



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6453 6453

Component

Front 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		WC0937756	WC0819153	WC0579757
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	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	142	109	85
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	2	<1
Aluminum	ppm	ASTM D5185m	>25	2	1	0
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	43	47	49
Tin	ppm	ASTM D5185m	>10	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

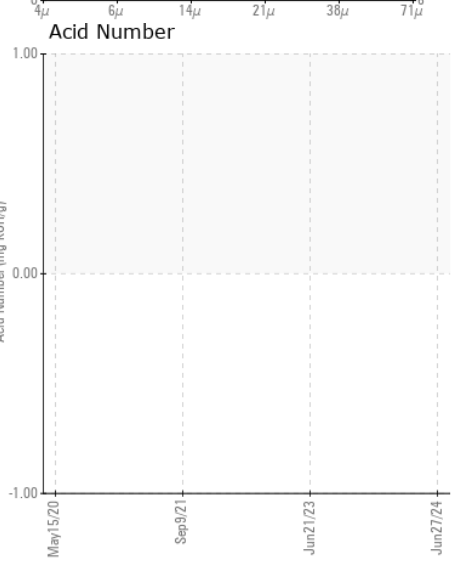
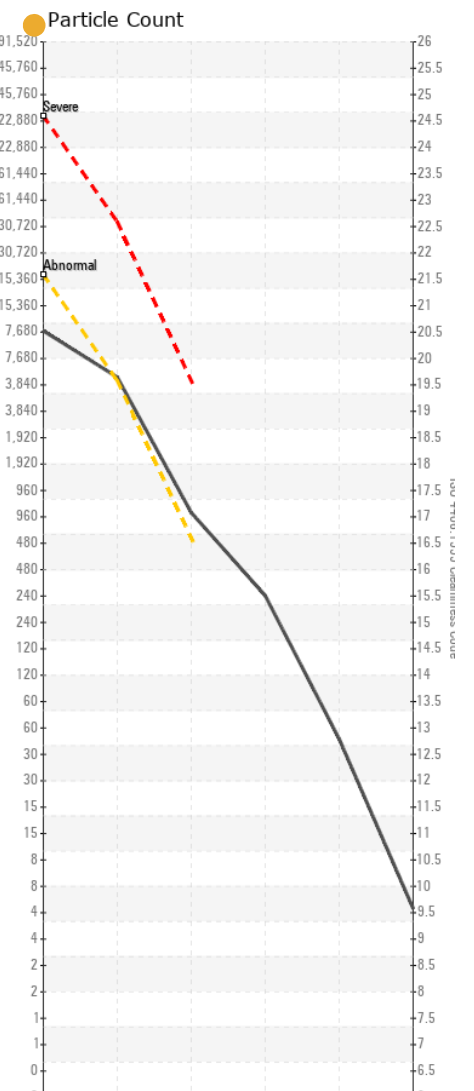
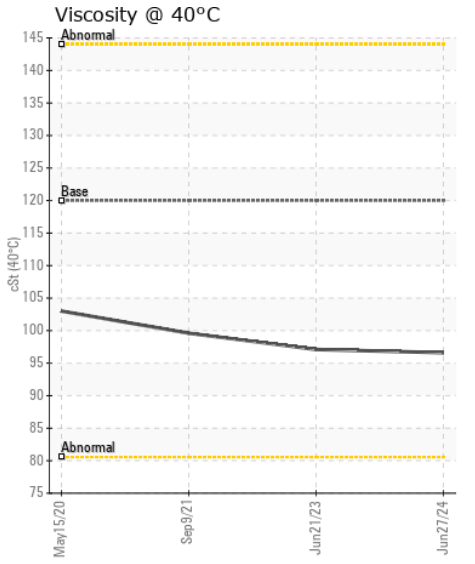
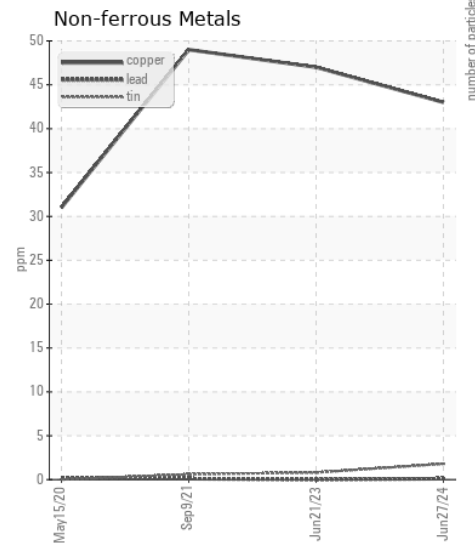
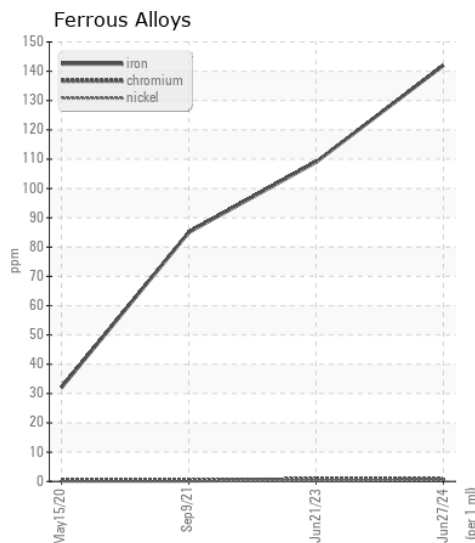
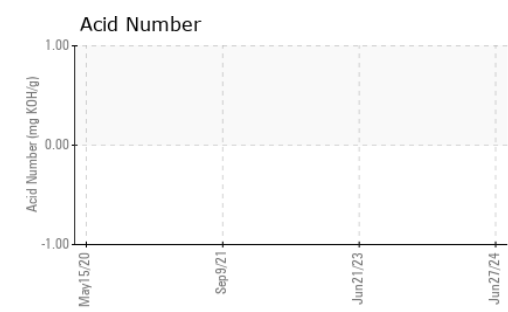
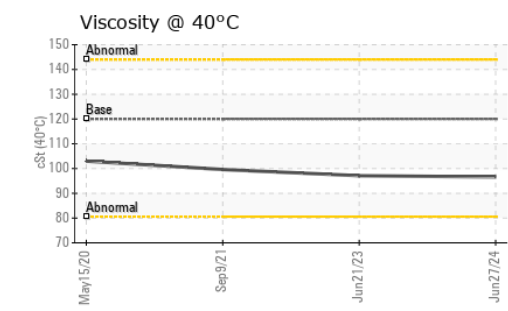
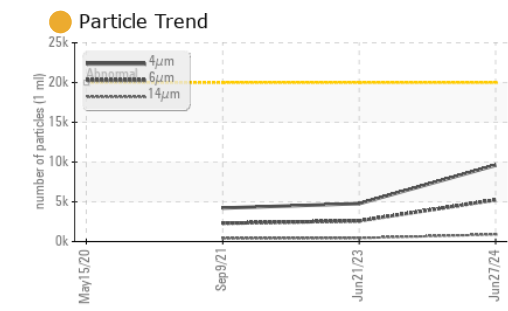
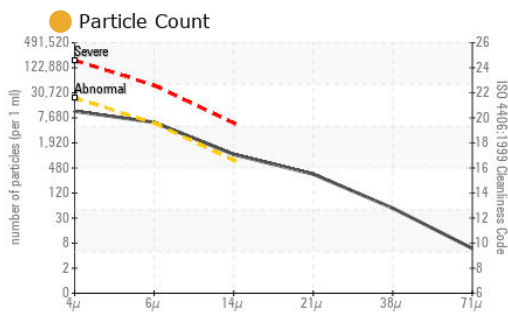
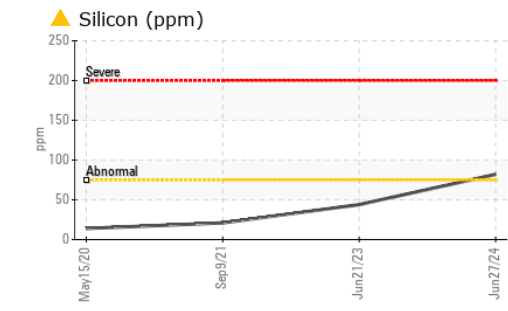
There is a moderate amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>75	▲ 82	44	21
Potassium	ppm	ASTM D5185m	>20	5	3	3
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	9604	4776	4219
Particles >6µm		ASTM D7647	>5000	● 5232	2602	2299
Particles >14µm		ASTM D7647	>640	● 890	443	391
Particles >21µm		ASTM D7647	>160	● 300	149	132
Particles >38µm		ASTM D7647	>40	● 46	23	20
Particles >71µm		ASTM D7647	>10	5	2	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/20/17	19/19/16	19/18/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ HEAVY	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		8	8	6
Boron	ppm	ASTM D5185m		203	222	295
Barium	ppm	ASTM D5185m		<1	0	3
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		21	18	17
Magnesium	ppm	ASTM D5185m		5	0	2
Calcium	ppm	ASTM D5185m		23	4	8
Phosphorus	ppm	ASTM D5185m		1548	1405	1337
Zinc	ppm	ASTM D5185m		23	0	8
Sulfur	ppm	ASTM D5185m		30770	30717	21052
Visc @ 40°C	cSt	ASTM D445	120	96.6	97.1	99.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937756 **Received** : 01 Jul 2024
Lab Number : 06224976 **Tested** : 03 Jul 2024
Unique Number : 11103173 **Diagnosed** : 03 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PrtCount)

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Certificate L2367
 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)