



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5107 5107
Component
Rear Differential
Fluid
MOBIL MOBILFLUID 424 (18 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861606	WC0861867	WC0819062
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				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>500	34	26	37
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	6	2	<1
Lead	ppm	ASTM D5185m	>25	11	▲ 15	▲ 26
Copper	ppm	ASTM D5185m	>100	▲ 112	▲ 149	▲ 267
Tin	ppm	ASTM D5185m	>10	7	▲ 11	▲ 18
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

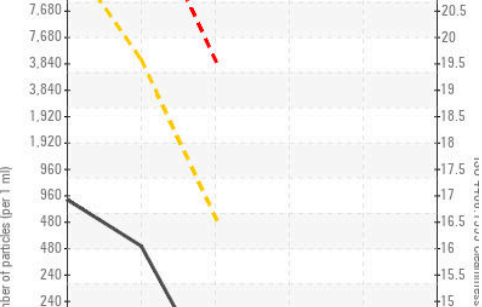
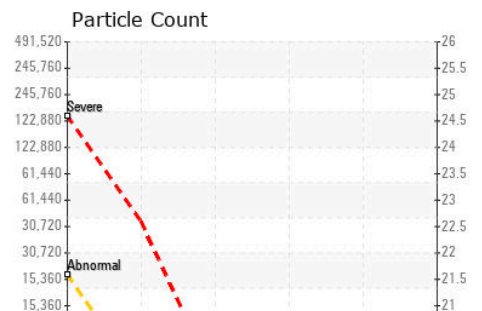
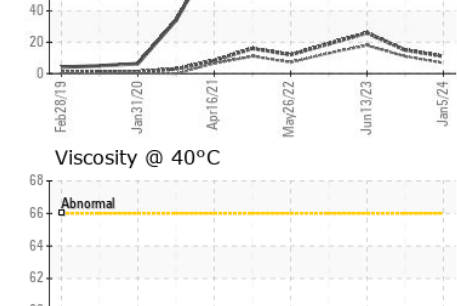
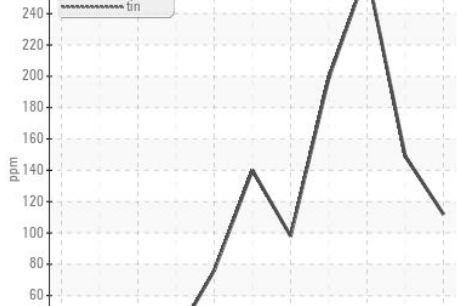
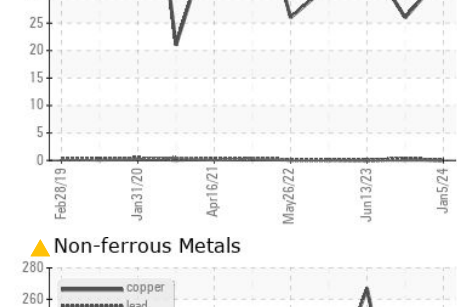
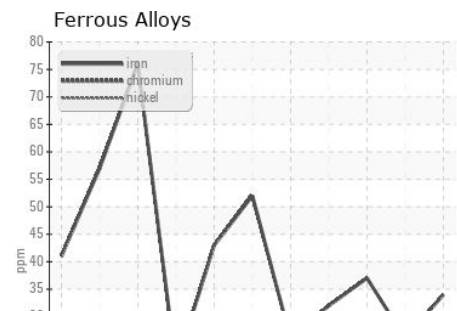
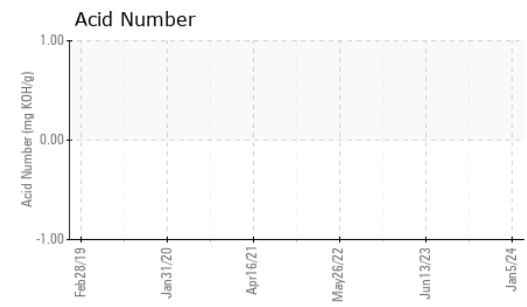
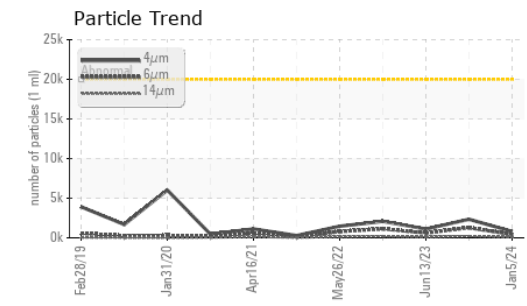
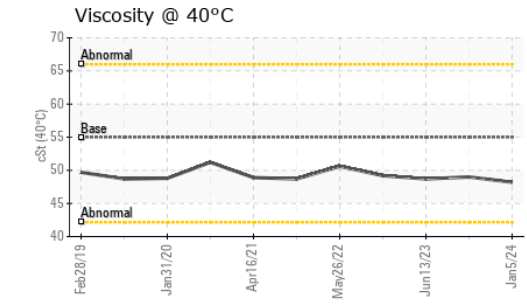
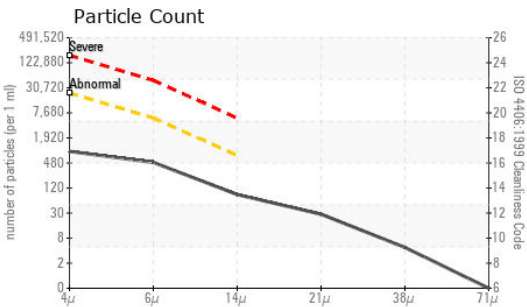
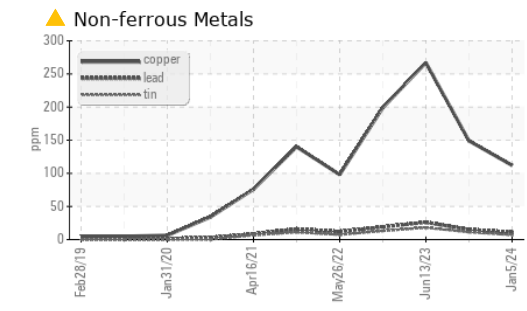
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	25	11	10
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	800	2340	1105
Particles >6µm		ASTM D7647	>5000	436	1275	602
Particles >14µm		ASTM D7647	>640	74	217	102
Particles >21µm		ASTM D7647	>160	25	73	35
Particles >38µm		ASTM D7647	>40	4	11	5
Particles >71µm		ASTM D7647	>10	0	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/16/13	18/17/15	17/16/14
Silt	scalar	*Visual	NONE	LIGHT	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		118	142	120
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		14	20	6
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		53	68	59
Calcium	ppm	ASTM D5185m		3348	3907	3583
Phosphorus	ppm	ASTM D5185m		1191	1319	1166
Zinc	ppm	ASTM D5185m		1297	1667	1367
Sulfur	ppm	ASTM D5185m		7198	9305	7373
Visc @ 40°C	cSt	ASTM D445	55	48.2	49.0	48.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861606 **Received** : 09 Jan 2024
Lab Number : 06055826 **Diagnosed** : 11 Jan 2024
Unique Number : 10821775 **Diagnostician** : Don Baldrige
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)