



# OIL ANALYSIS REPORT

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

Area  
**Contracting**  
Machine Id  
**7209 7209**  
Component  
**Front Differential**  
Fluid  
**MOBIL MOBILFLUID 424 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. 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>WC0939395</b>	WC0819018	WC0585578
Sample Date		Client Info		<b>16 May 2024</b>	28 Jun 2023	03 Sep 2021
Machine Age	hrs	Client Info		<b>6387</b>	5888	3301
Oil Age	hrs	Client Info		<b>499</b>	1288	892
Filter Age	hrs	Client Info		<b>499</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>56</b>	49	33
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	<1	0
Lead	ppm	ASTM D5185m	>25	<b>9</b>	7	3
Copper	ppm	ASTM D5185m	>100	<b>18</b>	22	6
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	<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

## CONTAMINATION

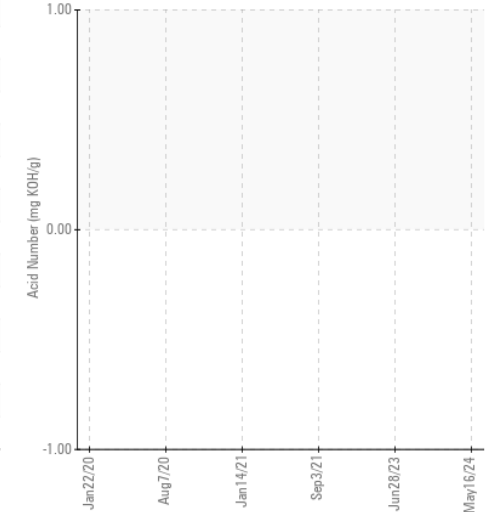
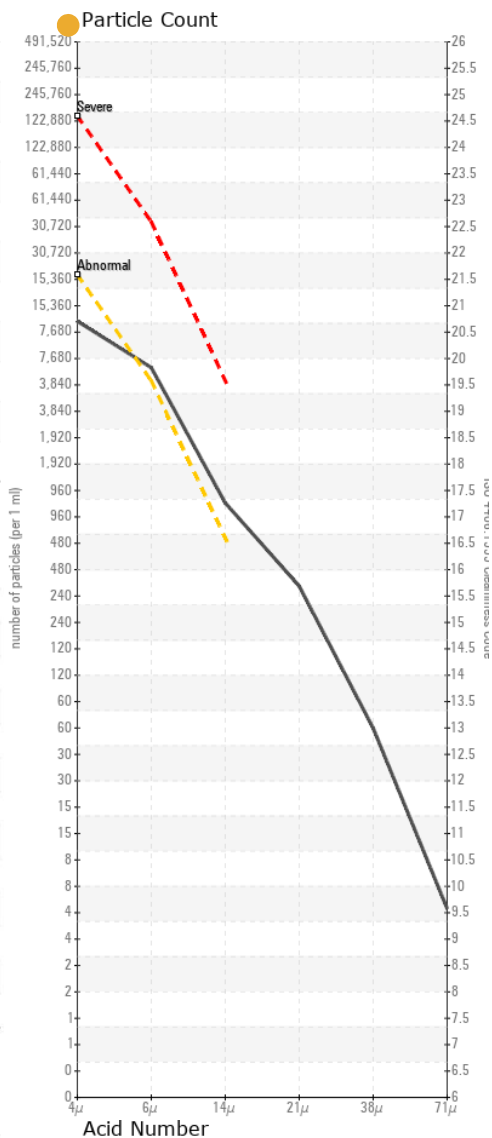
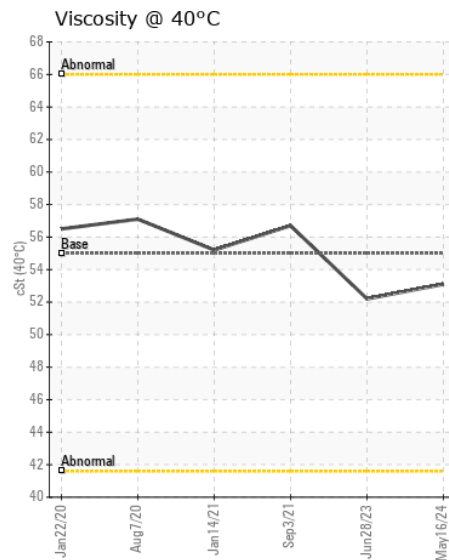
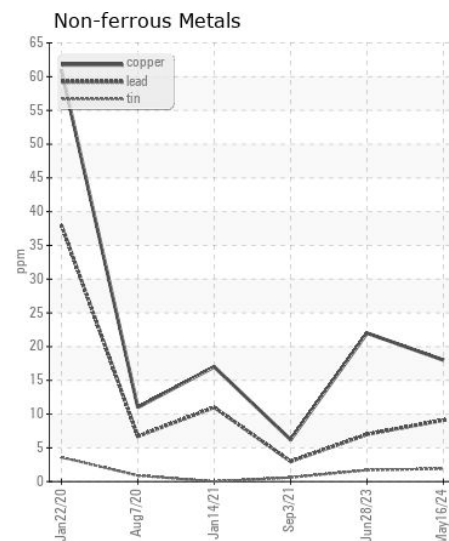
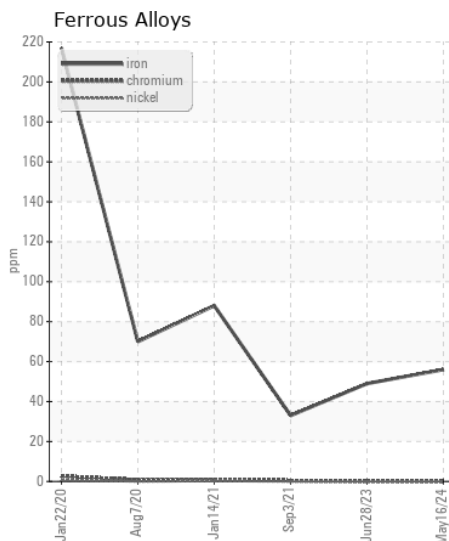
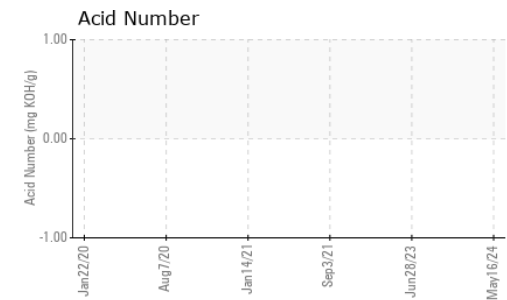
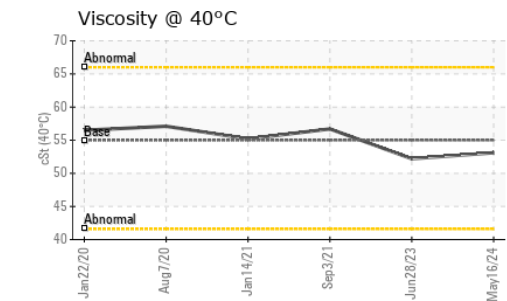
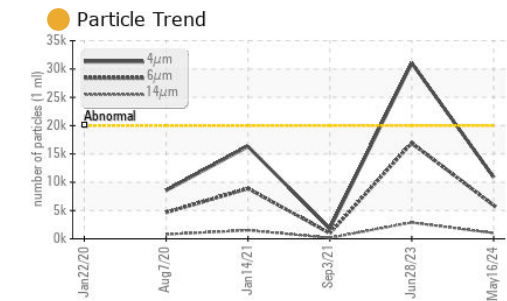
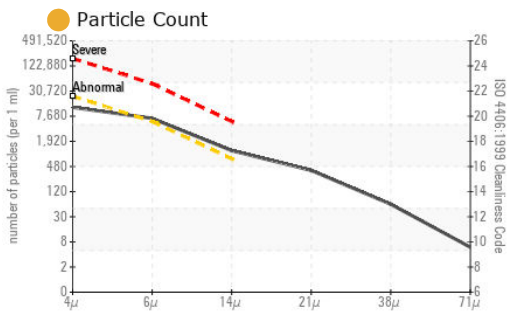
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>32</b>	14	16
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>10892</b>	● 31040	1781
Particles >6µm		ASTM D7647	>5000	● <b>5933</b>	▲ 16909	970
Particles >14µm		ASTM D7647	>640	● <b>1010</b>	▲ 2878	165
Particles >21µm		ASTM D7647	>160	● <b>340</b>	▲ 969	56
Particles >38µm		ASTM D7647	>40	● <b>53</b>	▲ 150	9
Particles >71µm		ASTM D7647	>10	● <b>5</b>	● 15	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● <b>21/20/17</b>	▲ 22/21/19	18/17/15
Silt	scalar	*Visual	NONE	<b>LIGHT</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

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	7	6
Boron	ppm	ASTM D5185m		<b>130</b>	113	140
Barium	ppm	ASTM D5185m		<b>0</b>	14	0
Molybdenum	ppm	ASTM D5185m		<b>26</b>	14	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>52</b>	69	19
Calcium	ppm	ASTM D5185m		<b>3524</b>	3202	3589
Phosphorus	ppm	ASTM D5185m		<b>1133</b>	1039	1159
Zinc	ppm	ASTM D5185m		<b>1412</b>	1347	1383
Sulfur	ppm	ASTM D5185m		<b>8802</b>	7915	6974
Visc @ 40°C	cSt	ASTM D445	55	<b>53.1</b>	52.2	56.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0939395 **Received** : 21 May 2024  
**Lab Number** : 06186002 **Tested** : 23 May 2024  
**Unique Number** : 11042754 **Diagnosed** : 23 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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