



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**8022 8022**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL MOBILFLUID 424 (60 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>WC0947870</b>	WC0784552	WC0694978
Sample Date		Client Info		<b>19 Jun 2024</b>	02 Feb 2023	05 May 2022
Machine Age	hrs	Client Info		<b>15408</b>	13622	12336
Oil Age	hrs	Client Info		<b>1065</b>	1263	2027
Filter Age	hrs	Client Info		<b>1065</b>	1263	957
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	SEVERE	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>30	<b>5</b>	▲ 58	25
Chromium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	3	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>2	<b>3</b>	● 39	2
Lead	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>25	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

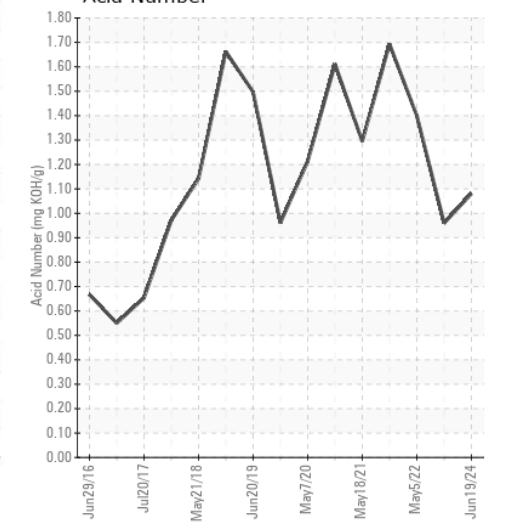
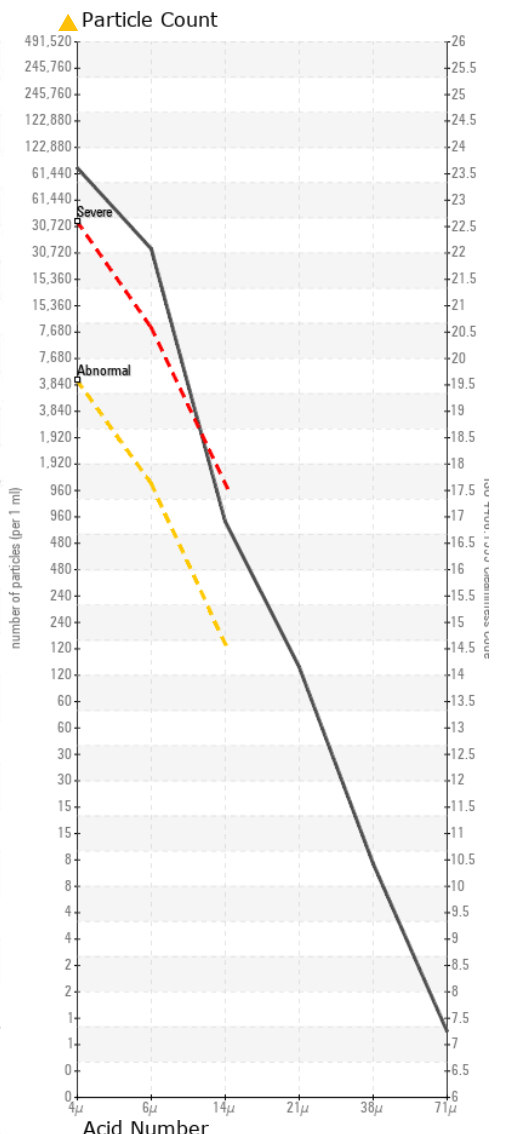
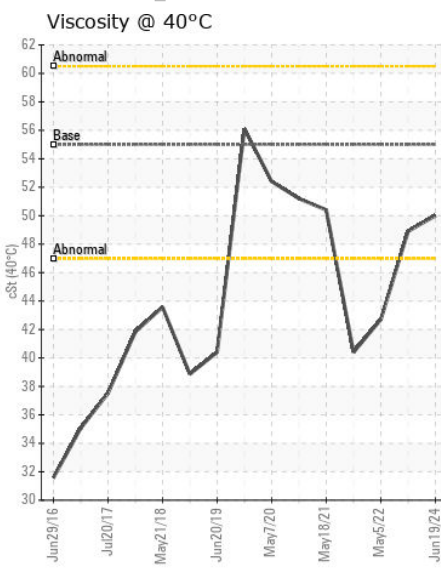
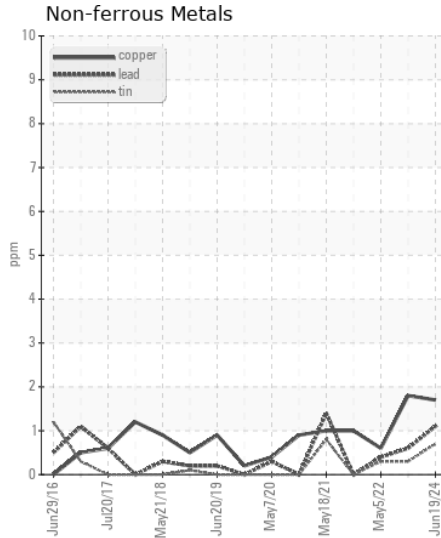
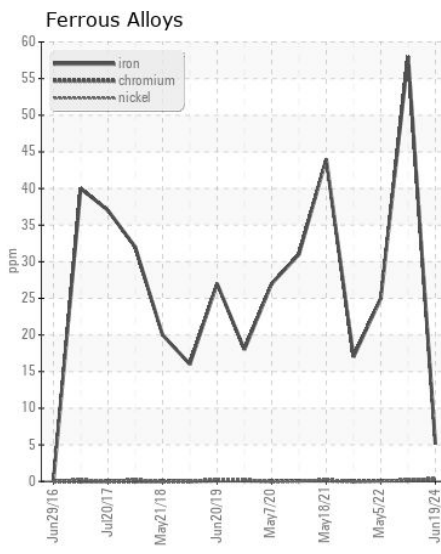
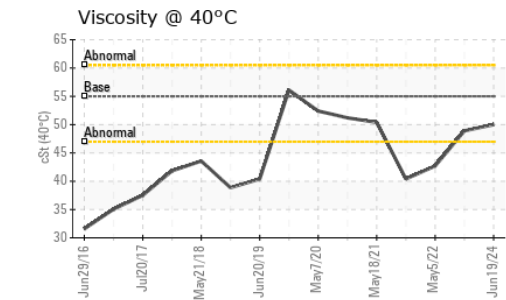
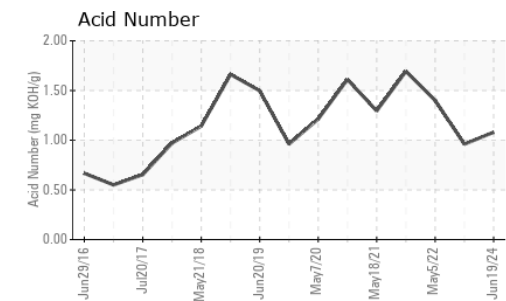
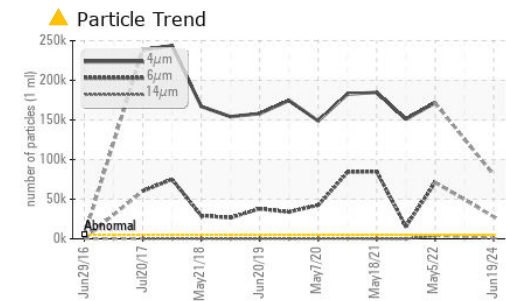
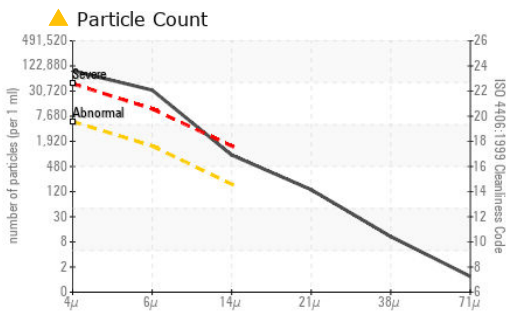
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	▲ 101	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	15	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ <b>80857</b>	---	▲ 171529
Particles >6µm		ASTM D7647	>1300	▲ <b>28073</b>	---	▲ 71066
Particles >14µm		ASTM D7647	>160	▲ <b>791</b>	---	▲ 3705
Particles >21µm		ASTM D7647	>40	▲ <b>118</b>	---	▲ 443
Particles >38µm		ASTM D7647	>10	<b>9</b>	---	▲ 12
Particles >71µm		ASTM D7647	>3	<b>1</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ <b>24/22/17</b>	---	▲ 25/23/19
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	LIGHT
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>0</b>	13	1
Boron	ppm	ASTM D5185m		<b>102</b>	79	32
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>13</b>	12	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>64</b>	177	506
Calcium	ppm	ASTM D5185m		<b>3066</b>	2412	988
Phosphorus	ppm	ASTM D5185m		<b>1172</b>	938	1020
Zinc	ppm	ASTM D5185m		<b>1387</b>	1236	1211
Sulfur	ppm	ASTM D5185m		<b>7371</b>	5863	4926
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.08</b>	0.96	1.40
Visc @ 40°C	cSt	ASTM D445	55	<b>50.0</b>	48.9	42.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947870  
**Lab Number** : 06216754  
**Unique Number** : 11089618  
**Test Package** : CONST  
**Received** : 21 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Jonathan Hester

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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)