



# OIL ANALYSIS REPORT

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



Area  
**OKLAHOMA/102**  
Machine Id  
**45.63L [OKLAHOMA^102]**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (24 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0886882</b>	WC0848884	WC0584643
Sample Date		Client Info		<b>06 Feb 2024</b>	09 Sep 2023	14 Jan 2022
Machine Age	hrs	Client Info		<b>1755</b>	1430	11
Oil Age	hrs	Client Info		<b>500</b>	500	0
Filter Age	hrs	Client Info		<b>500</b>	500	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>10</b>	8	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	0
Lead	ppm	ASTM D5185m	>10	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>7</b>	5	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

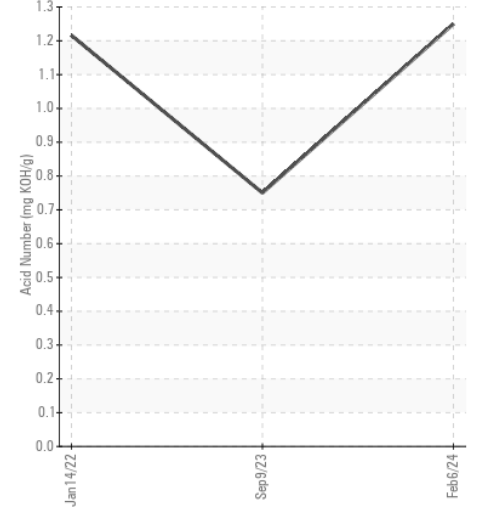
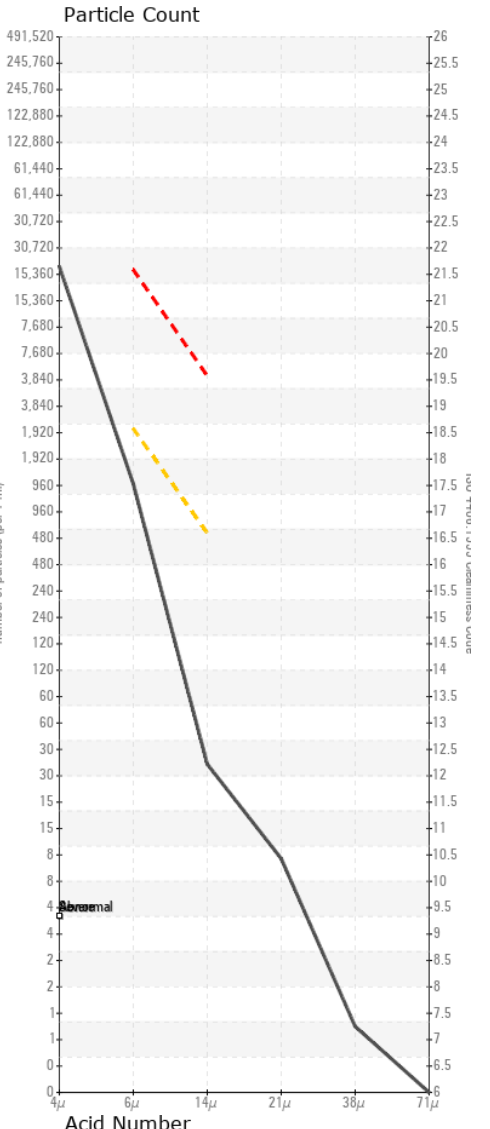
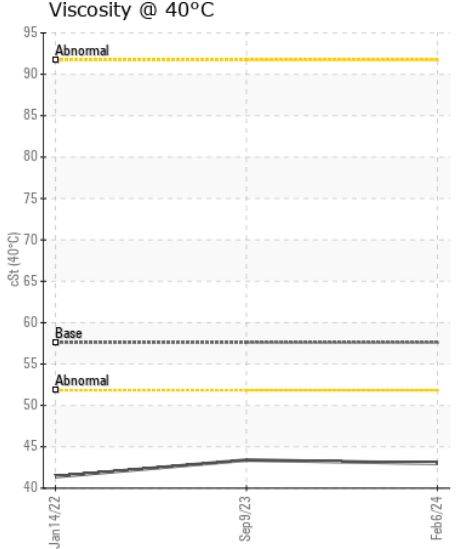
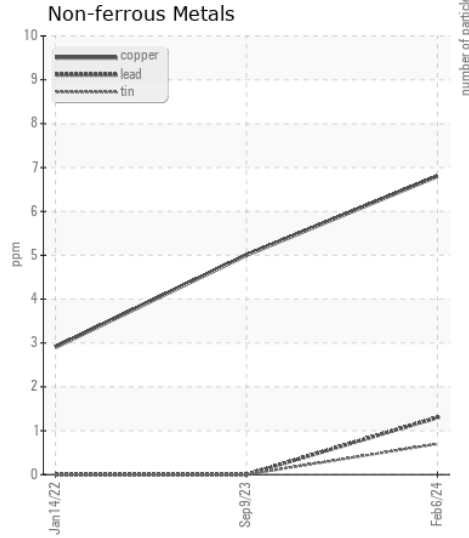
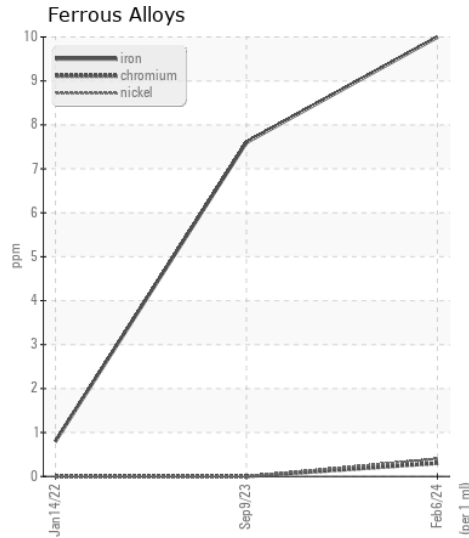
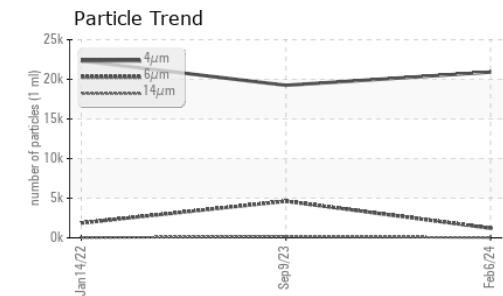
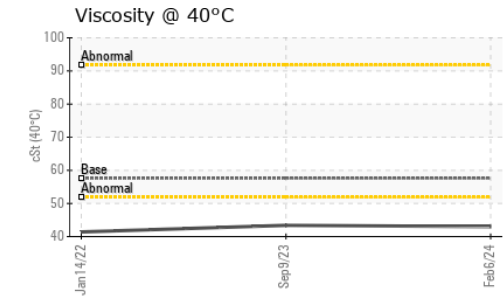
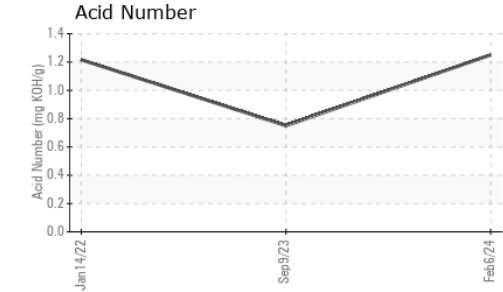
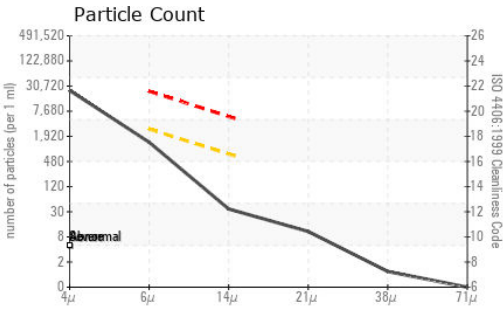
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>20916</b>	19244	22322
Particles >6µm		ASTM D7647	>2500	<b>1215</b>	▲ 4625	1866
Particles >14µm		ASTM D7647	>640	<b>31</b>	168	21
Particles >21µm		ASTM D7647	>160	<b>9</b>	28	6
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	<b>22/17/12</b>	▲ 21/19/15	22/18/12
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	4	<1
Boron	ppm	ASTM D5185m		<b>2</b>	0	0
Barium	ppm	ASTM D5185m		<b>5</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>4</b>	10	2
Calcium	ppm	ASTM D5185m		<b>327</b>	405	175
Phosphorus	ppm	ASTM D5185m		<b>632</b>	723	684
Zinc	ppm	ASTM D5185m		<b>856</b>	981	951
Sulfur	ppm	ASTM D5185m		<b>1912</b>	2406	1731
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.25</b>	0.75	1.216
Visc @ 40°C	cSt	ASTM D445	57.6	<b>43.0</b>	43.4	41.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0886882 **Received** : 23 Feb 2024  
**Lab Number** : 06098315 **Tested** : 26 Feb 2024  
**Unique Number** : 10896545 **Diagnosed** : 26 Feb 2024 - Don Baldrige  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
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 WICHITA, KS  
 US 67213  
 Contact: SHAWN SOUTH  
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 T: x:  
 F: x:

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)