



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**OKLAHOMA/3**  
Machine Id  
**39.63 [OKLAHOMA^3]**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0908794</b>	WC0908878	WC0874006
Sample Date		Client Info		<b>10 Jun 2024</b>	29 May 2024	18 Mar 2024
Machine Age	hrs	Client Info		<b>6052</b>	5870	5377
Oil Age	hrs	Client Info		<b>675</b>	493	2078
Filter Age	hrs	Client Info		<b>6052</b>	493	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>8</b>	13	11
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	5	4
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>5</b>	9	8
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

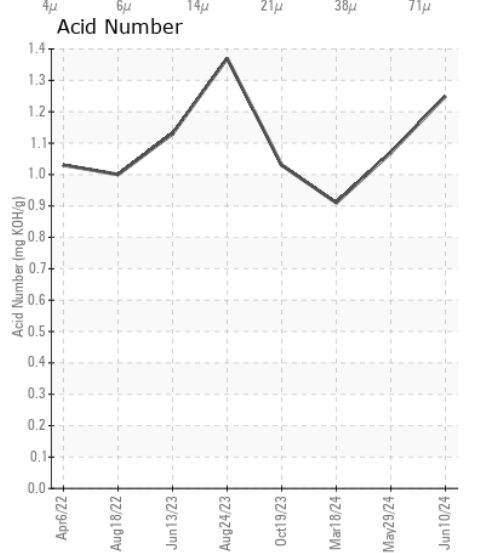
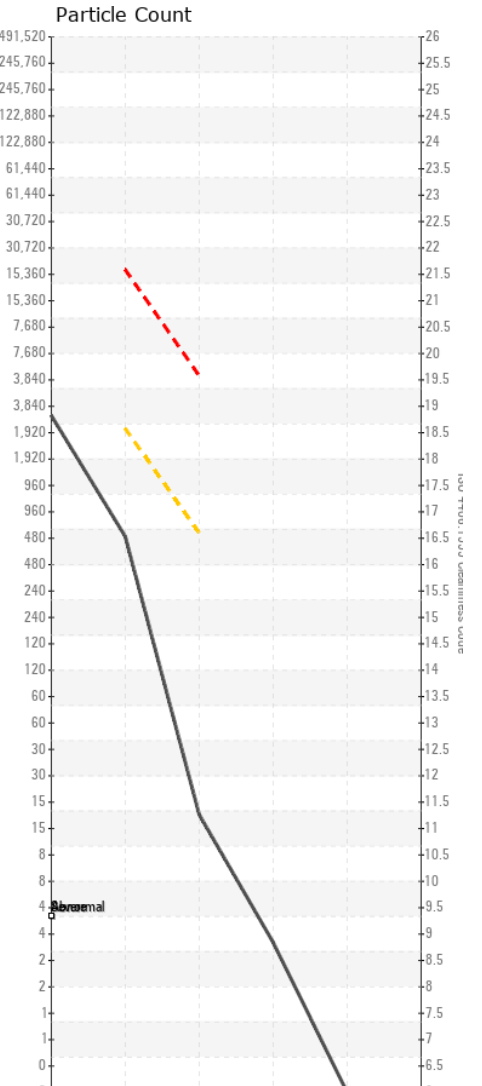
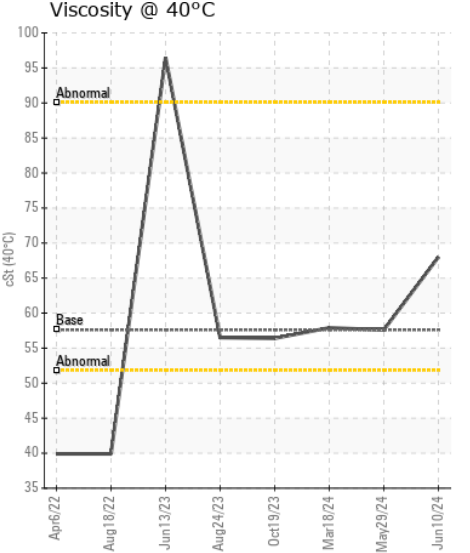
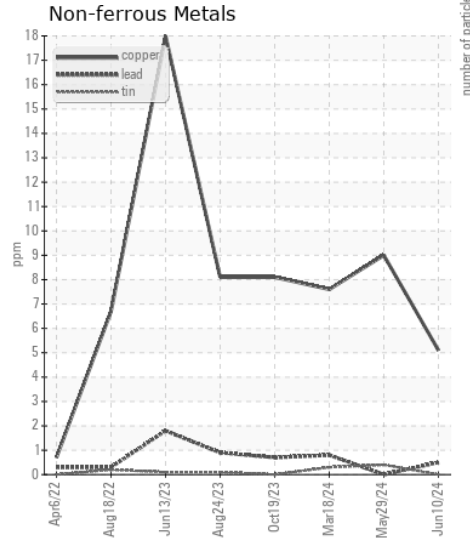
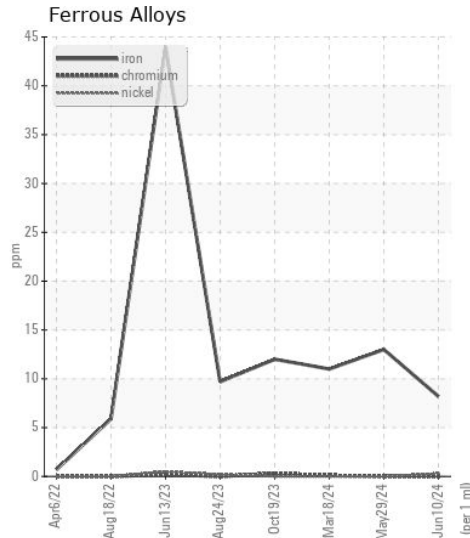
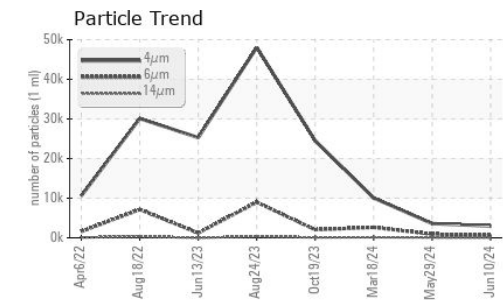
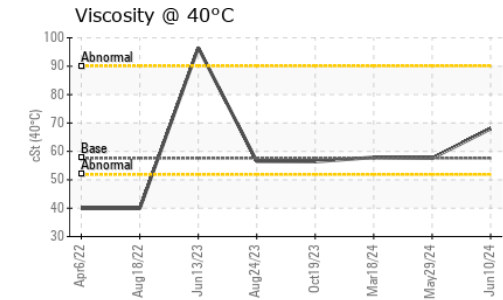
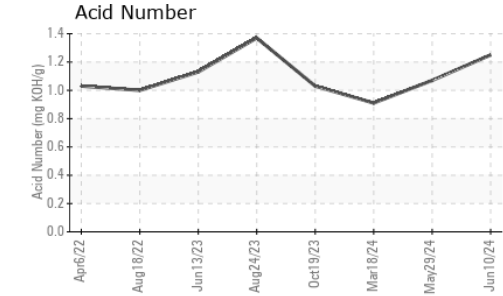
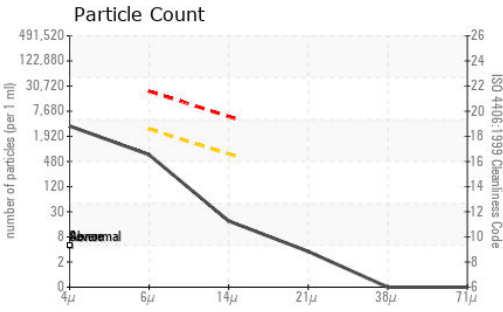
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>13</b>	18	14
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>2971</b>	3596	10066
Particles >6µm		ASTM D7647	>2500	<b>609</b>	926	2631
Particles >14µm		ASTM D7647	>640	<b>16</b>	63	131
Particles >21µm		ASTM D7647	>160	<b>3</b>	13	24
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	<b>19/16/11</b>	19/17/13	21/19/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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	>0.1	<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>4</b>	2	0
Boron	ppm	ASTM D5185m		<b>21</b>	18	14
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>15</b>	12	12
Calcium	ppm	ASTM D5185m		<b>2055</b>	1525	1373
Phosphorus	ppm	ASTM D5185m		<b>966</b>	909	722
Zinc	ppm	ASTM D5185m		<b>1155</b>	1066	950
Sulfur	ppm	ASTM D5185m		<b>4274</b>	3392	3044
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.25</b>	1.07	0.91
Visc @ 40°C	cSt	ASTM D445	57.6	<b>68.0</b>	57.6	57.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908794 **Received** : 20 Jun 2024  
**Lab Number** : 06215768 **Tested** : 21 Jun 2024  
**Unique Number** : 11088632 **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: SHAWN SOUTH  
 shawn.south@sherwood.net  
 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)