



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5215 5215
Component
Rear Differential
Fluid
MOBIL MOBILTRANS HD 50 (15 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956058	WC0919027	WC0861916
Sample Date		Client Info		09 Jul 2024	09 Apr 2024	29 Dec 2023
Machine Age	hrs	Client Info		12932	12329	11759
Oil Age	hrs	Client Info		552	1119	1698
Filter Age	hrs	Client Info		552	1119	1698
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	22	41	394
Chromium	ppm	ASTM D5185m	>3	0	1	<1
Nickel	ppm	ASTM D5185m	>3	0	1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	<1	3	2
Lead	ppm	ASTM D5185m	>13	0	1	0
Copper	ppm	ASTM D5185m	>103	0	7	48
Tin	ppm	ASTM D5185m	>5	0	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

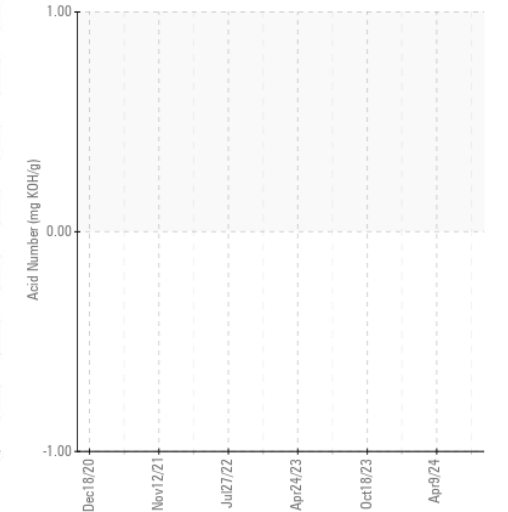
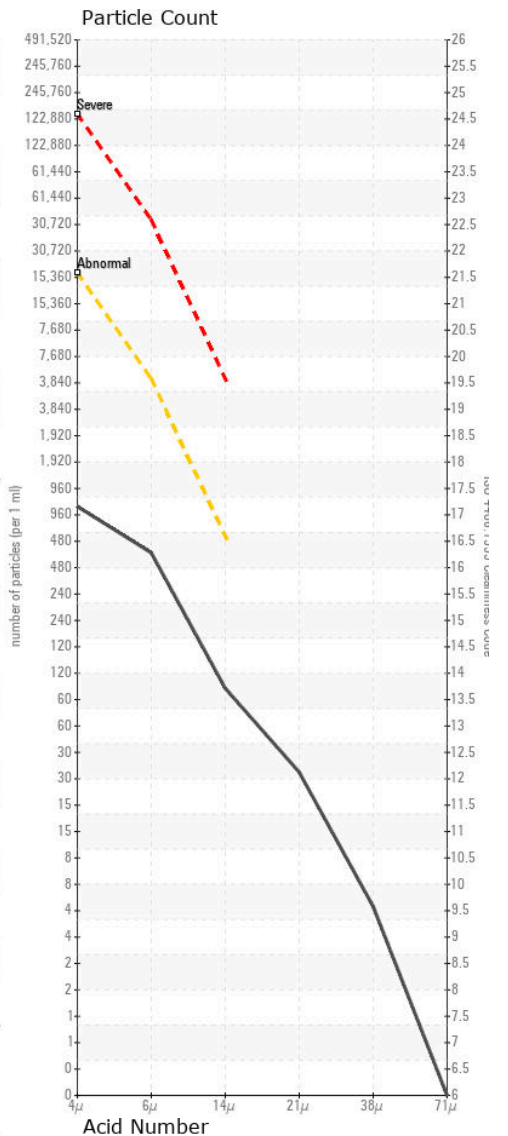
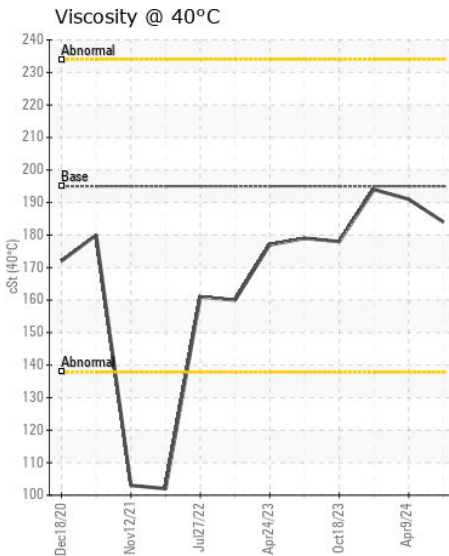
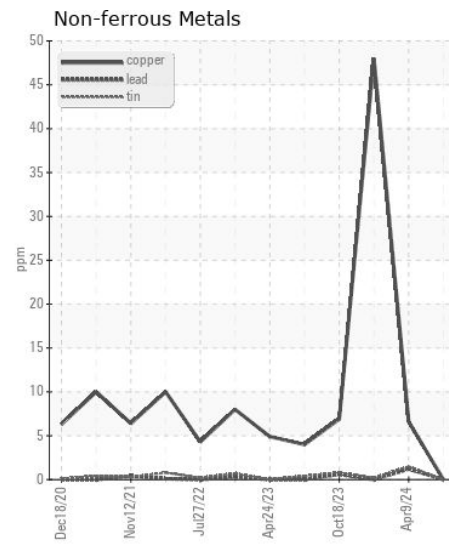
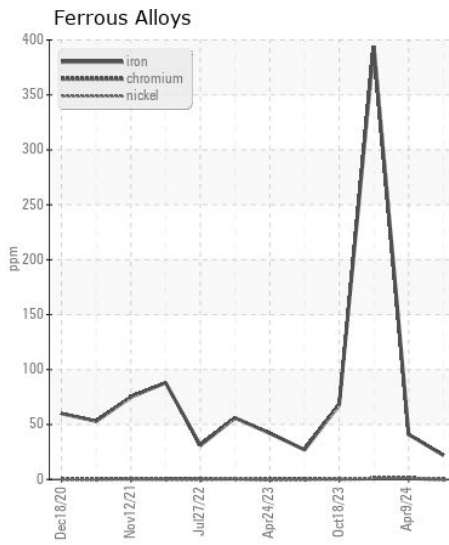
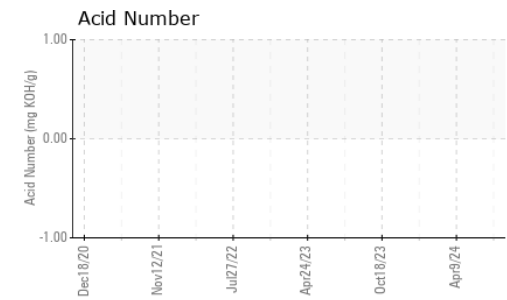
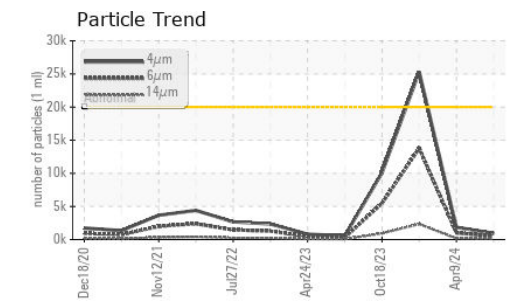
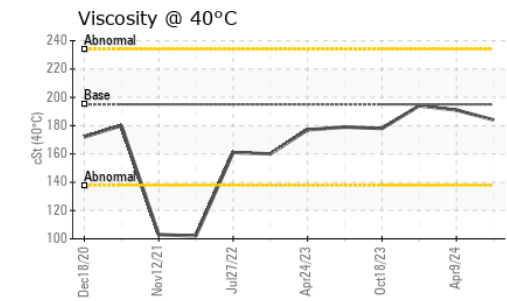
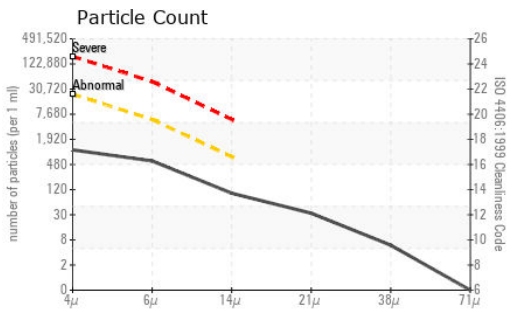
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>100	12	16	13
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	940	1853	▲ 25316
Particles >6µm		ASTM D7647	>5000	512	1009	▲ 13791
Particles >14µm		ASTM D7647	>640	87	172	▲ 2347
Particles >21µm		ASTM D7647	>160	29	58	▲ 791
Particles >38µm		ASTM D7647	>40	5	9	▲ 122
Particles >71µm		ASTM D7647	>10	0	1	▲ 12
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/16/14	18/17/15	▲ 22/21/18
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		<1	<1	0
Boron	ppm	ASTM D5185m		2	2	1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	4	2
Manganese	ppm	ASTM D5185m		0	1	3
Magnesium	ppm	ASTM D5185m		27	24	18
Calcium	ppm	ASTM D5185m		3710	4984	3335
Phosphorus	ppm	ASTM D5185m		1052	1424	850
Zinc	ppm	ASTM D5185m		1277	1535	1122
Sulfur	ppm	ASTM D5185m		15703	18985	11729
Visc @ 40°C	cSt	ASTM D445	195	184	191	194



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956058 **Received** : 11 Jul 2024
Lab Number : 06233148 **Tested** : 12 Jul 2024
Unique Number : 11116641 **Diagnosed** : 12 Jul 2024 - Don Baldridge
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)