



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6457 6457**  
 Component  
**Rear Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (5 GAL)**

## RECOMMENDATION

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

## WEAR

All component wear rates are normal.

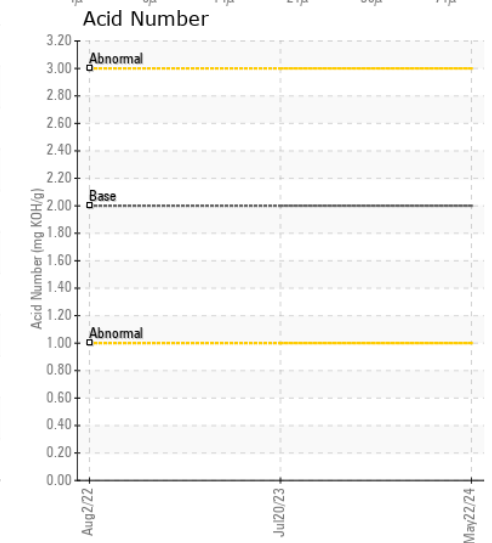
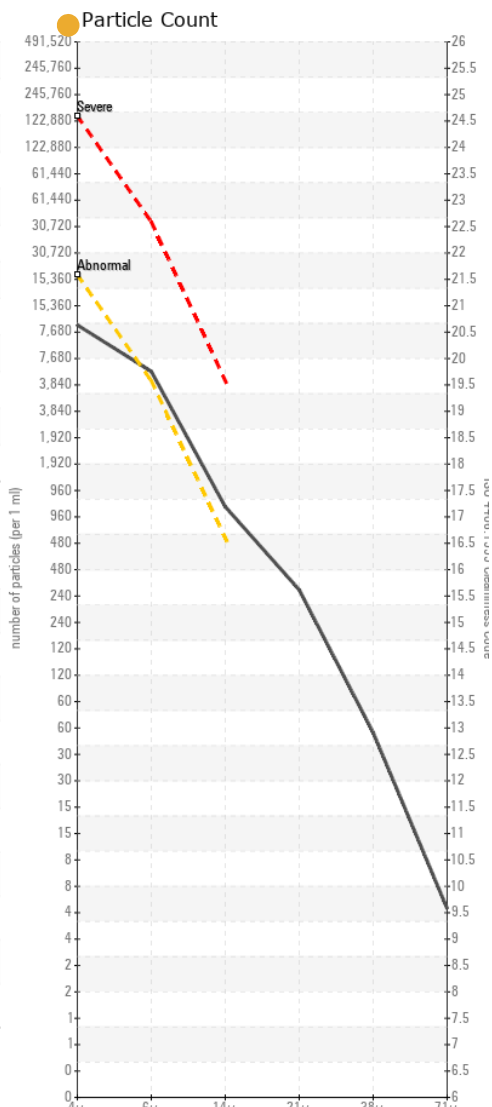
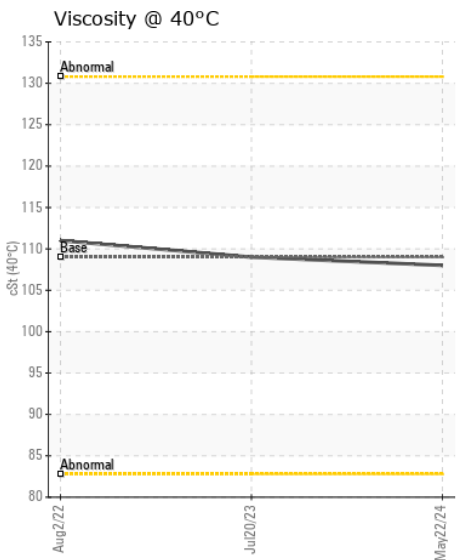
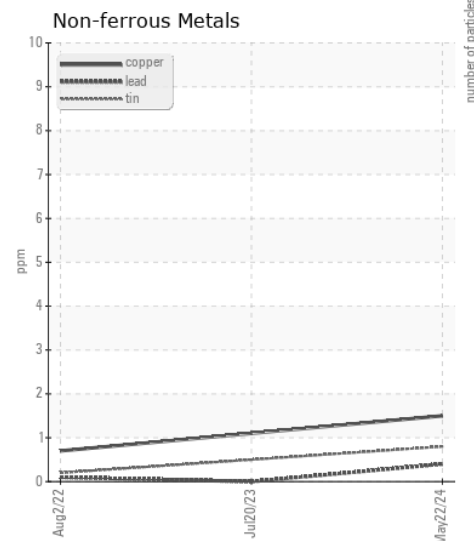
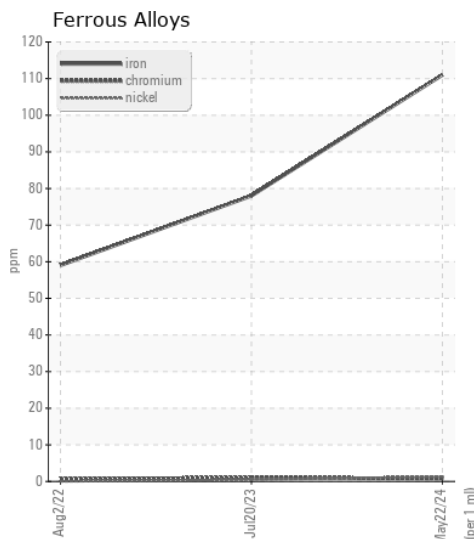
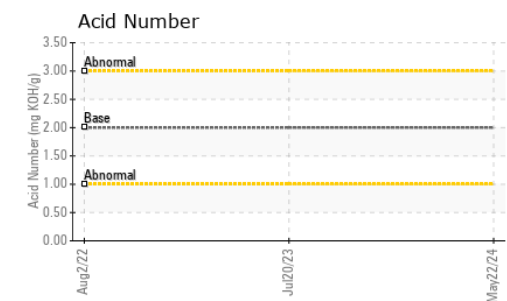
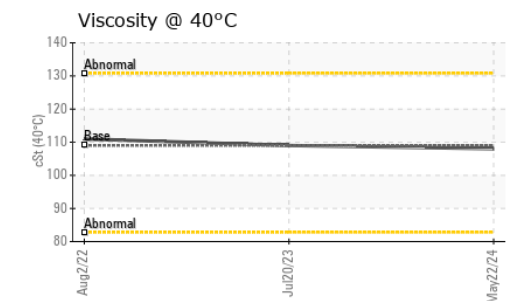
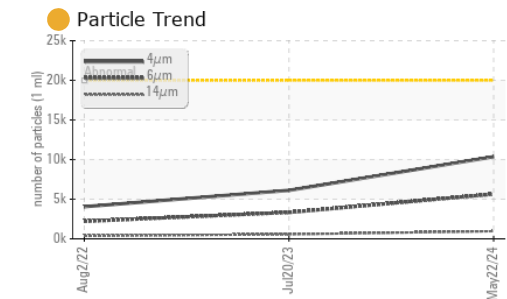
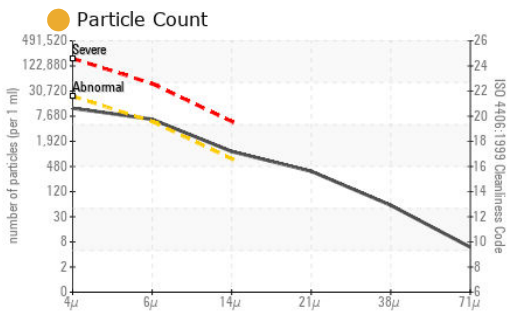
## CONTAMINATION

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

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0939286</b>	WC0808814	WC0726360
Sample Date		Client Info		<b>22 May 2024</b>	20 Jul 2023	02 Aug 2022
Machine Age	hrs	Client Info		<b>4174</b>	2236	37
Oil Age	hrs	Client Info		<b>4139</b>	2199	37
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	<b>111</b>	78	59
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>100	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>21</b>	19	16
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>10361</b>	6116	4054
Particles >6µm		ASTM D7647	>5000	<b>5644</b>	3332	2208
Particles >14µm		ASTM D7647	>640	<b>961</b>	567	376
Particles >21µm		ASTM D7647	>160	<b>324</b>	191	127
Particles >38µm		ASTM D7647	>40	<b>50</b>	29	20
Particles >71µm		ASTM D7647	>10	<b>5</b>	3	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/20/17</b>	20/19/16	19/18/16
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	>.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>11</b>	10	8
Boron	ppm	ASTM D5185m	400	<b>340</b>	297	337
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	3	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>12</b>	11	10
Magnesium	ppm	ASTM D5185m	12	<b>3</b>	2	1
Calcium	ppm	ASTM D5185m	150	<b>12</b>	12	11
Phosphorus	ppm	ASTM D5185m	1650	<b>1404</b>	1313	1305
Zinc	ppm	ASTM D5185m	125	<b>14</b>	18	12
Sulfur	ppm	ASTM D5185m	22500	<b>27827</b>	25101	25643
Visc @ 40°C	cSt	ASTM D445	109	<b>108</b>	109	111



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0939286 **Received** : 28 May 2024  
**Lab Number** : 06192738 **Tested** : 31 May 2024  
**Unique Number** : 11049490 **Diagnosed** : 31 May 2024 - Jonathan Hester  
**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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