



# OIL ANALYSIS REPORT

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

## Mobile Fleet

Machine Id  
**8035 8035**

Component  
**Rear Differential**

Fluid  
**MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (--- GAL)**

### RECOMMENDATION

The oil 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>WC0939238</b>	WC0740851	WC0485135
Sample Date		Client Info		<b>23 May 2024</b>	13 Sep 2022	10 Jul 2020
Machine Age	hrs	Client Info		<b>5978</b>	3119	2
Oil Age	hrs	Client Info		<b>5976</b>	3117	2
Filter Age	hrs	Client Info		<b>0</b>	0	2
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 691</b>	▲ 669	494
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	3	3
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	6	3
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>3</b>	4	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

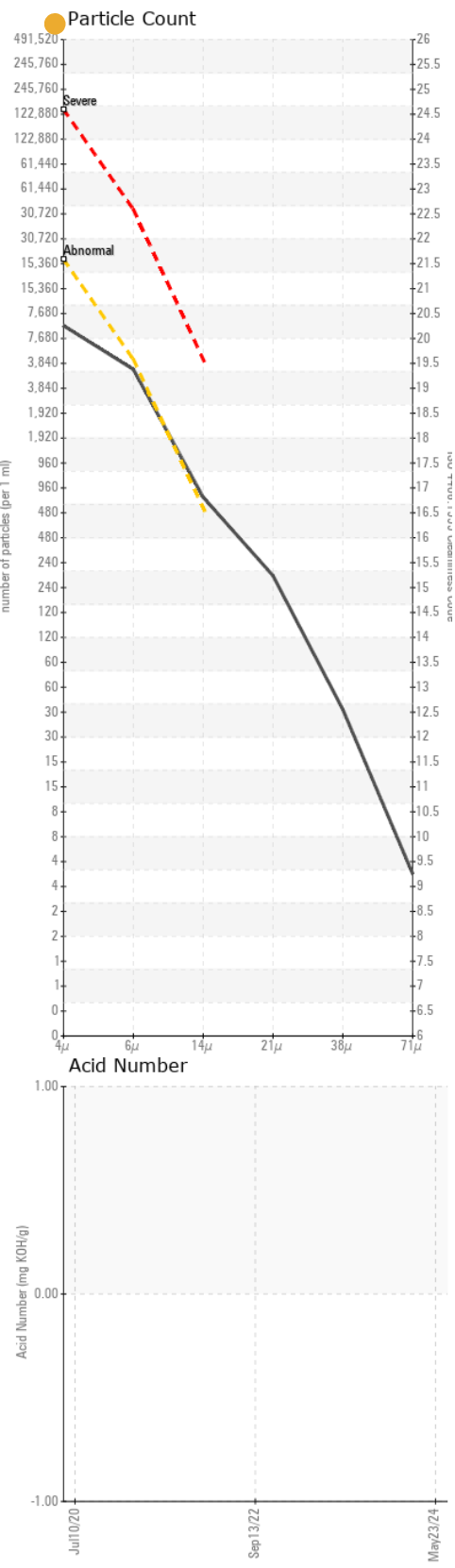
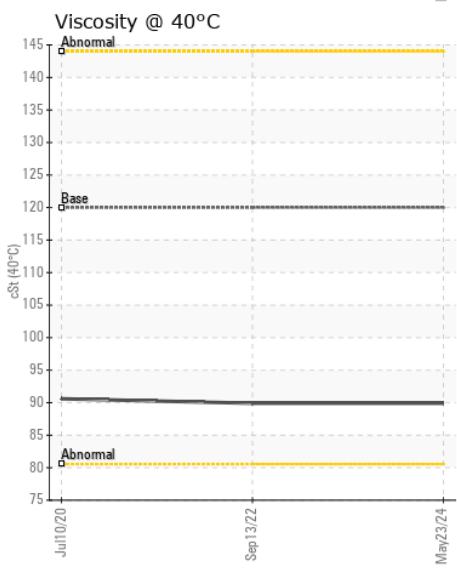
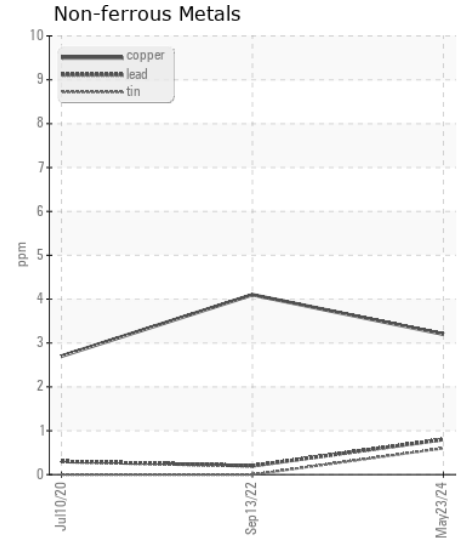
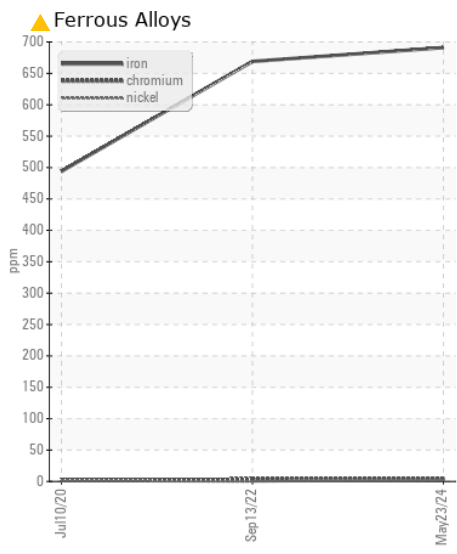
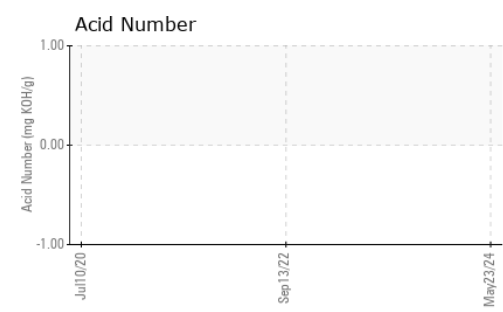
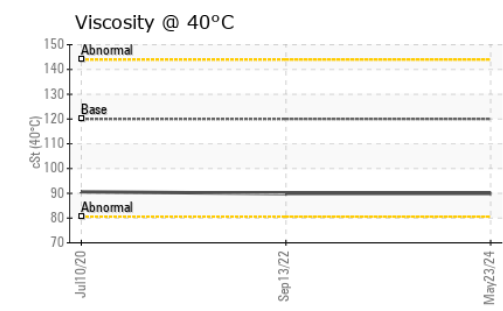
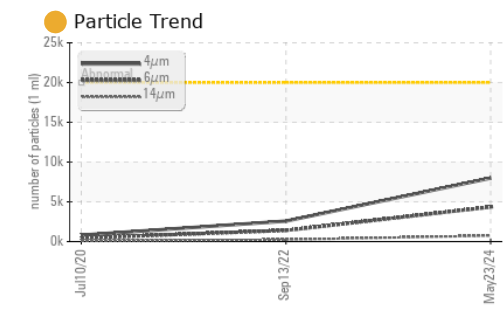
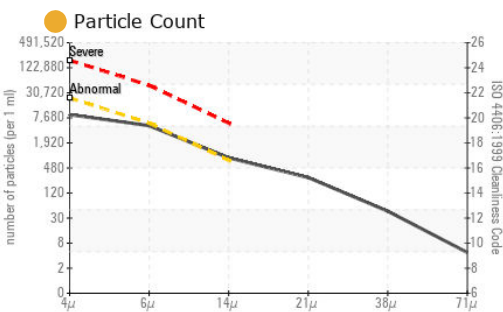
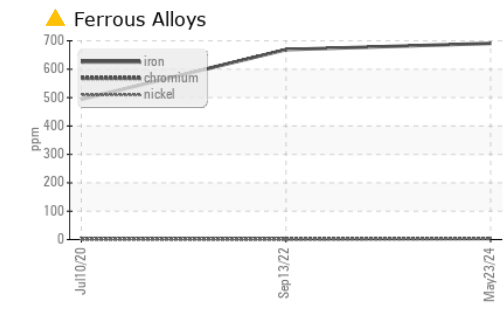
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>48</b>	51	62
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	12	9
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>7986</b>	2575	809
Particles >6µm		ASTM D7647	>5000	<b>4351</b>	1403	441
Particles >14µm		ASTM D7647	>640	<b>● 740</b>	239	75
Particles >21µm		ASTM D7647	>160	<b>● 249</b>	80	25
Particles >38µm		ASTM D7647	>40	<b>39</b>	12	4
Particles >71µm		ASTM D7647	>10	<b>4</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>● 20/19/17</b>	19/18/15	17/16/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE	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

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>19</b>	15	16
Boron	ppm	ASTM D5185m		<b>183</b>	221	162
Barium	ppm	ASTM D5185m		<b>1</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Manganese	ppm	ASTM D5185m		<b>12</b>	11	9
Magnesium	ppm	ASTM D5185m		<b>8</b>	5	2
Calcium	ppm	ASTM D5185m		<b>135</b>	134	146
Phosphorus	ppm	ASTM D5185m		<b>1337</b>	1318	1257
Zinc	ppm	ASTM D5185m		<b>97</b>	94	82
Sulfur	ppm	ASTM D5185m		<b>25255</b>	21443	11951
Visc @ 40°C	cSt	ASTM D445	120	<b>89.9</b>	89.9	90.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0939238 **Received** : 28 May 2024  
**Lab Number** : 06192731 **Tested** : 31 May 2024  
**Unique Number** : 11049483 **Diagnosed** : 31 May 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PrtCount )

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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)