



# OIL ANALYSIS REPORT

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



Area  
**Mobile Fleet**  
Machine Id  
**5214 5214**  
Component  
**Transmission (Auto)**  
Fluid  
**MOBIL MOBILFLUID 424 (16 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0861923</b>	WC0867201	WC0834956
Sample Date		Client Info		<b>05 Jan 2024</b>	20 Oct 2023	24 Jul 2023
Machine Age	hrs	Client Info		<b>11449</b>	10920	10359
Oil Age	hrs	Client Info		<b>529</b>	2002	1441
Filter Age	hrs	Client Info		<b>529</b>	2002	1441
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>13</b>	26	23
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>50	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185m	>50	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>225	<b>12</b>	43	40
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>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

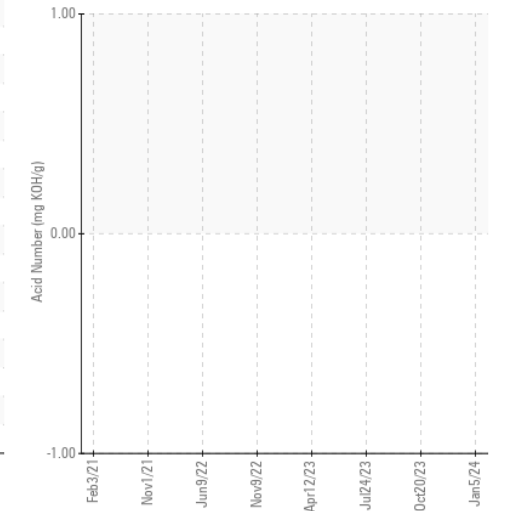
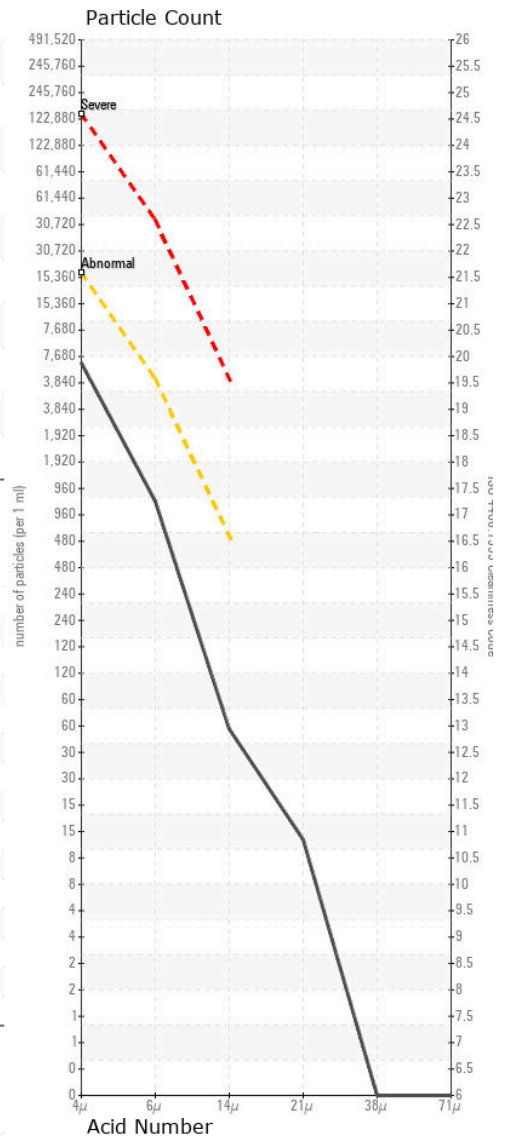
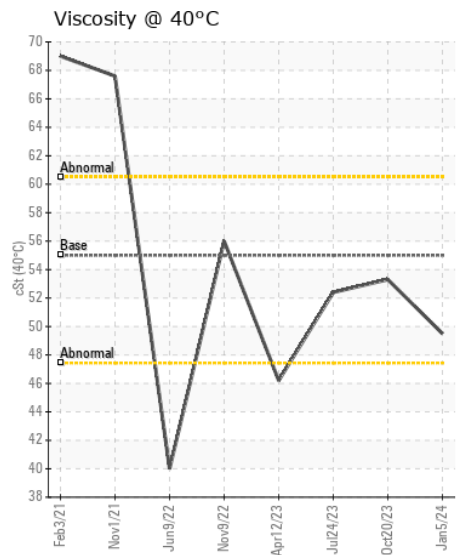
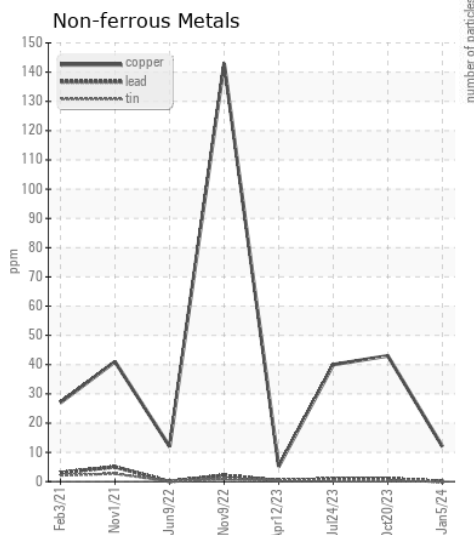
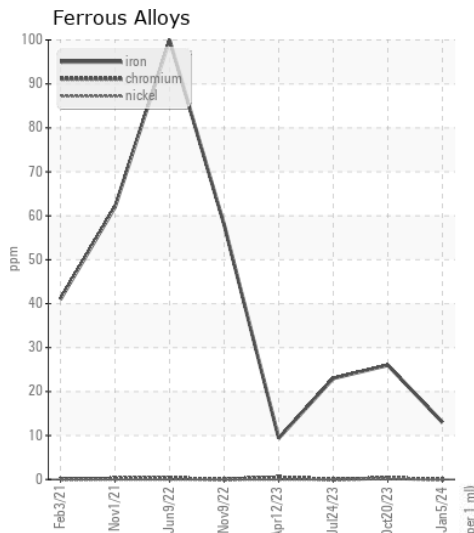
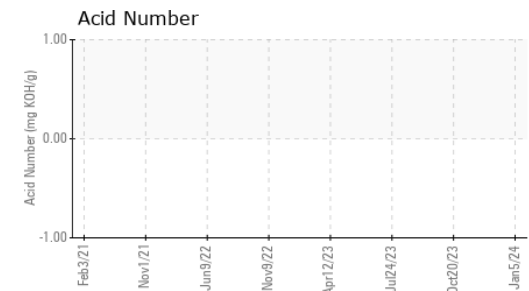
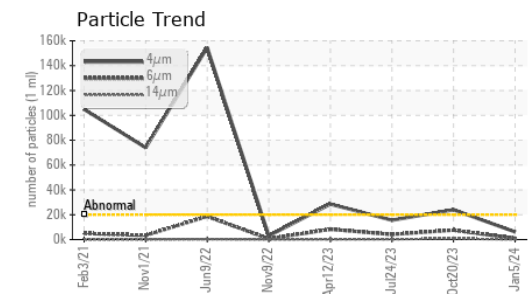
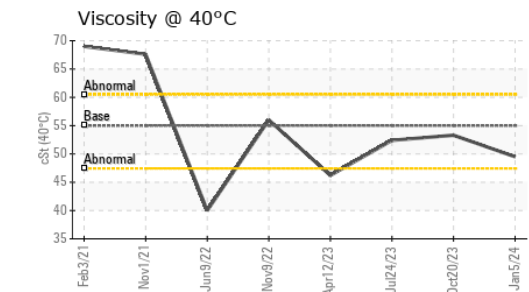
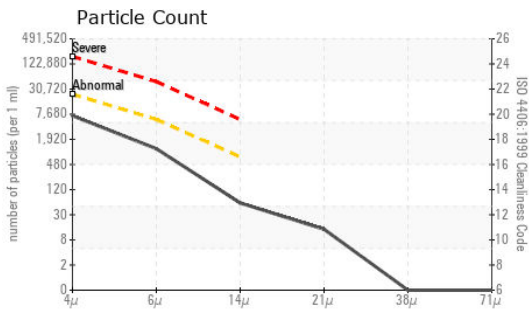
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>6156</b>	▲ 24028	15574
Particles >6µm		ASTM D7647	>5000	<b>1005</b>	▲ 7579	4110
Particles >14µm		ASTM D7647	>640	<b>51</b>	▲ 741	213
Particles >21µm		ASTM D7647	>160	<b>12</b>	▲ 194	29
Particles >38µm		ASTM D7647	>40	<b>0</b>	5	2
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>20/17/13</b>	▲ 22/20/17	21/19/15
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 condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	0
Boron	ppm	ASTM D5185m		<b>110</b>	78	87
Barium	ppm	ASTM D5185m		<b>0</b>	9	2
Molybdenum	ppm	ASTM D5185m		<b>19</b>	5	6
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>46</b>	39	44
Calcium	ppm	ASTM D5185m		<b>3195</b>	3140	3268
Phosphorus	ppm	ASTM D5185m		<b>1164</b>	1029	1087
Zinc	ppm	ASTM D5185m		<b>1257</b>	1289	1319
Sulfur	ppm	ASTM D5185m		<b>6698</b>	6294	6399
Visc @ 40°C	cSt	ASTM D445	55	<b>49.5</b>	53.3	52.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861923 **Received** : 09 Jan 2024  
**Lab Number** : 06055838 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821787 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount )

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)

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