



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6459 6459**  
 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>WC0939275</b>	WC0902942	WC0861594
Sample Date		Client Info		<b>16 May 2024</b>	09 Feb 2024	12 Dec 2023
Machine Age	hrs	Client Info		<b>3962</b>	3346	3064
Oil Age	hrs	Client Info		<b>319</b>	951	669
Filter Age	hrs	Client Info		<b>319</b>	951	669
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	1	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

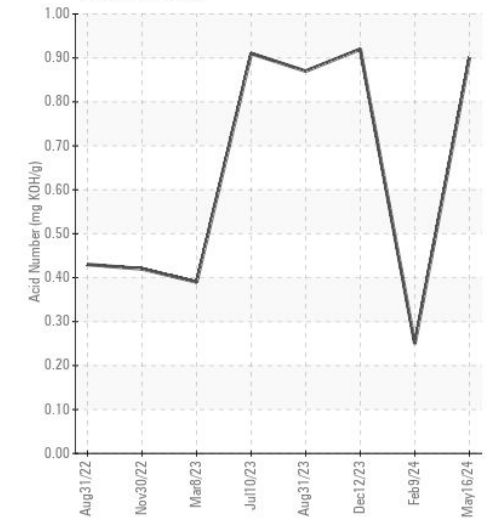
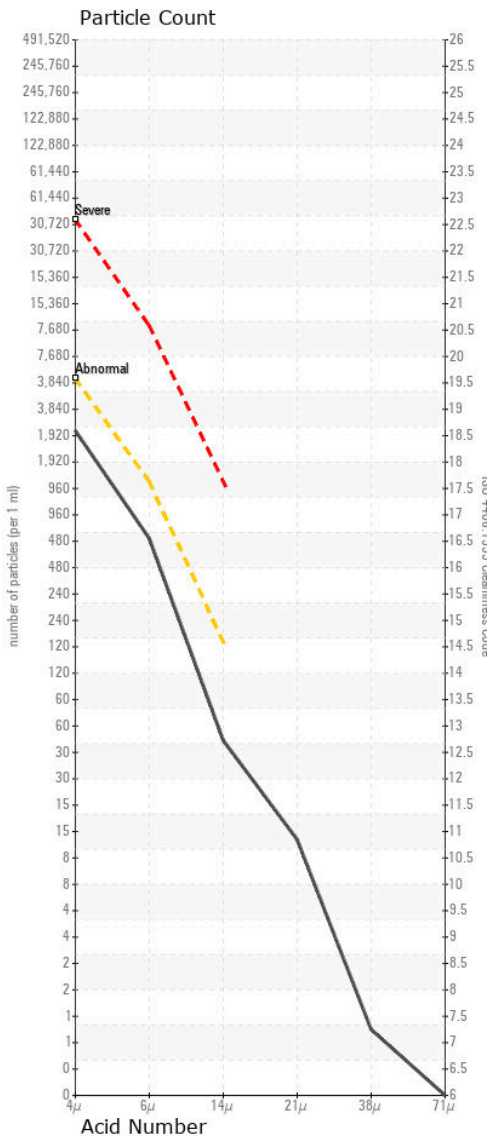
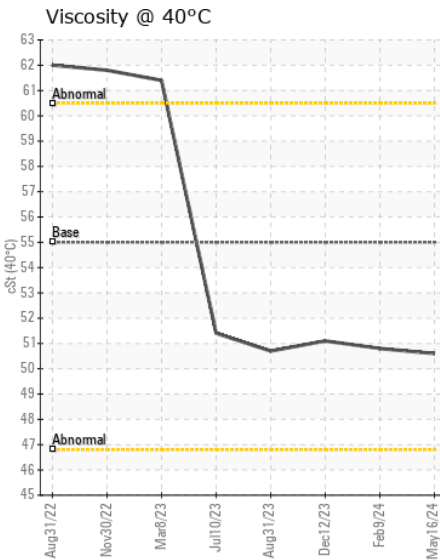
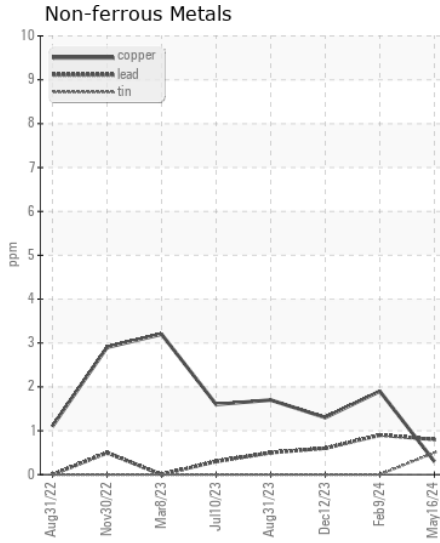
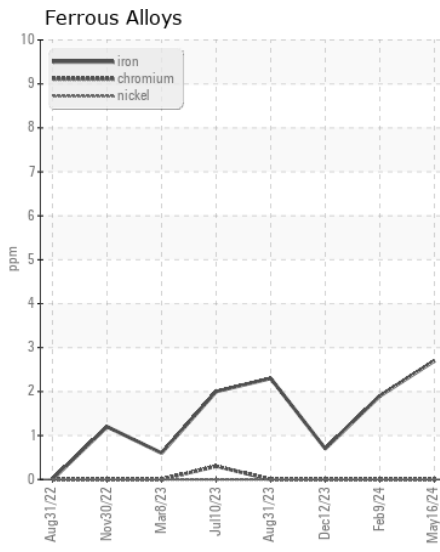
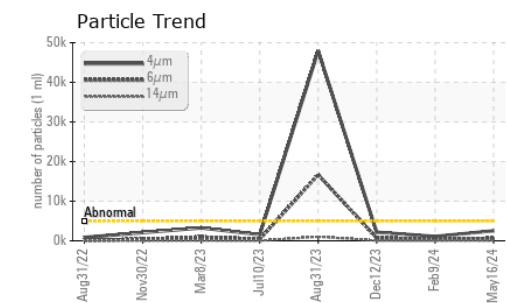
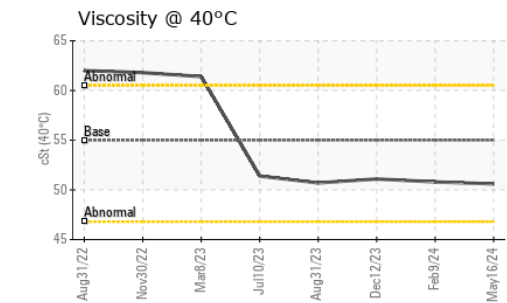
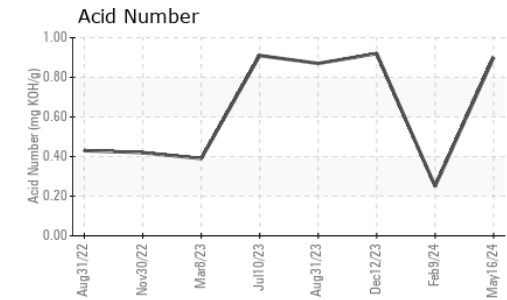
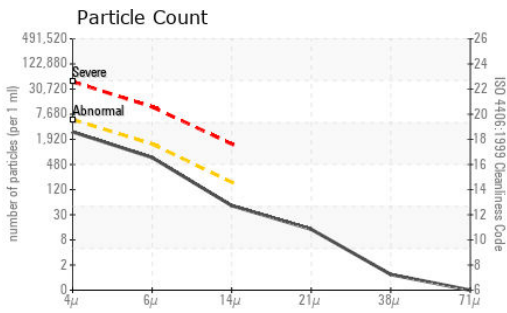
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>2533</b>	1109	2175
Particles >6µm		ASTM D7647	>1300	<b>618</b>	382	714
Particles >14µm		ASTM D7647	>160	<b>44</b>	42	62
Particles >21µm		ASTM D7647	>40	<b>12</b>	12	17
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/16/13</b>	17/16/13	18/17/13
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>123</b>	110	97
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>9</b>	11	11
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>77</b>	69	0
Calcium	ppm	ASTM D5185m		<b>3369</b>	3129	3085
Phosphorus	ppm	ASTM D5185m		<b>1159</b>	1071	1024
Zinc	ppm	ASTM D5185m		<b>1406</b>	1344	1281
Sulfur	ppm	ASTM D5185m		<b>8468</b>	6643	5964
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.90</b>	0.25	0.92
Visc @ 40°C	cSt	ASTM D445	55	<b>50.6</b>	50.8	51.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0939275

**Lab Number** : 06186010

**Unique Number** : 11042762

**Test Package** : CONST

**Received** : 21 May 2024

**Tested** : 22 May 2024

**Diagnosed** : 23 May 2024 - Don Baldrige

**CAROLINA SUNROCK**

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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)