



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5000 5000
Component
Differential
Fluid
MOBIL MOBILUBE XFD 60 (30 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		WC0918681	WC0885964	WC0862122
Sample Date		Client Info		18 Apr 2024	24 Jan 2024	25 Sep 2023
Machine Age	hrs	Client Info		22497	21922	21338
Oil Age	hrs	Client Info		3640	3065	2481
Filter Age	hrs	Client Info		3640	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	70	39	44
Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	1	<1	0
Titanium	ppm	ASTM D5185m	>2	1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>30	3	2	1
Lead	ppm	ASTM D5185m	>13	2	<1	<1
Copper	ppm	ASTM D5185m	>103	6	4	7
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

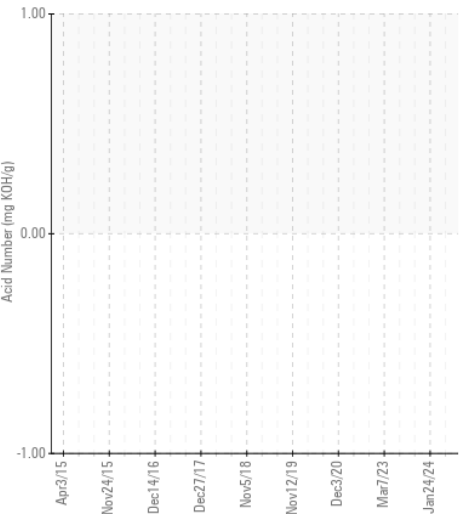
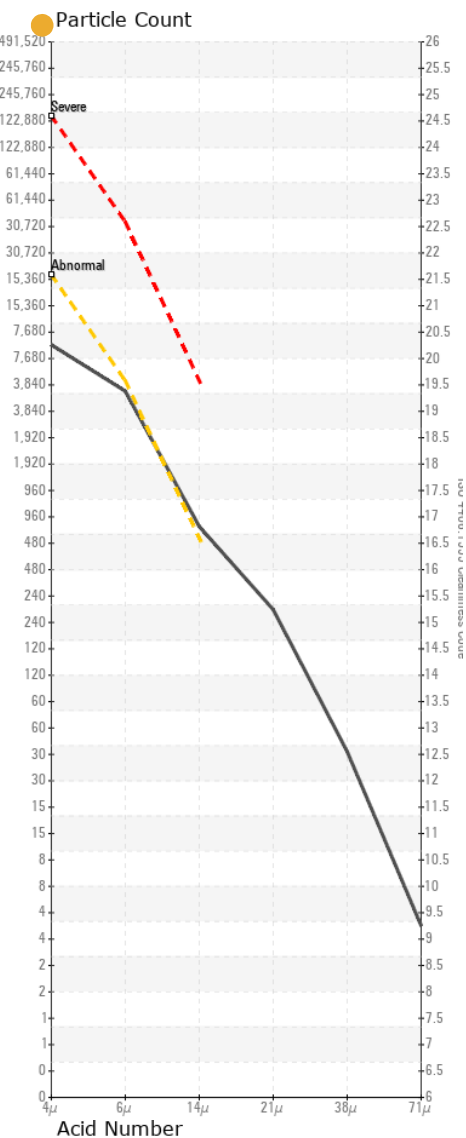
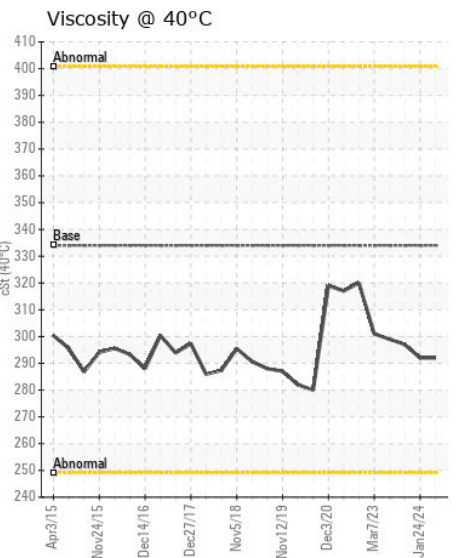
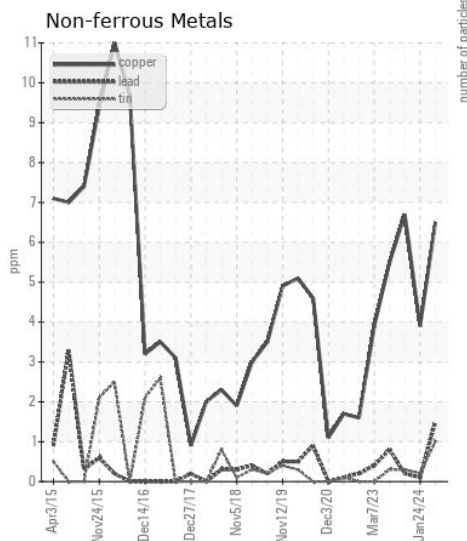
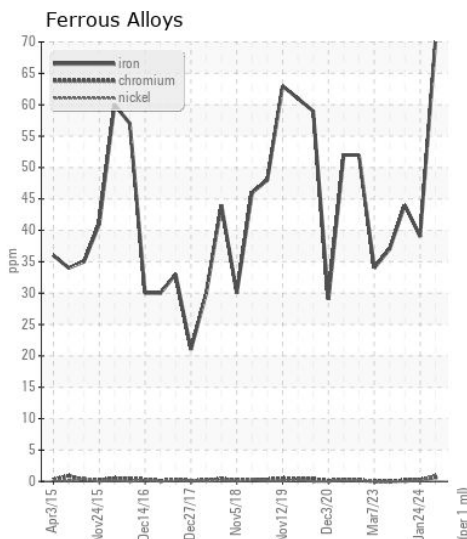
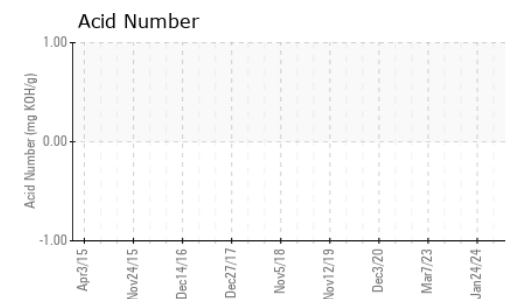
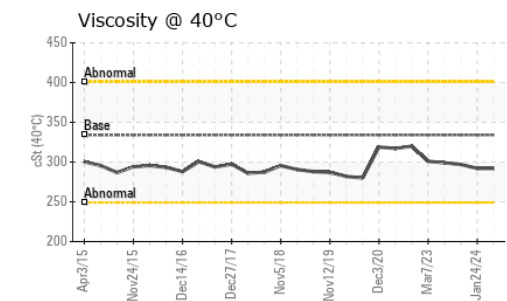
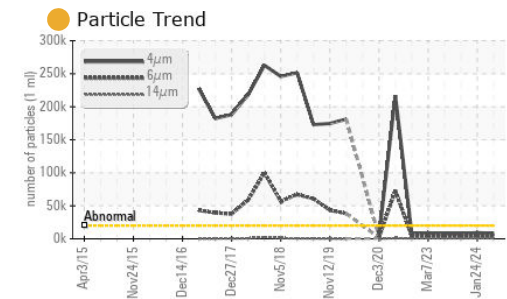
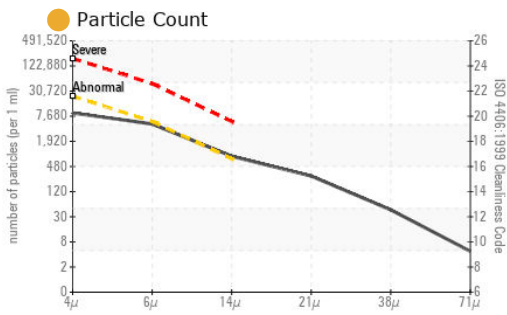
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>100	29	18	20
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	8004	9335	7699
Particles >6µm		ASTM D7647	>5000	4360	5085	4194
Particles >14µm		ASTM D7647	>640	742	865	714
Particles >21µm		ASTM D7647	>160	250	292	240
Particles >38µm		ASTM D7647	>40	39	45	37
Particles >71µm		ASTM D7647	>10	4	5	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/17	20/20/17	20/19/17
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		11	11	19
Boron	ppm	ASTM D5185m		96	80	112
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m		10	7	7
Calcium	ppm	ASTM D5185m		777	624	483
Phosphorus	ppm	ASTM D5185m		407	329	347
Zinc	ppm	ASTM D5185m		171	136	70
Sulfur	ppm	ASTM D5185m		12728	11818	12987
Visc @ 40°C	cSt	ASTM D445	334	292	292	297



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918681 **Received** : 22 Apr 2024
Lab Number : 06156835 **Tested** : 24 Apr 2024
Unique Number : 10992258 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
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)