



# OIL ANALYSIS REPORT

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



Area  
**OKLAHOMA/102**  
Machine Id  
**76.37L [OKLAHOMA^102]**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: 1412 hrs )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0864284</b>	WC0819968	WC0746729
Sample Date		Client Info		<b>18 Dec 2023</b>	15 Jun 2023	10 May 2023
Machine Age	hrs	Client Info		<b>1412</b>	1175	1025
Oil Age	hrs	Client Info		<b>1412</b>	1025	858
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>5</b>	6	6
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	3
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>10</b>	10	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<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

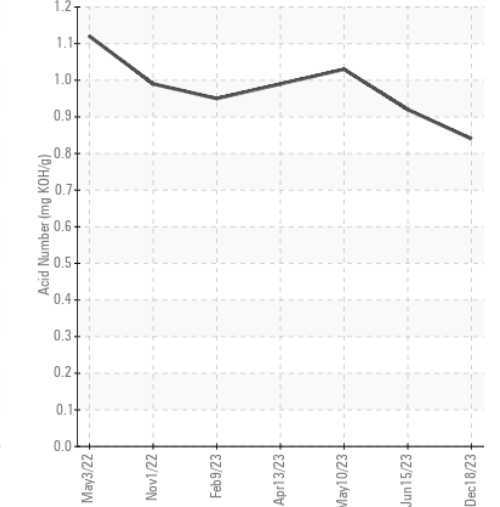
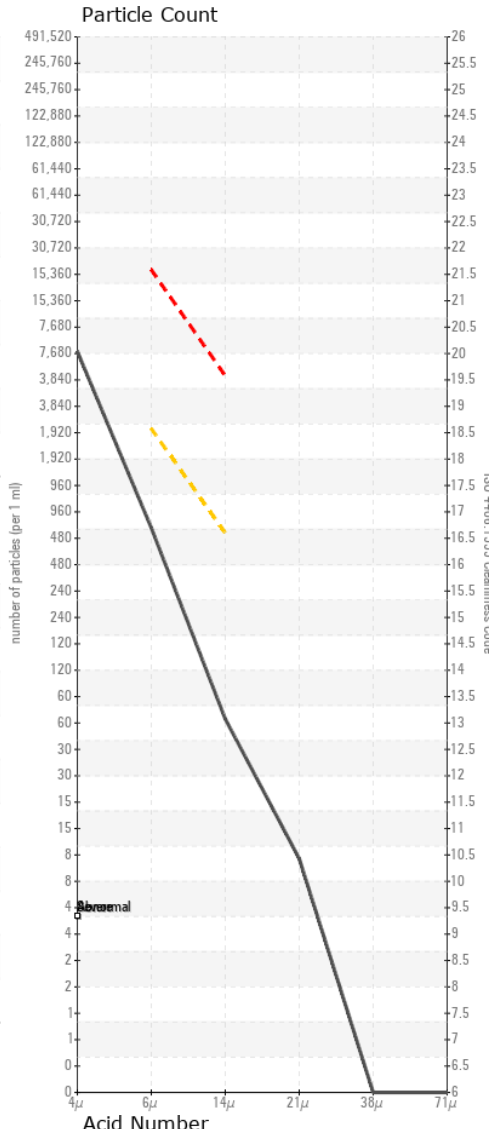
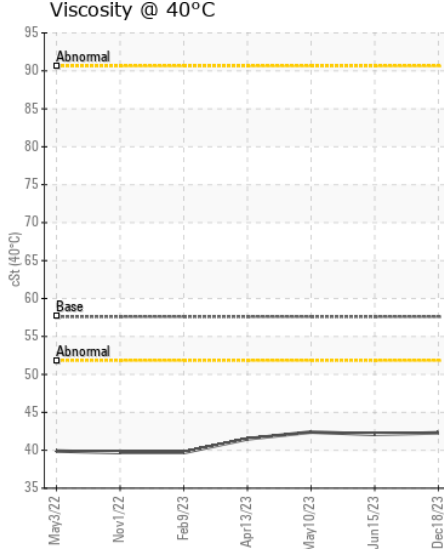
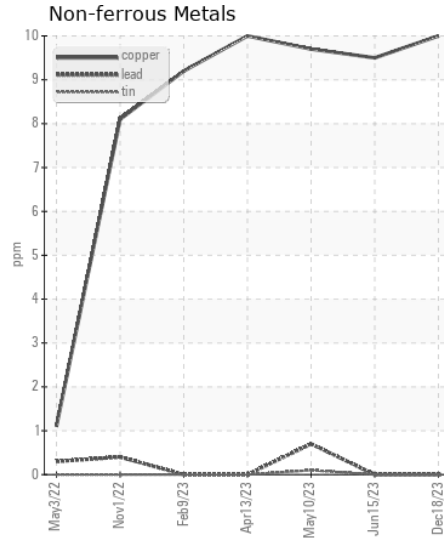
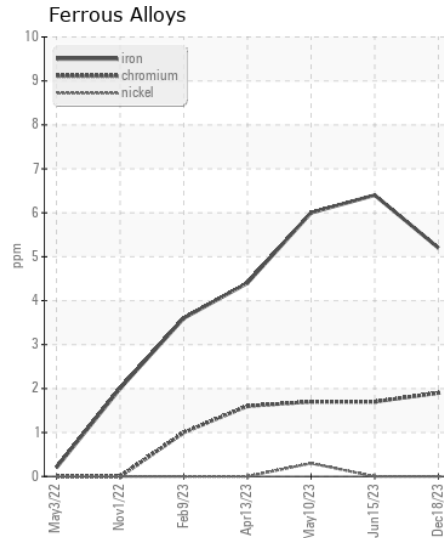
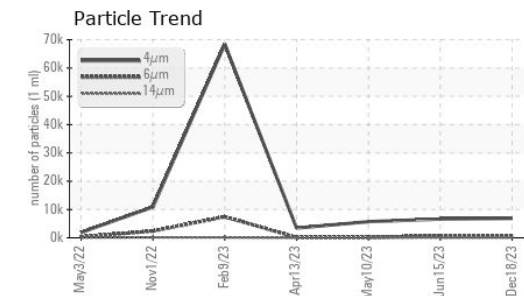
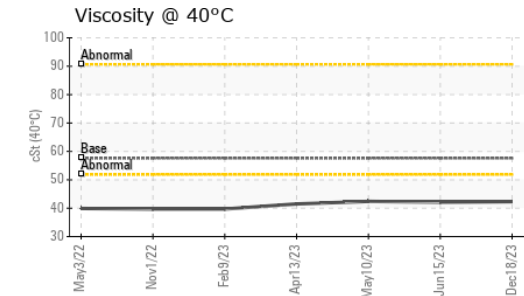
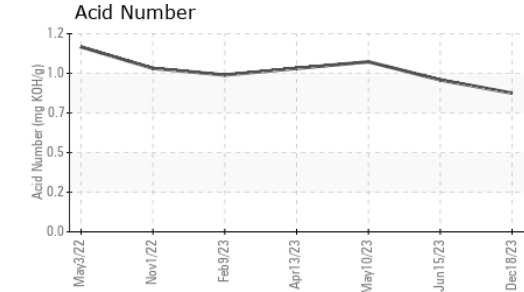
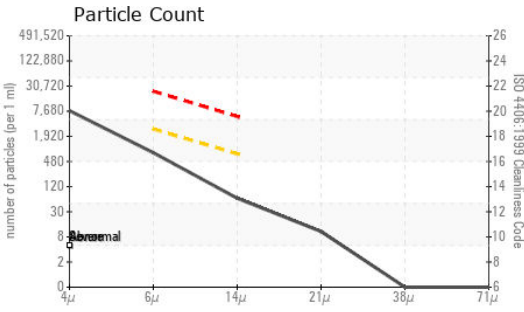
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	5
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>6878</b>	6619	5712
Particles >6µm		ASTM D7647	>2500	<b>683</b>	678	184
Particles >14µm		ASTM D7647	>640	<b>56</b>	62	8
Particles >21µm		ASTM D7647	>160	<b>9</b>	18	2
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	<b>20/17/13</b>	20/17/13	20/15/10
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	<1	2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Barium	ppm	ASTM D5185m		<b>0</b>	5	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>6</b>	12	9
Calcium	ppm	ASTM D5185m		<b>361</b>	426	377
Phosphorus	ppm	ASTM D5185m		<b>733</b>	816	754
Zinc	ppm	ASTM D5185m		<b>929</b>	1051	1001
Sulfur	ppm	ASTM D5185m		<b>1870</b>	2500	2478
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.84</b>	0.92	1.03
Visc @ 40°C	cSt	ASTM D445	57.6	<b>42.3</b>	42.1	42.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0864284 **Received** : 10 Jan 2024  
**Lab Number** : 06056607 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822556 **Diagnostician** : Doug Bogart  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
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 US 67213  
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 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)