

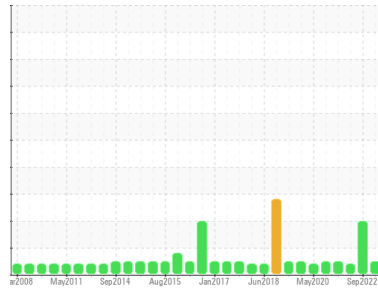


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/1151/EG - OTHER SERVICE**  
 Machine Id  
**48.03L [OKLAHOMA^1151^EG - OTHER SERVICE]**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0935295</b>	WC0726284	WC0607613
Sample Date	Client Info		<b>28 May 2024</b>	08 Sep 2022	05 Nov 2021
Machine Age	hrs	Client Info	<b>20672</b>	18692	18029
Oil Age	hrs	Client Info	<b>16026</b>	663	0
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>4</b>	7	13
Chromium	ppm	ASTM D5185m >10	<b>2</b>	0	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	3
Lead	ppm	ASTM D5185m >10	<b>0</b>	6	<1
Copper	ppm	ASTM D5185m >75	<b>2</b>	▲ 75	3
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	3	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>10</b>	0	29
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	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>8</b>	12	21
Calcium	ppm	ASTM D5185m	<b>1275</b>	2857	3134
Phosphorus	ppm	ASTM D5185m	<b>877</b>	1003	961
Zinc	ppm	ASTM D5185m	<b>1042</b>	1169	1126
Sulfur	ppm	ASTM D5185m	<b>3213</b>	6798	4065

## CONTAMINANTS

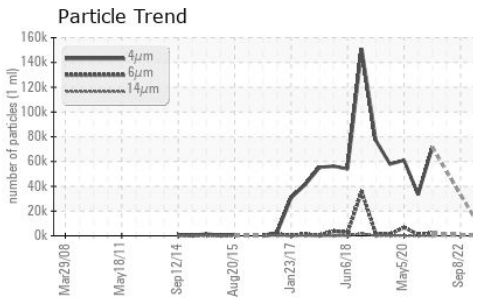
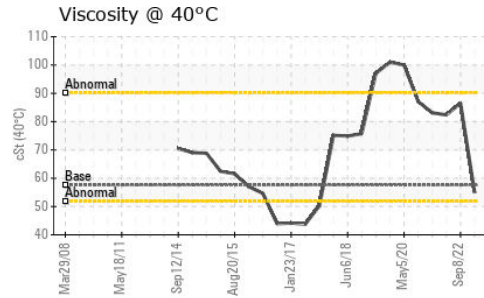
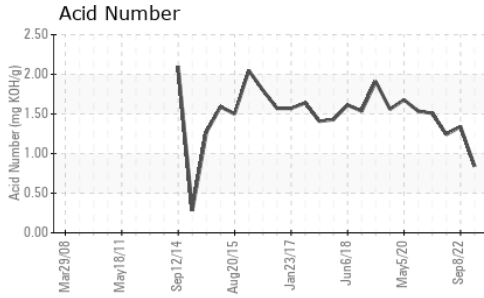
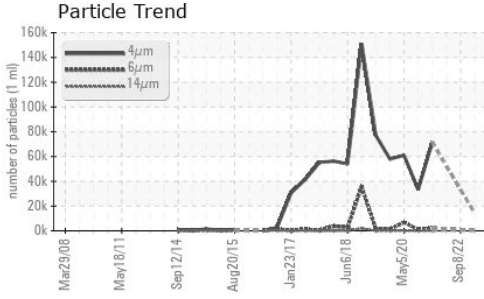
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	7	8
Sodium	ppm	ASTM D5185m	<b>4</b>	15	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>14375</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>455</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>24</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>5</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/18/16	<b>21/16/12</b>	---	---



# OIL ANALYSIS REPORT

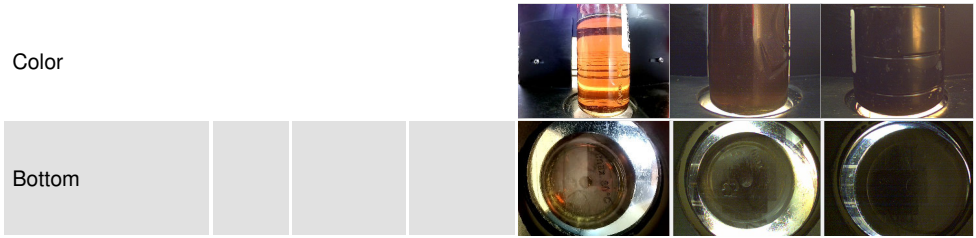


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.84</b>	1.34	1.241

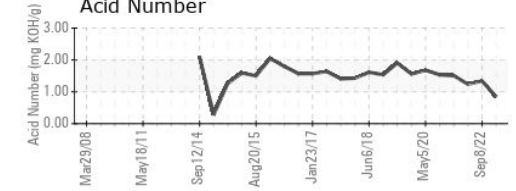
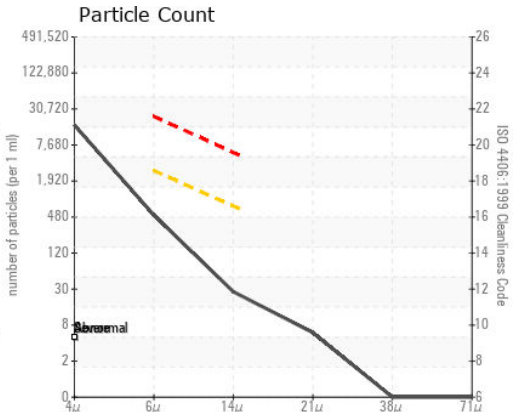
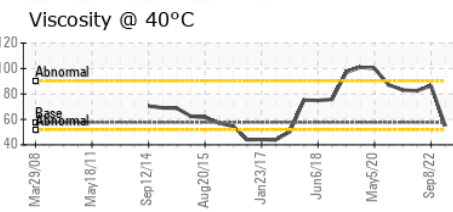
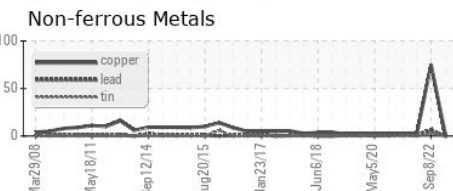
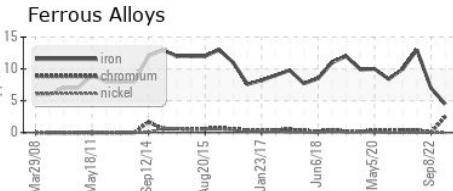
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	<b>54.9</b>	86.5	82.4

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0935295  
**Lab Number** : 06200058  
**Unique Number** : 11062181  
**Test Package** : CONST

**Received** : 05 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 07 Jun 2024 - Jonathan Hester

**SHERWOOD CONSTRUCTION CO INC**  
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 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 F: x:

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)