



# OIL ANALYSIS REPORT

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

Area

**Mobile Fleet**

Machine Id

**6452 6452**

Component

**Hydraulic System**

Fluid

**MOBIL MOBILFLUID 424 (20 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0861888</b>	WC0867195	WC0771077
Sample Date		Client Info		<b>11 Jan 2024</b>	23 Oct 2023	06 Jul 2023
Machine Age	hrs	Client Info		<b>7401</b>	7036	6375
Oil Age	hrs	Client Info		<b>1035</b>	670	1118
Filter Age	hrs	Client Info		<b>1035</b>	670	1118
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

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

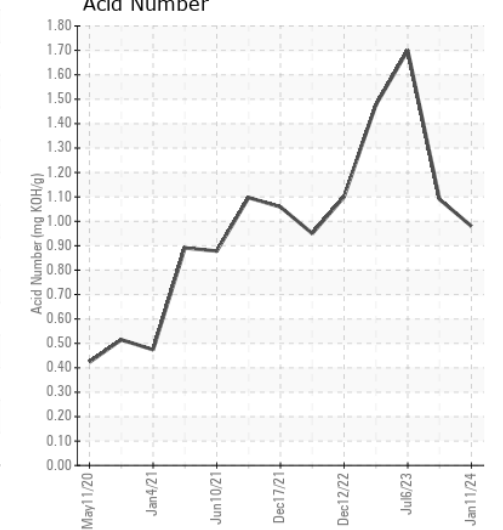
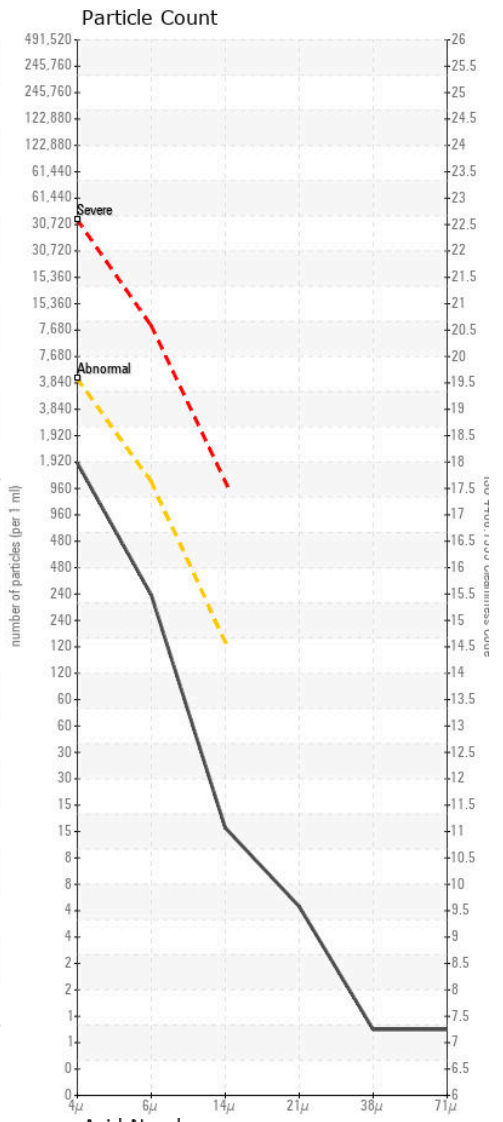
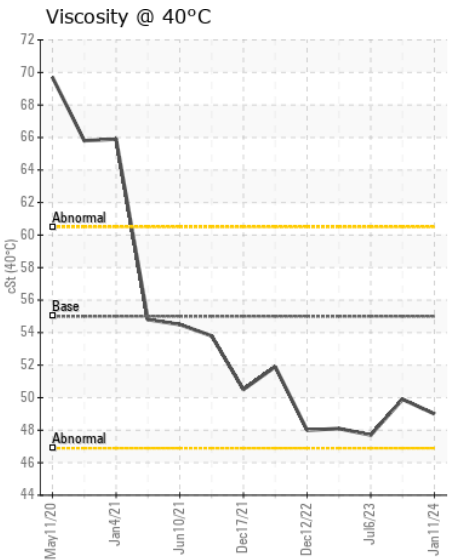
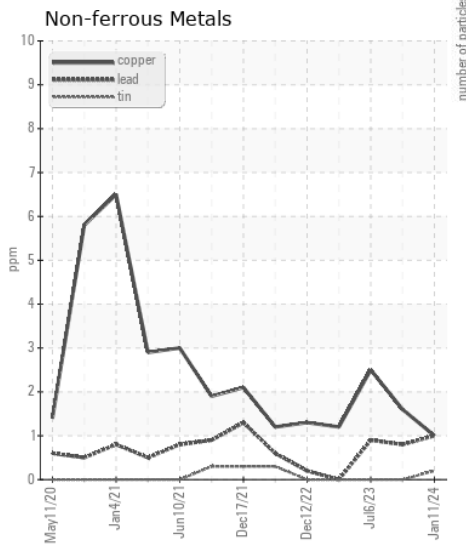
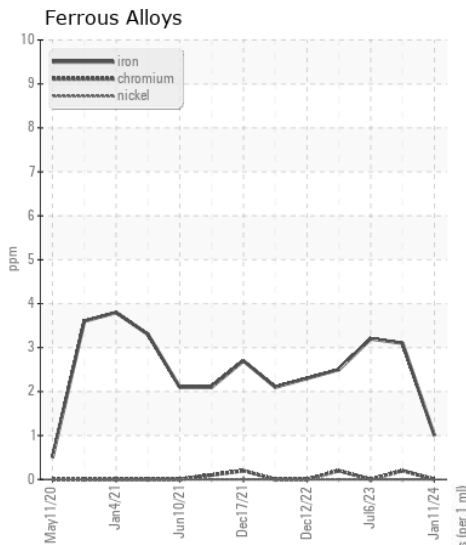
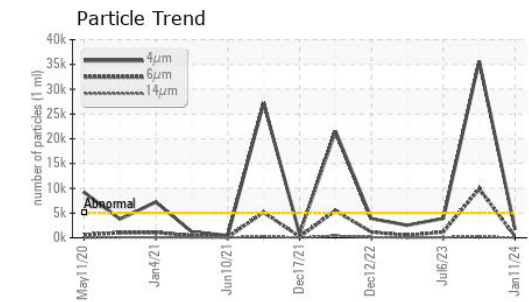
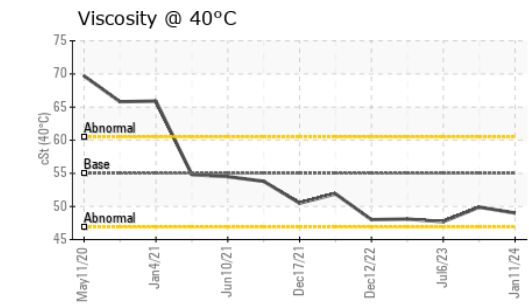
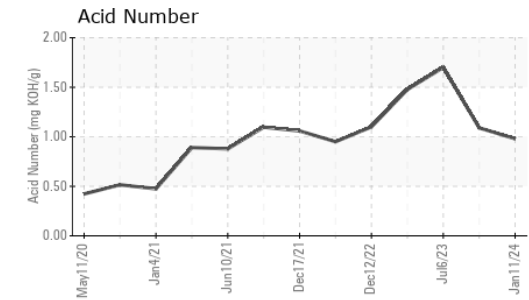
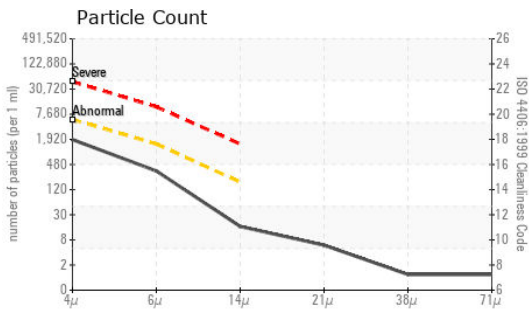
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>11</b>	15	8
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1659</b>	▲ 35687	3902
Particles >6µm		ASTM D7647	>1300	<b>295</b>	▲ 9892	1166
Particles >14µm		ASTM D7647	>160	<b>14</b>	▲ 246	86
Particles >21µm		ASTM D7647	>40	<b>5</b>	▲ 49	22
Particles >38µm		ASTM D7647	>10	<b>1</b>	2	2
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/15/11</b>	▲ 22/20/15	19/17/14
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	0
Boron	ppm	ASTM D5185m		<b>102</b>	140	117
Barium	ppm	ASTM D5185m		<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m		<b>10</b>	16	9
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>89</b>	62	64
Calcium	ppm	ASTM D5185m		<b>3045</b>	3673	3435
Phosphorus	ppm	ASTM D5185m		<b>1157</b>	1293	1110
Zinc	ppm	ASTM D5185m		<b>1356</b>	1534	1368
Sulfur	ppm	ASTM D5185m		<b>6987</b>	9028	7669
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.98</b>	1.09	1.70
Visc @ 40°C	cSt	ASTM D445	55	<b>49.0</b>	49.9	47.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861888 **Received** : 18 Jan 2024  
**Lab Number** : 06064181 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835563 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

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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)