

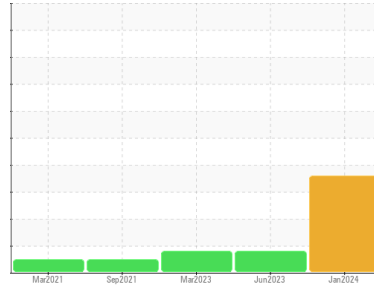


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/102**  
Machine Id  
**69.102L [OKLAHOMA^102]**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### 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>WC0873980</b>	WC0821849	WC0778374
Sample Date	Client Info		<b>08 Jan 2024</b>	16 Jun 2023	15 Mar 2023
Machine Age	hrs	Client Info	<b>5440</b>	5179	4832
Oil Age	hrs	Client Info	<b>500</b>	1927	2786
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## 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>9</b>	8	8
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	2	1
Copper	ppm	ASTM D5185m >75	<b>5</b>	<1	0
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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>20</b>	23	21
Barium	ppm	ASTM D5185m	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	<b>3</b>	4	4
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>18</b>	36	36
Calcium	ppm	ASTM D5185m	<b>1569</b>	1381	1342
Phosphorus	ppm	ASTM D5185m	<b>856</b>	861	761
Zinc	ppm	ASTM D5185m	<b>1029</b>	1115	1041
Sulfur	ppm	ASTM D5185m	<b>3195</b>	3584	3068

## CONTAMINANTS

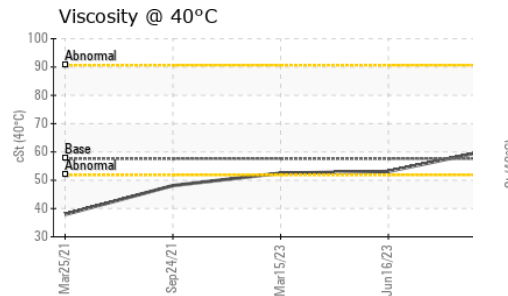
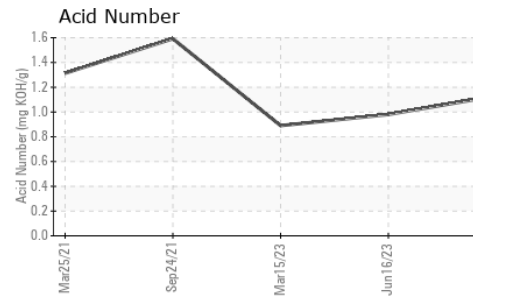
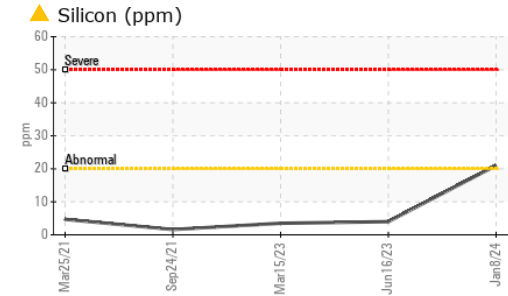
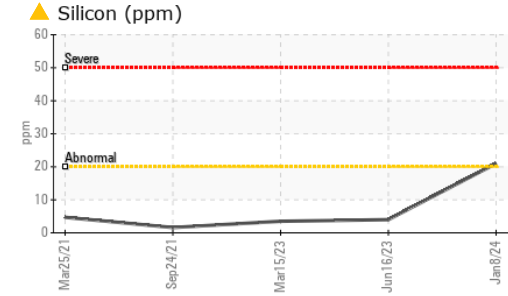
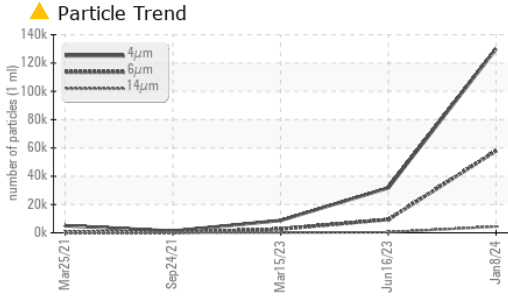
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>▲ 21</b>	4	4
Sodium	ppm	ASTM D5185m	<b>1</b>	<1	1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>129979</b>	31759	8719
Particles >6µm	ASTM D7647	>2500	<b>▲ 57890</b>	▲ 9396	▲ 2661
Particles >14µm	ASTM D7647	>640	<b>▲ 4431</b>	414	161
Particles >21µm	ASTM D7647	>160	<b>▲ 1050</b>	78	31
Particles >38µm	ASTM D7647	>40	<b>▲ 41</b>	1	0
Particles >71µm	ASTM D7647	>10	<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	<b>▲ 24/23/19</b>	▲ 22/20/16	▲ 20/19/15



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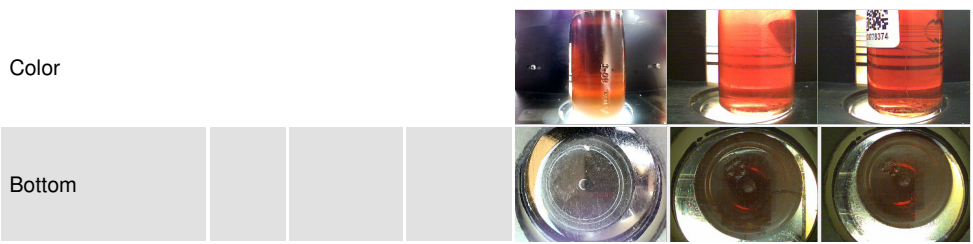


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.13</b>	0.98	0.89

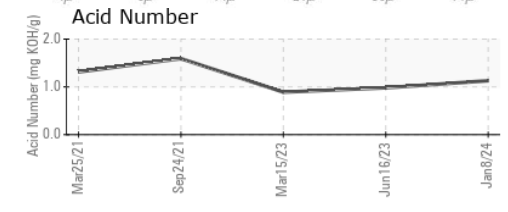
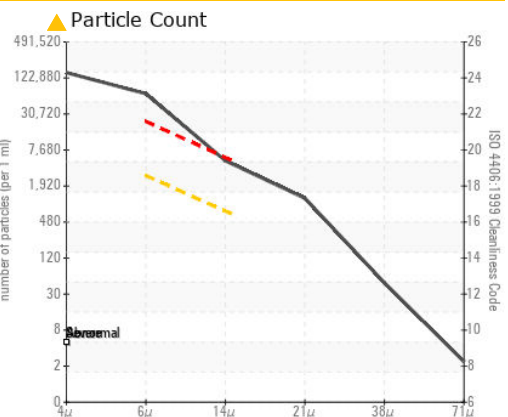
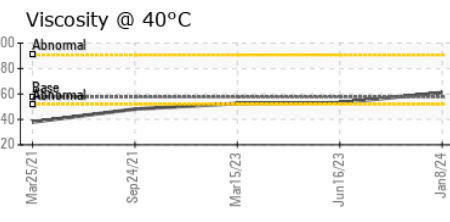
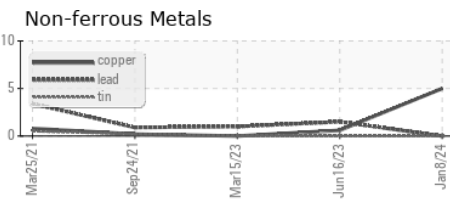
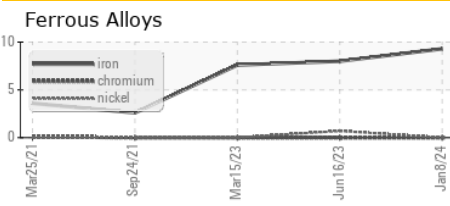
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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
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>61.1</b>	53.1	52.5

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0873980 **Received** : 16 Jan 2024  
**Lab Number** : 06060972 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832354 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 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)