



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5221 5221
Component
Transmission (Manual)
Fluid
MOBIL MOBILFLUID 424 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956020	WC0937778	WC0861773
Sample Date		Client Info		16 Jul 2024	01 May 2024	22 Jan 2024
Machine Age	hrs	Client Info		10064	9523	8902
Oil Age	hrs	Client Info		491	2347	1726
Filter Age	hrs	Client Info		491	2347	1726
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	35	76	81
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>7	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	1	2
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>225	6	10	12
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

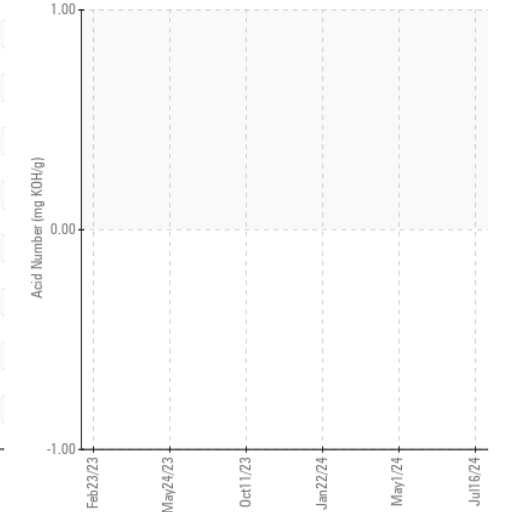
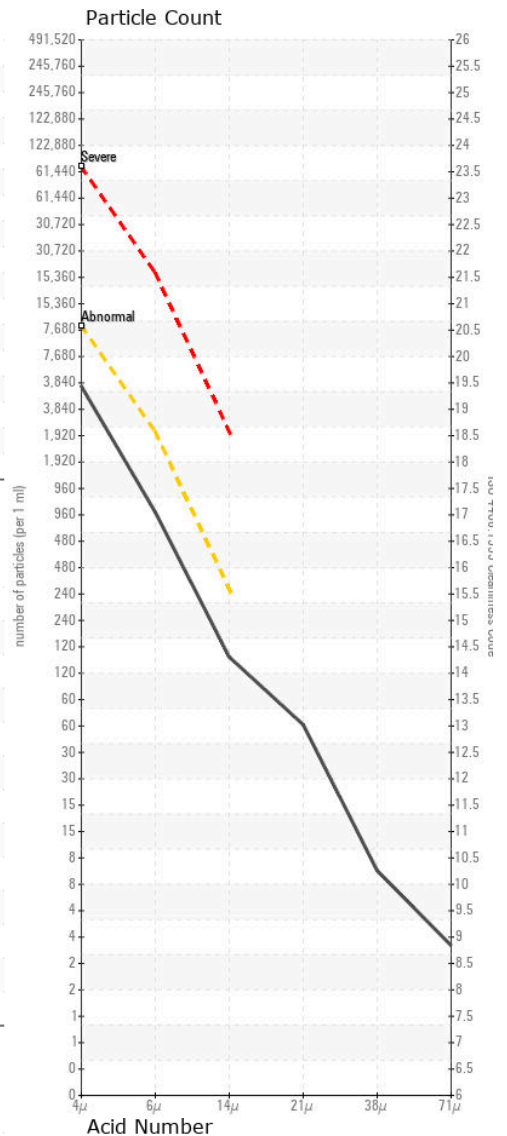
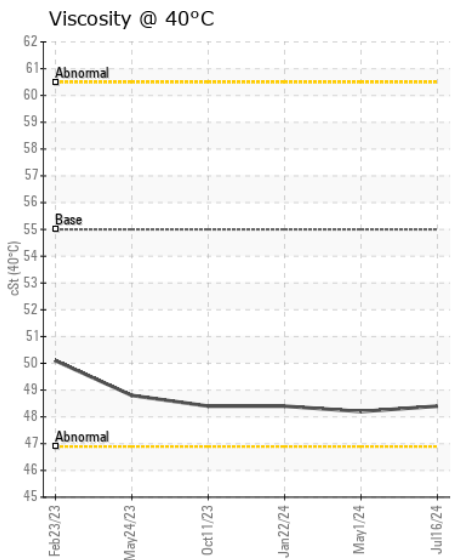
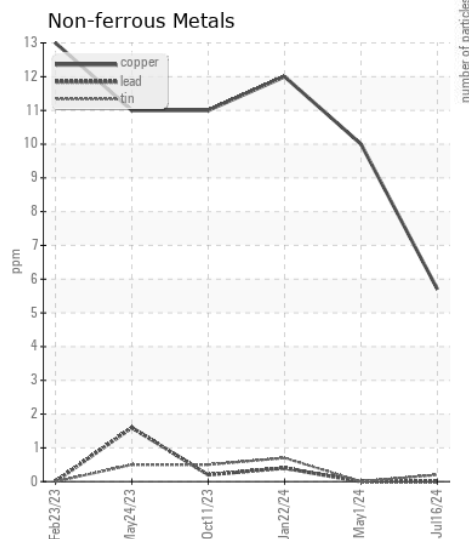
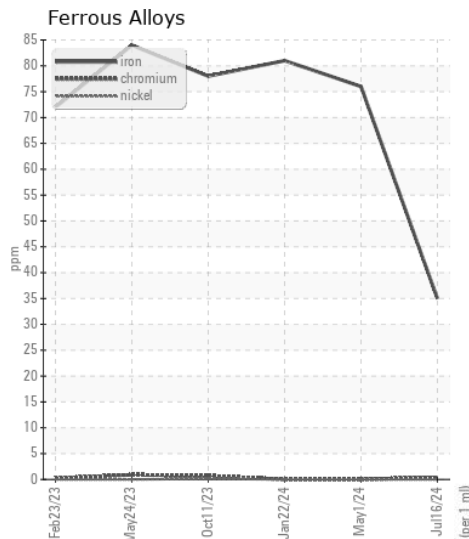
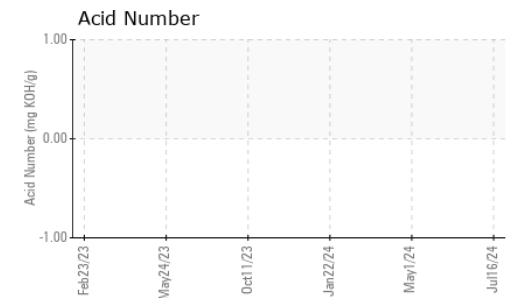
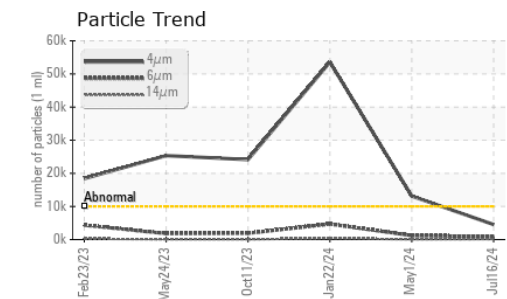
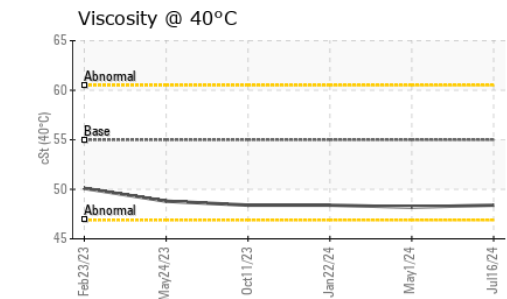
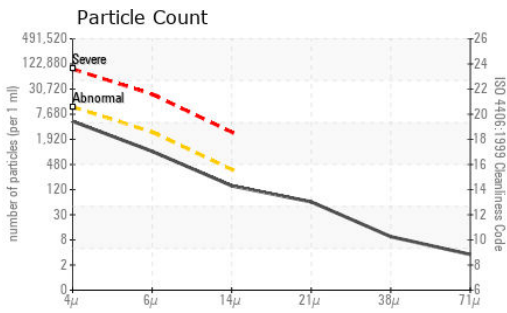
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	8	9	11
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	4534	● 13130	▲ 53562
Particles >6µm		ASTM D7647	>2500	871	1231	▲ 4700
Particles >14µm		ASTM D7647	>320	131	55	▲ 340
Particles >21µm		ASTM D7647	>80	54	18	▲ 129
Particles >38µm		ASTM D7647	>20	8	2	10
Particles >71µm		ASTM D7647	>4	3	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/14	● 21/17/13	▲ 23/19/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	4	4
Boron	ppm	ASTM D5185m		122	92	86
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		11	8	9
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		56	56	64
Calcium	ppm	ASTM D5185m		3239	2750	2951
Phosphorus	ppm	ASTM D5185m		1074	983	1088
Zinc	ppm	ASTM D5185m		1302	1087	1218
Sulfur	ppm	ASTM D5185m		8383	6518	5666
Visc @ 40°C	cSt	ASTM D445	55	48.4	48.2	48.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956020 **Received** : 18 Jul 2024
Lab Number : 06240177 **Tested** : 19 Jul 2024
Unique Number : 11129011 **Diagnosed** : 19 Jul 2024 - Don Baldridge
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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