



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5107 5107
Component
Front Differential
Fluid
MOBIL MOBILFLUID 424 (1634 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885979	WC0862111	WC0819060
Sample Date		Client Info		05 Jan 2024	28 Sep 2023	13 Jun 2023
Machine Age	hrs	Client Info		11391	10790	10232
Oil Age	hrs	Client Info		1159	558	2392
Filter Age	hrs	Client Info		1159	558	0
Oil Changed		Client Info		Not Changd	Not Changd	Changd
Filter Changed		Client Info		Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	65	43	61
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	<1
Lead	ppm	ASTM D5185m	>25	30	32	47
Copper	ppm	ASTM D5185m	>100	17	16	24
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

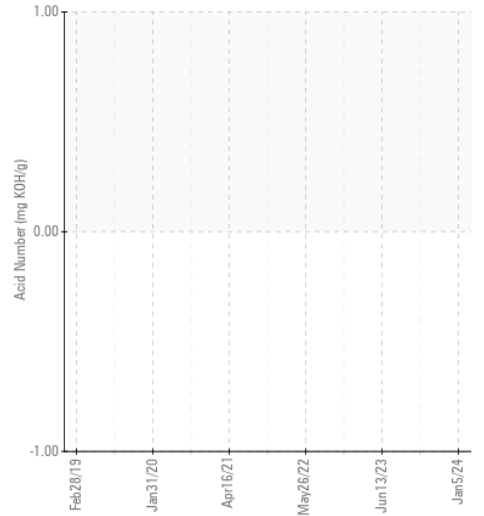
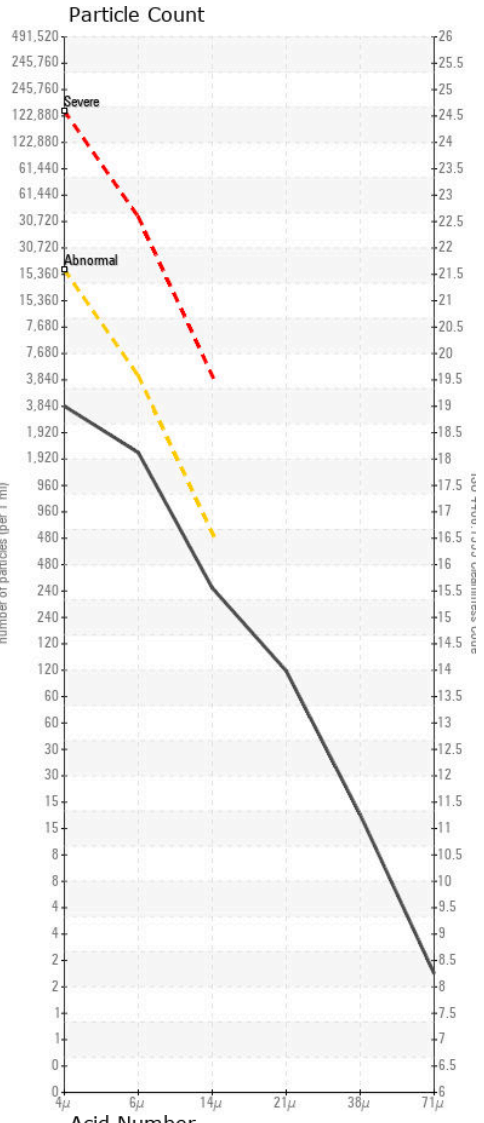
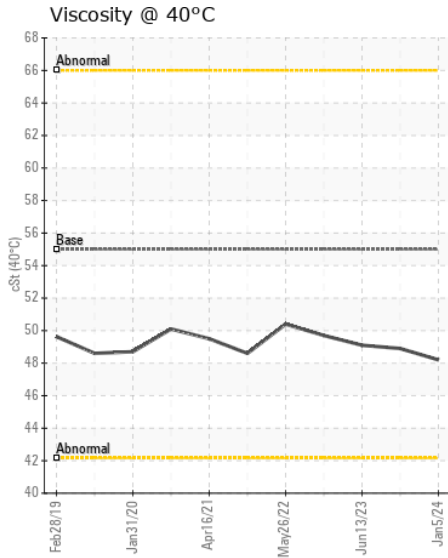
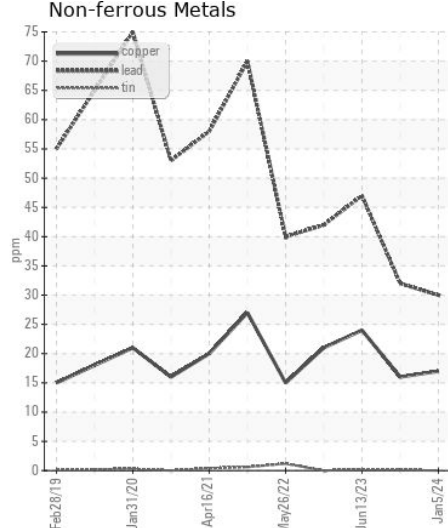
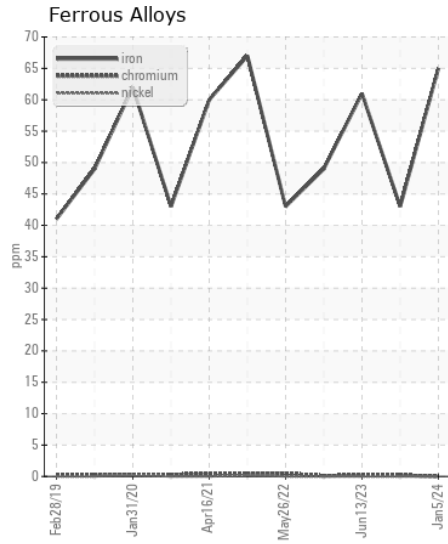
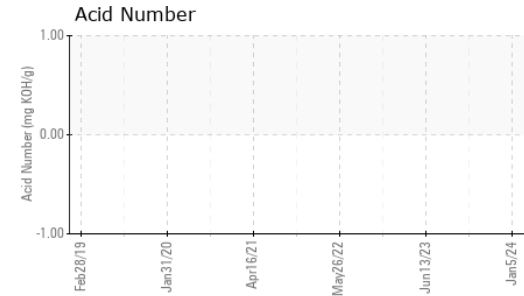
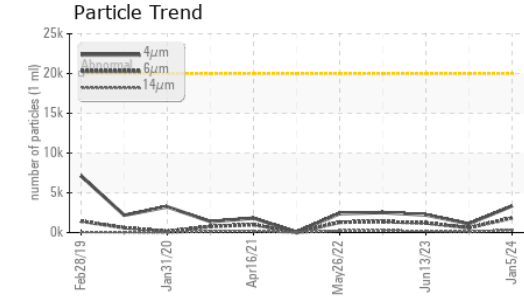
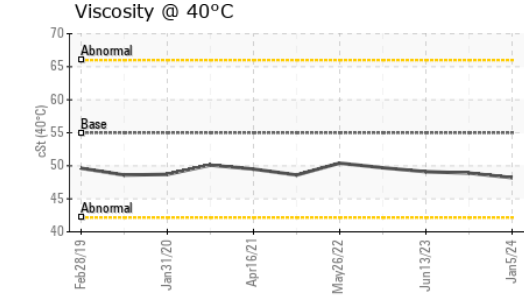
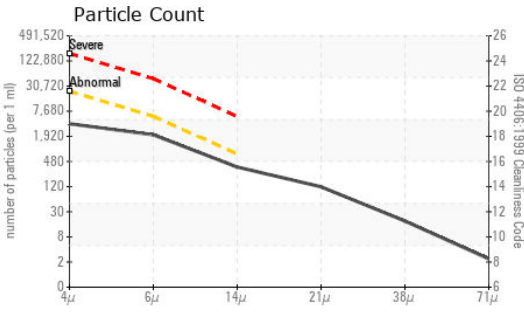
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	9	8	8
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	3358	1105	2218
Particles >6µm		ASTM D7647	>5000	1829	602	1209
Particles >14µm		ASTM D7647	>640	311	102	206
Particles >21µm		ASTM D7647	>160	105	35	69
Particles >38µm		ASTM D7647	>40	16	5	11
Particles >71µm		ASTM D7647	>10	2	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	17/16/14	18/17/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	2	7
Boron	ppm	ASTM D5185m		89	94	86
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		9	11	5
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		61	60	73
Calcium	ppm	ASTM D5185m		3231	3129	3431
Phosphorus	ppm	ASTM D5185m		1148	1065	1124
Zinc	ppm	ASTM D5185m		1211	1296	1320
Sulfur	ppm	ASTM D5185m		6021	6382	6689
Visc @ 40°C	cSt	ASTM D445	55	48.2	48.9	49.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885979 **Received** : 09 Jan 2024
Lab Number : 06055828 **Diagnosed** : 11 Jan 2024
Unique Number : 10821777 **Diagnostician** : 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)