hours )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0901285</b>	WC0819822	WC0713239
Sample Date		Client Info		<b>07 May 2024</b>	11 Oct 2023	20 Aug 2022
Machine Age	hrs	Client Info		<b>2665</b>	2040	1214
Oil Age	hrs	Client Info		<b>2665</b>	655	1214
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	SEVERE	NORMAL

## WEAR

The iron level has decreased, but is still abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 879</b>	▲ 1467	395
Chromium	ppm	ASTM D5185m	>3	<b>2</b>	▲ 5	1
Nickel	ppm	ASTM D5185m	>3	<b>1</b>	1	0
Titanium	ppm	ASTM D5185m	>2	<b>4</b>	16	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	10	6
Lead	ppm	ASTM D5185m	>13	<b>1</b>	<1	1
Copper	ppm	ASTM D5185m	>103	<b>6</b>	17	84
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

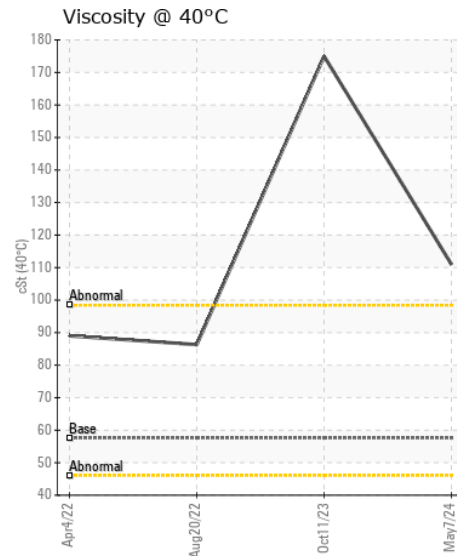
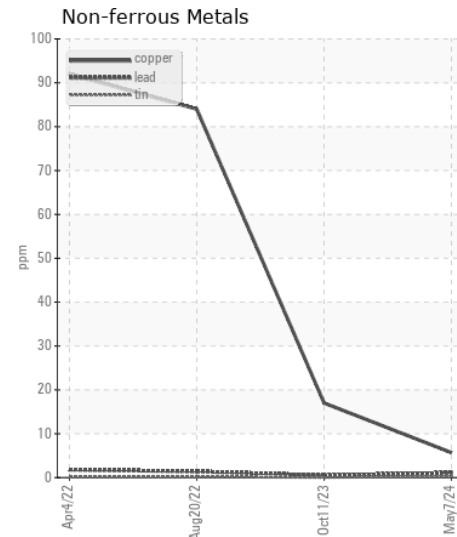
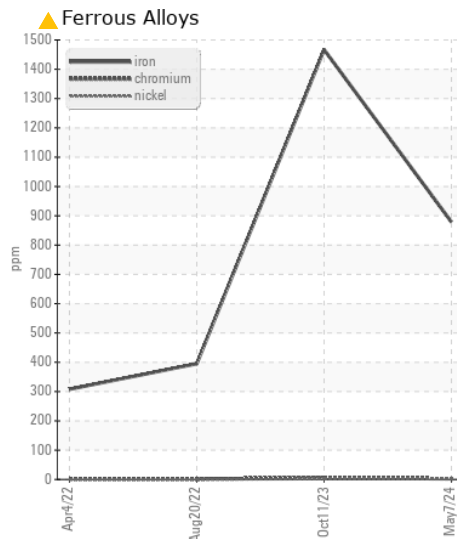
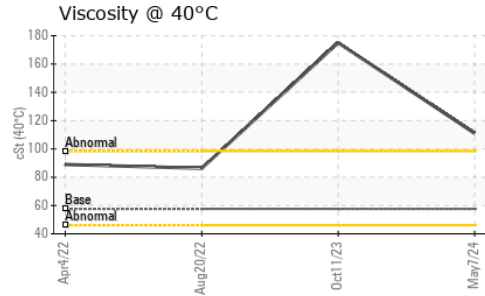
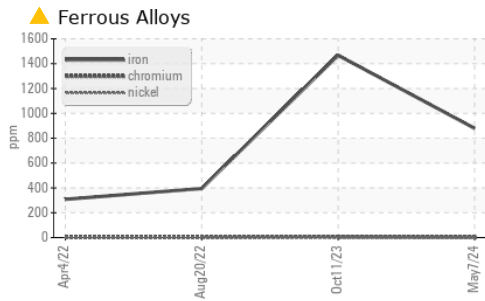
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>25</b>	49	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	5	1
Water		WC Method	>.2	<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	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	7	2
Boron	ppm	ASTM D5185m		<b>33</b>	6	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>4</b>	12	2
Manganese	ppm	ASTM D5185m		<b>10</b>	16	7
Magnesium	ppm	ASTM D5185m		<b>17</b>	36	9
Calcium	ppm	ASTM D5185m		<b>3127</b>	3014	2933
Phosphorus	ppm	ASTM D5185m		<b>1109</b>	1040	1092
Zinc	ppm	ASTM D5185m		<b>1245</b>	1291	1302
Sulfur	ppm	ASTM D5185m		<b>6596</b>	7999	4548
Visc @ 40°C	cSt	ASTM D445	57.6	<b>111</b>	● 175	86.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901285  
**Lab Number** : 06186950  
**Unique Number** : 11043702  
**Test Package** : CONST

**Received** : 21 May 2024  
**Tested** : 23 May 2024  
**Diagnosed** : 23 May 2024 - Don Baldrige

**SHERWOOD CONSTRUCTION CO INC**  
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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)