



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6453 6453
 Component
Rear Differential
 Fluid
MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (5 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937755	WC0819154	WC0579756
Sample Date		Client Info		27 Jun 2024	21 Jun 2023	09 Sep 2021
Machine Age	hrs	Client Info		7740	6100	2172
Oil Age	hrs	Client Info		3932	2292	1069
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	▲ 592	293	73
Chromium	ppm	ASTM D5185m	>10	5	3	<1
Nickel	ppm	ASTM D5185m	>10	2	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	14	10	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	2	2
Tin	ppm	ASTM D5185m	>10	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	MODER	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

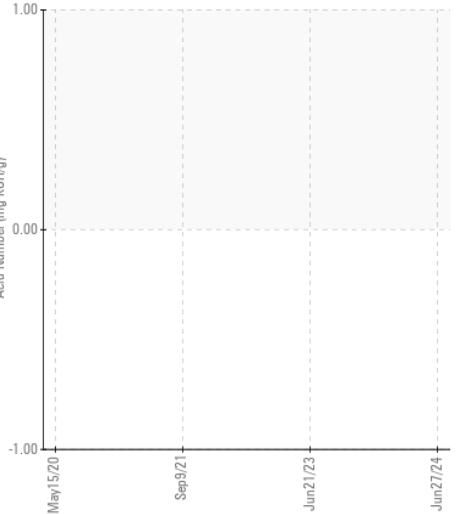
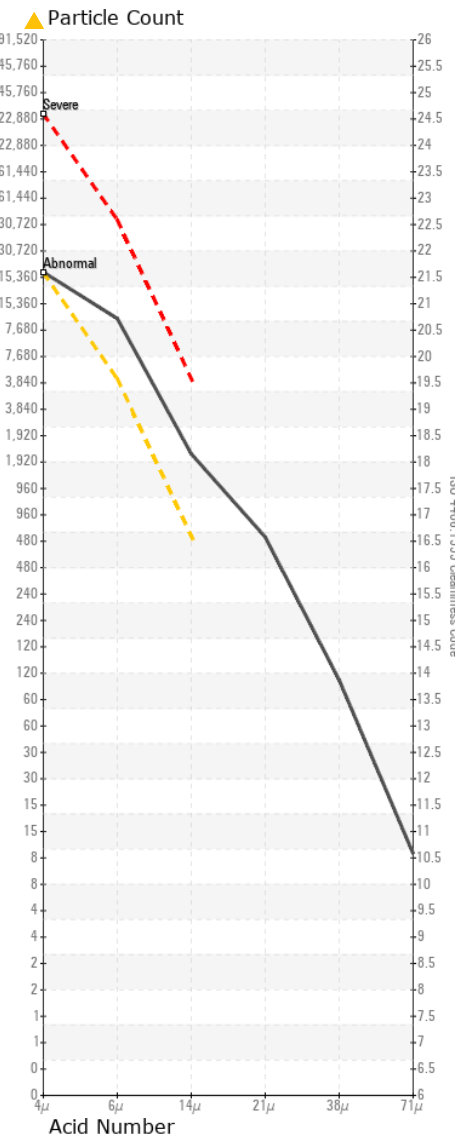
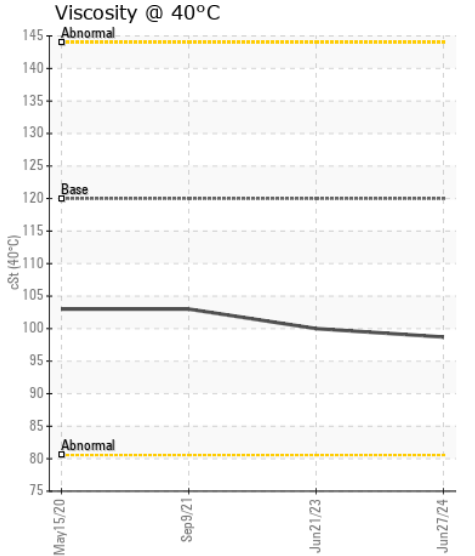
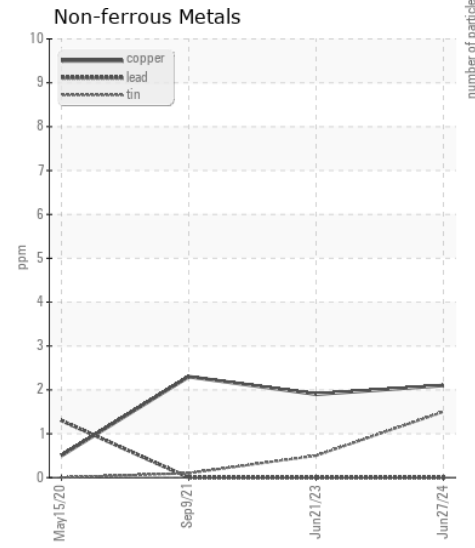
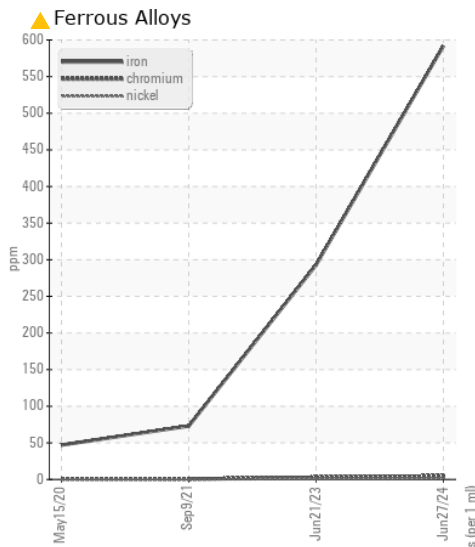
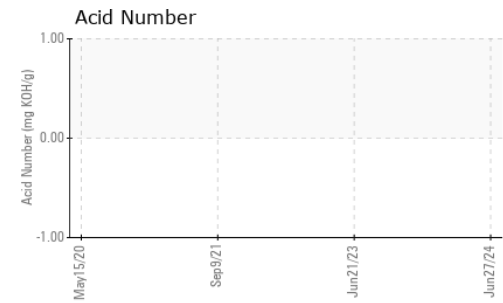
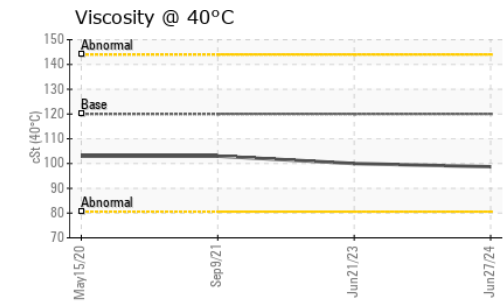
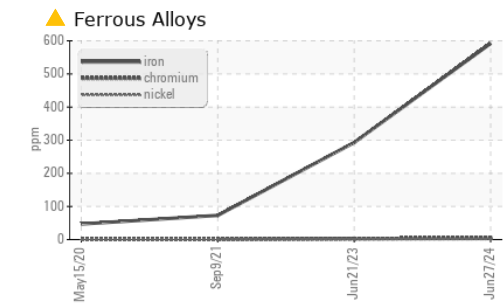
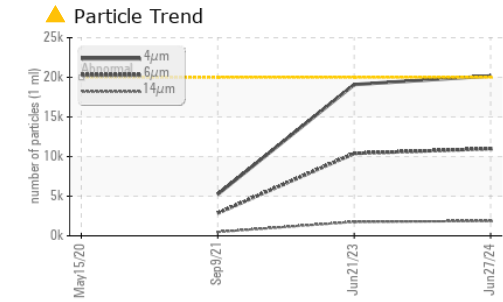
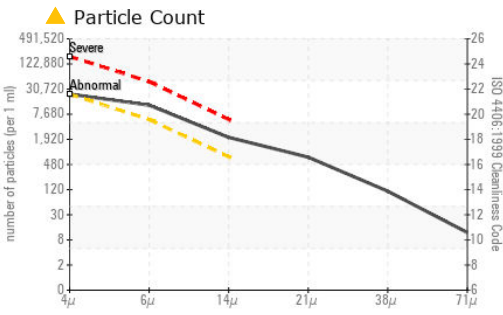
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	48	38	23
Potassium	ppm	ASTM D5185m	>20	4	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 20175	19087	5244
Particles >6µm		ASTM D7647	>5000	▲ 10990	▲ 10398	2857
Particles >14µm		ASTM D7647	>640	▲ 1870	▲ 1770	486
Particles >21µm		ASTM D7647	>160	▲ 630	▲ 596	164
Particles >38µm		ASTM D7647	>40	▲ 97	▲ 92	25
Particles >71µm		ASTM D7647	>10	10	9	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	▲ 21/21/18	20/19/16
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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		10	9	7
Boron	ppm	ASTM D5185m		158	205	311
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		22	17	11
Magnesium	ppm	ASTM D5185m		8	0	<1
Calcium	ppm	ASTM D5185m		68	12	8
Phosphorus	ppm	ASTM D5185m		1545	1462	1347
Zinc	ppm	ASTM D5185m		53	0	6
Sulfur	ppm	ASTM D5185m		31933	32345	21594
Visc @ 40°C	cSt	ASTM D445	120	98.7	100	103



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937755 **Received** : 01 Jul 2024
Lab Number : 06224975 **Tested** : 03 Jul 2024
Unique Number : 11103172 **Diagnosed** : 03 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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