



# OIL ANALYSIS REPORT

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



Area  
**COLORADO/443/{UNASSIGNED}**  
Machine Id  
**35.106L [COLORADO^443^{UNASSIGNED}]**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0883996</b>	WC0823190	WC0799147
Sample Date		Client Info		<b>22 Jan 2024</b>	19 Jul 2023	28 Mar 2023
Machine Age	hrs	Client Info		<b>2833</b>	2256	1797
Oil Age	hrs	Client Info		<b>2833</b>	2256	1797
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

The iron level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>▲ 23</b>	17	15
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>1</b>	1	2
Copper	ppm	ASTM D5185m	>75	<b>11</b>	10	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
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 amount and size of particulates present in the system are acceptable.

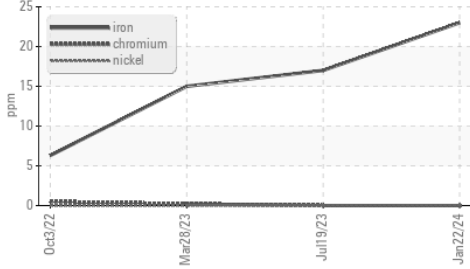
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>5184</b>	2277	1879
Particles >6µm		ASTM D7647	>2500	<b>657</b>	525	223
Particles >14µm		ASTM D7647	>640	<b>24</b>	32	10
Particles >21µm		ASTM D7647	>160	<b>3</b>	8	4
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	<b>20/17/12</b>	18/16/12	18/15/10
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

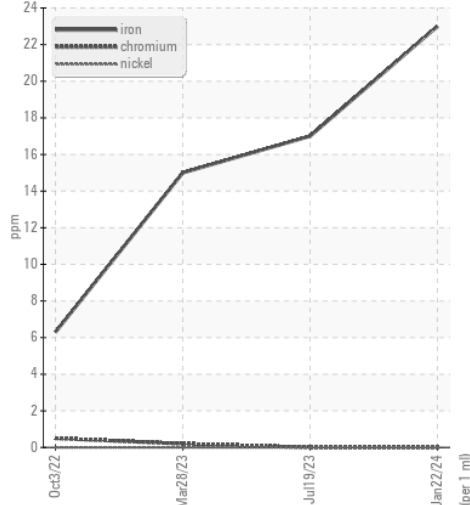
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>1</b>	2	<1
Boron	ppm	ASTM D5185m		<b>1</b>	<1	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	6	15
Calcium	ppm	ASTM D5185m		<b>373</b>	371	362
Phosphorus	ppm	ASTM D5185m		<b>653</b>	738	699
Zinc	ppm	ASTM D5185m		<b>885</b>	972	946
Sulfur	ppm	ASTM D5185m		<b>1892</b>	2445	2320
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.92</b>	1.22	1.03
Visc @ 40°C	cSt	ASTM D445	57.6	<b>42.4</b>	42.4	42.5

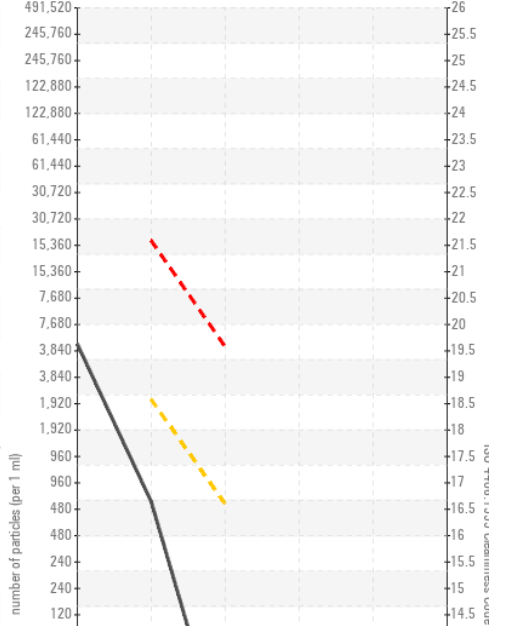
**▲ Ferrous Alloys**



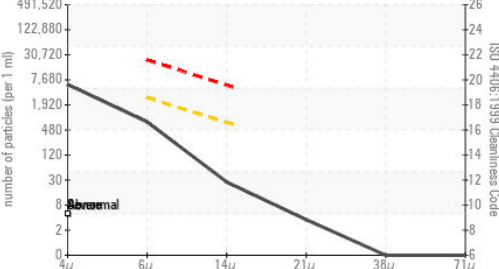
**▲ Ferrous Alloys**



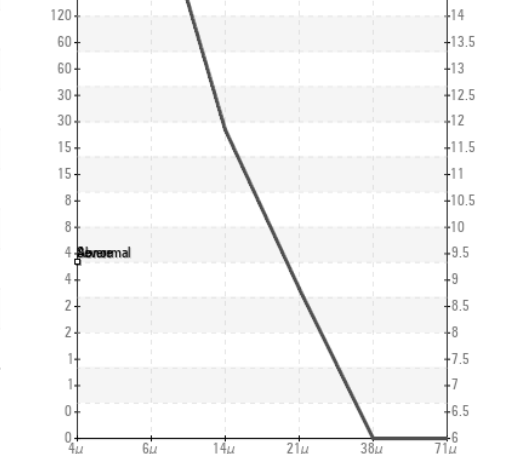
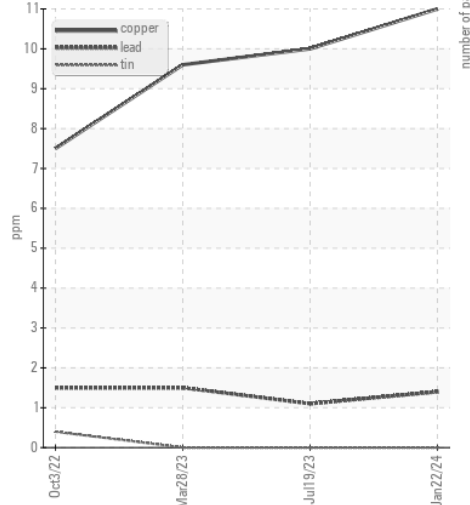
**Particle Count**



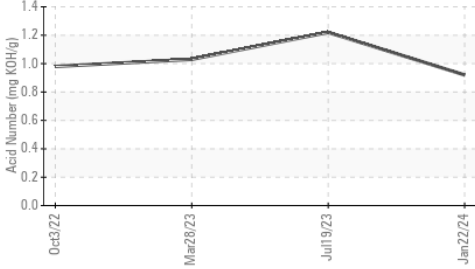
**Particle Count**



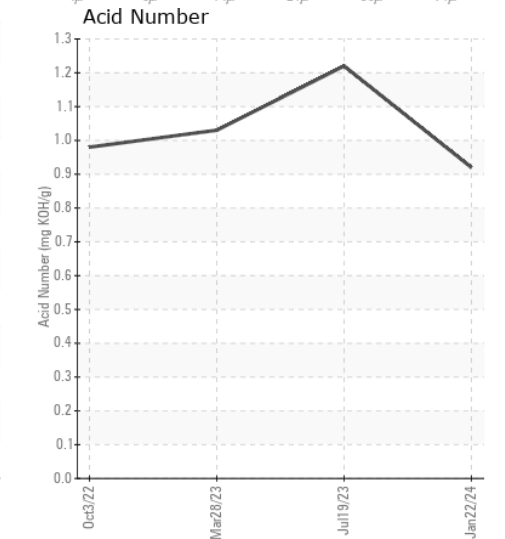
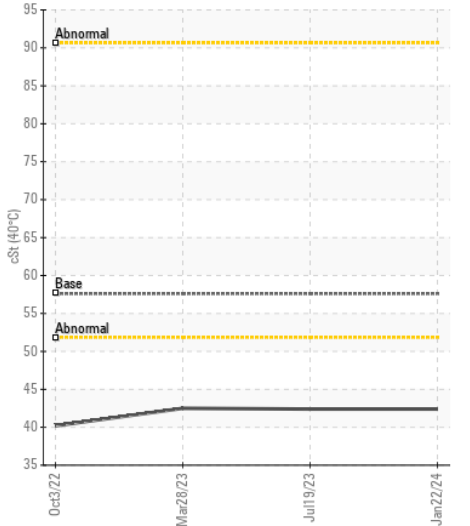
**Non-ferrous Metals**



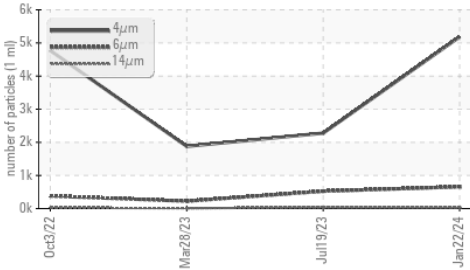
**Acid Number**



**Viscosity @ 40°C**



**Particle Trend**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0883996 **Received** : 30 Jan 2024  
**Lab Number** : 06073829 **Tested** : 31 Jan 2024  
**Unique Number** : 10855920 **Diagnosed** : 31 Jan 2024 - Angela Borella  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: BILL ORCUTT  
 william.orcutt@wildcat.net  
 T: (719)499-6303  
 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)