



# OIL ANALYSIS REPORT

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

Area  
**Mobile Fleet**  
 Machine Id  
**6424 6424**  
 Component  
**Front Differential**  
 Fluid  
**MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0955975</b>	WC0808816	WC0694913
Sample Date		Client Info		<b>01 Jul 2024</b>	20 Jul 2023	28 Apr 2022
Machine Age	hrs	Client Info		<b>12260</b>	10833	8179
Oil Age	hrs	Client Info		<b>4076</b>	2649	4177
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>467</b>	428	174
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	12	2
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>44</b>	38	18
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

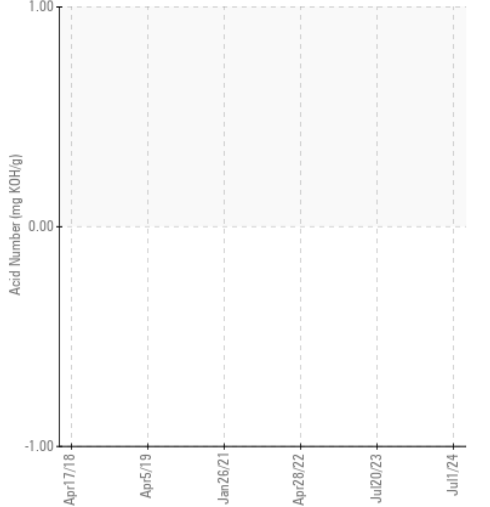
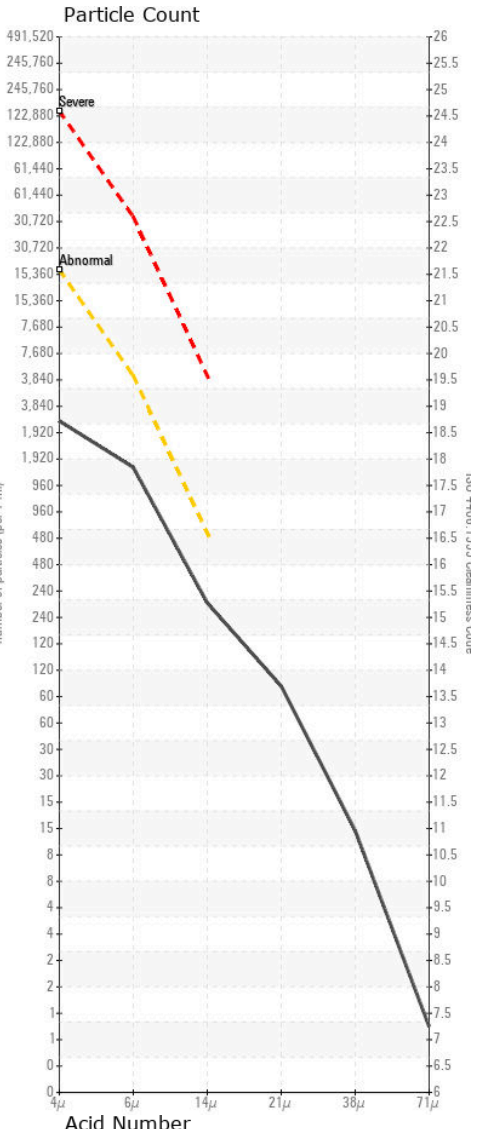
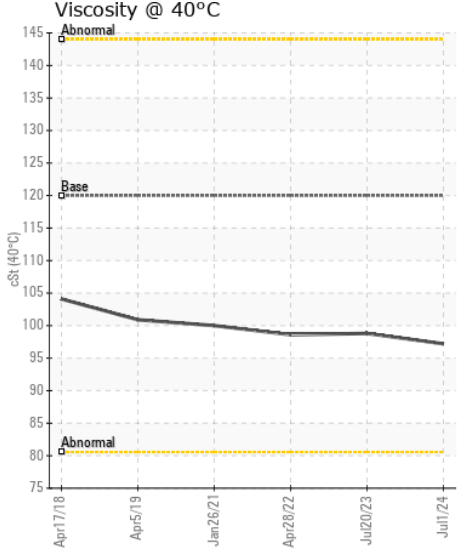
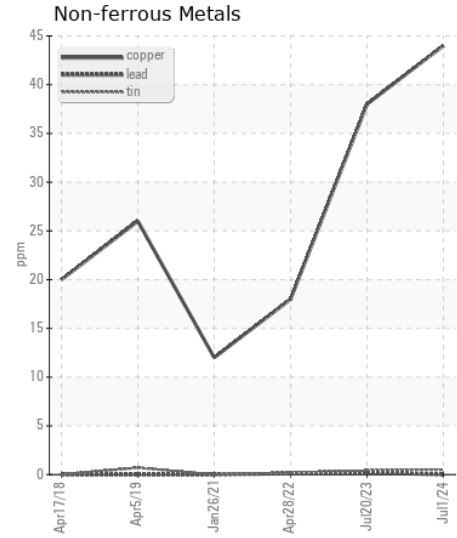
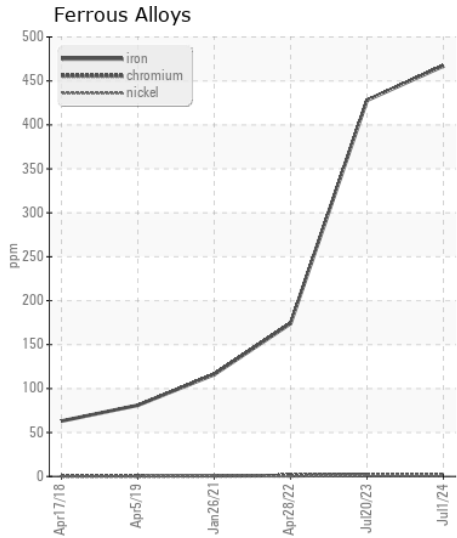
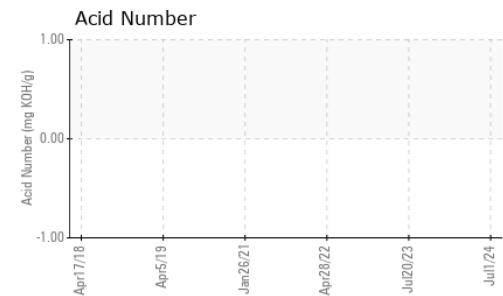
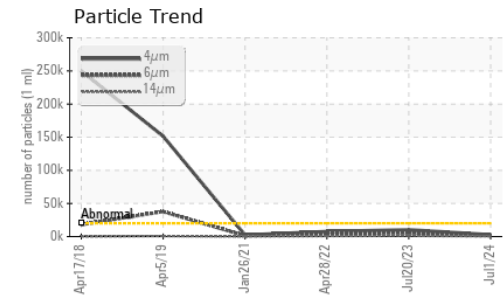
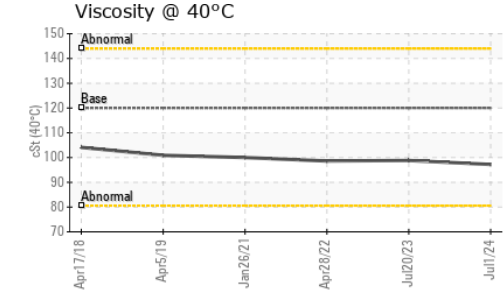
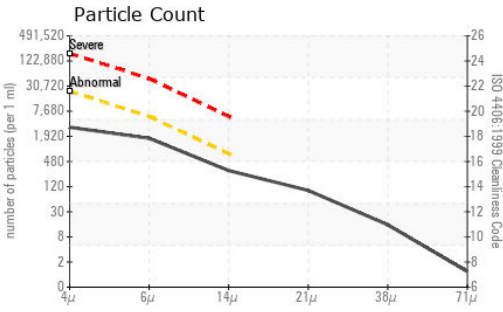
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	<b>20</b>	25	19
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	6	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>2767</b>	10361	7677
Particles >6µm		ASTM D7647	>5000	<b>1507</b>	5644	4182
Particles >14µm		ASTM D7647	>640	<b>256</b>	961	712
Particles >21µm		ASTM D7647	>160	<b>86</b>	324	240
Particles >38µm		ASTM D7647	>40	<b>13</b>	50	37
Particles >71µm		ASTM D7647	>10	<b>1</b>	5	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/18/15</b>	21/20/17	20/19/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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>6</b>	8	4
Boron	ppm	ASTM D5185m		<b>83</b>	79	310
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	4	1
Manganese	ppm	ASTM D5185m		<b>22</b>	21	11
Magnesium	ppm	ASTM D5185m		<b>31</b>	29	14
Calcium	ppm	ASTM D5185m		<b>41</b>	44	51
Phosphorus	ppm	ASTM D5185m		<b>1442</b>	1325	1302
Zinc	ppm	ASTM D5185m		<b>103</b>	99	48
Sulfur	ppm	ASTM D5185m		<b>26969</b>	24909	19115
Visc @ 40°C	cSt	ASTM D445	120	<b>97.2</b>	98.8	98.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0955975 **Received** : 05 Jul 2024  
**Lab Number** : 06228416 **Tested** : 09 Jul 2024  
**Unique Number** : 11111909 **Diagnosed** : 09 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount )

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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)