



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5009 5009
Component
Rear Differential
Fluid
MOBIL MOBILUBE XFD 60 (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919099	WC0744830	WC0716715
Sample Date		Client Info		12 Apr 2024	03 Oct 2022	25 Aug 2022
Machine Age	hrs	Client Info		14974	11484	11298
Oil Age	hrs	Client Info		3700	210	4088
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	34	17	37
Chromium	ppm	ASTM D5185m	>3	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	3	0	1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	<1	2	2
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>103	2	<1	3
Tin	ppm	ASTM D5185m	>5	1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

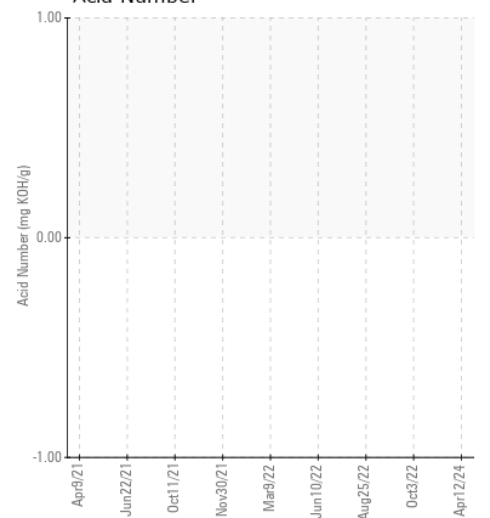
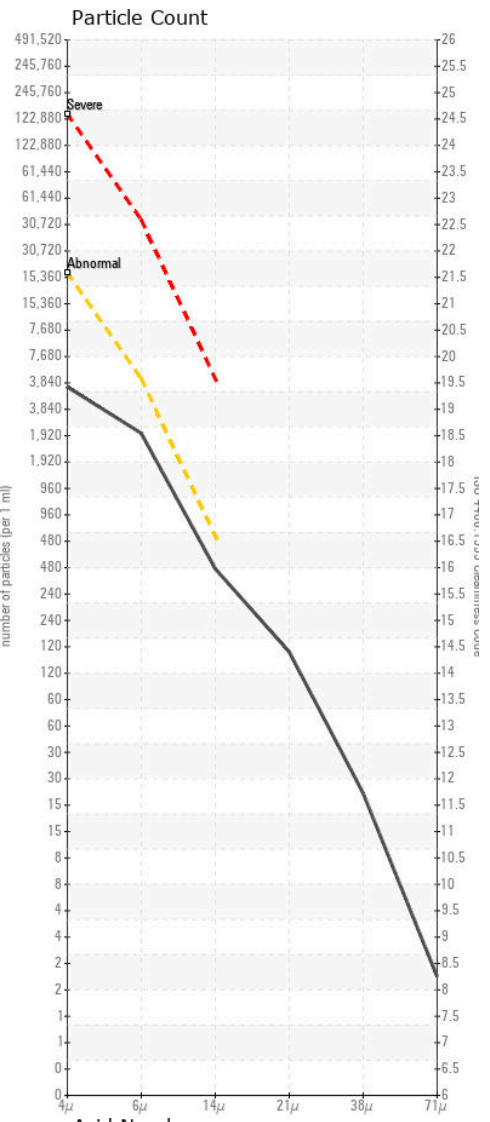
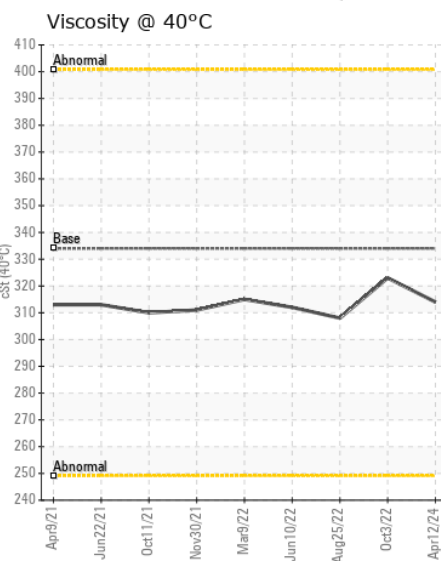
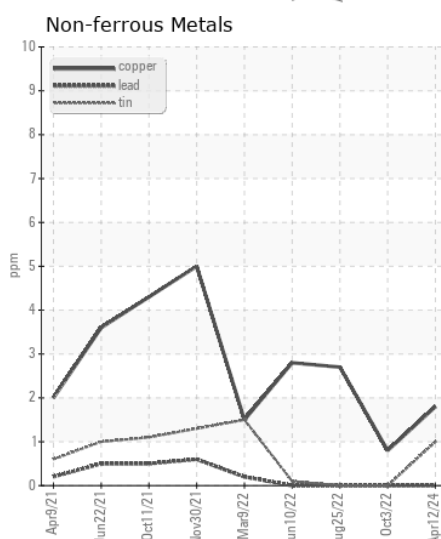
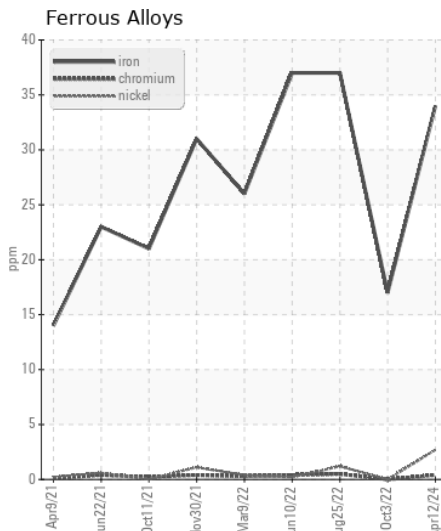
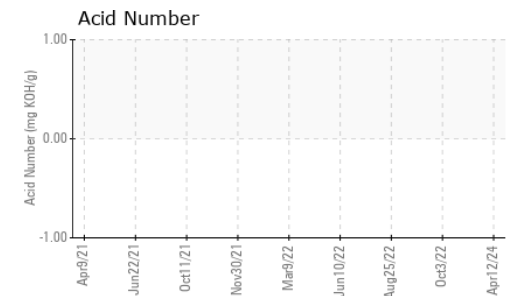
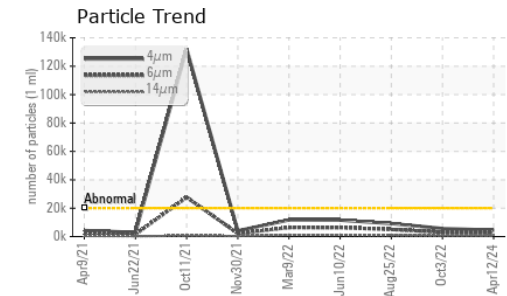
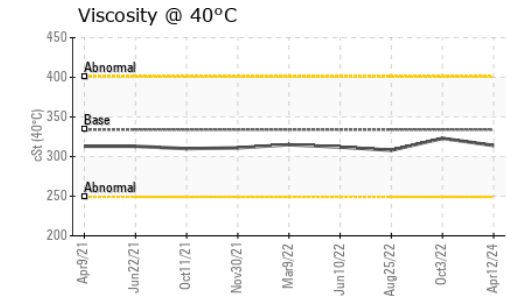
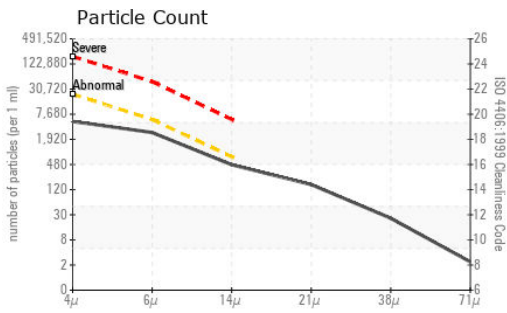
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>100	9	10	17
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	4489	5668	9182
Particles >6µm		ASTM D7647	>5000	2445	3088	5002
Particles >14µm		ASTM D7647	>640	416	525	851
Particles >21µm		ASTM D7647	>160	140	177	287
Particles >38µm		ASTM D7647	>40	22	27	44
Particles >71µm		ASTM D7647	>10	2	3	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/16	20/19/16	20/20/17
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	4
Boron	ppm	ASTM D5185m		101	100	112
Barium	ppm	ASTM D5185m		<1	0	1
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		8	6	13
Calcium	ppm	ASTM D5185m		371	310	321
Phosphorus	ppm	ASTM D5185m		324	309	334
Zinc	ppm	ASTM D5185m		41	12	44
Sulfur	ppm	ASTM D5185m		13859	13548	11545
Visc @ 40°C	cSt	ASTM D445	334	314	323	308



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919099 **Received** : 16 Apr 2024
Lab Number : 06150195 **Tested** : 18 Apr 2024
Unique Number : 10980273 **Diagnosed** : 18 Apr 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)