



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6438 6438

Component

Front Differential

Fluid

MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947768	WC0819151	WC0716533
Sample Date		Client Info		11 Jun 2024	21 Jun 2023	12 Jul 2022
Machine Age	hrs	Client Info		10615	8508	6640
Oil Age	hrs	Client Info		2107	4345	2477
Filter Age	hrs	Client Info		2107	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	33	52	39
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	2	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	17	49	30
Tin	ppm	ASTM D5185m	>10	0	0	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

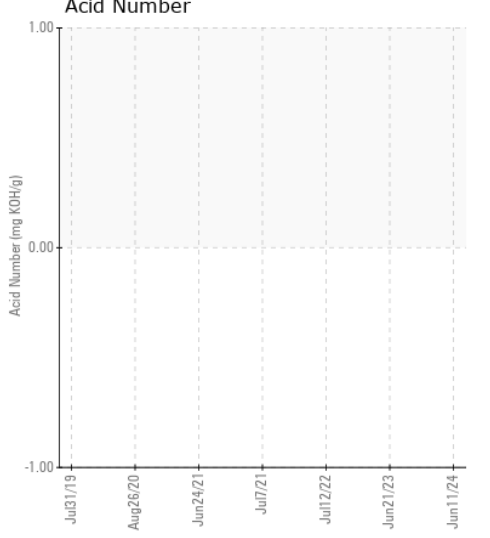
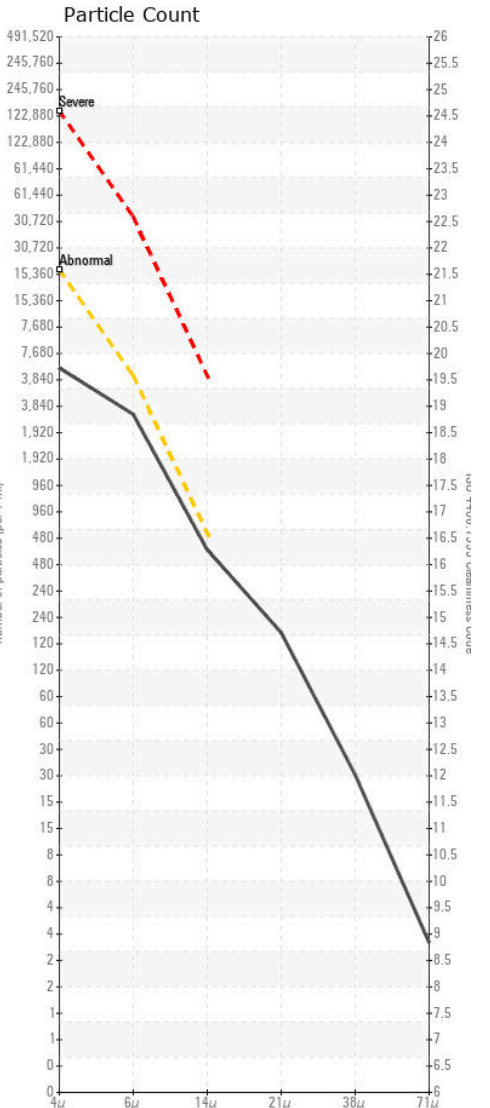
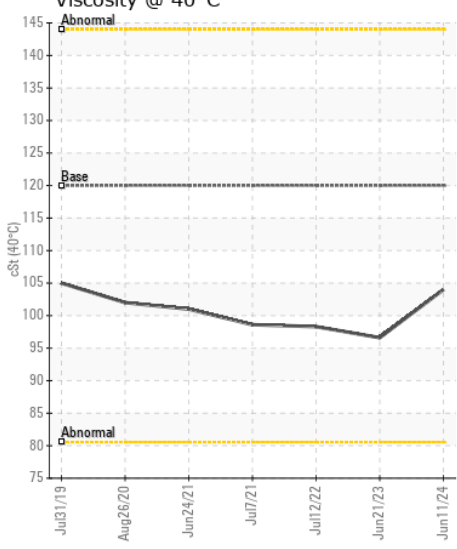
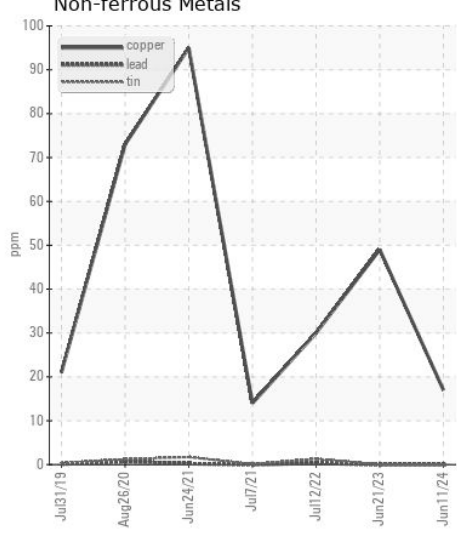
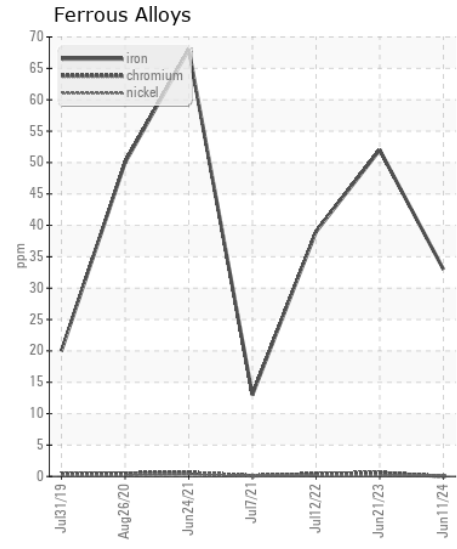
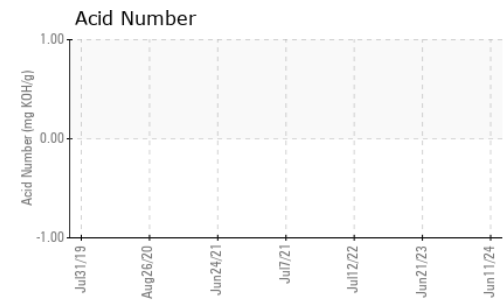
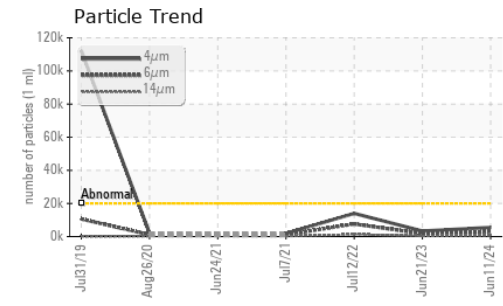
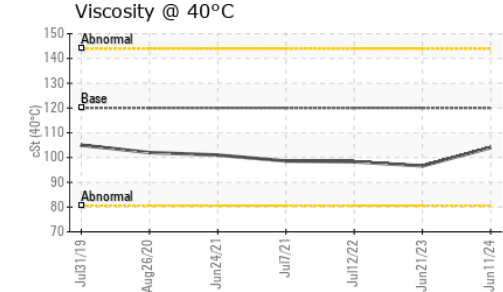
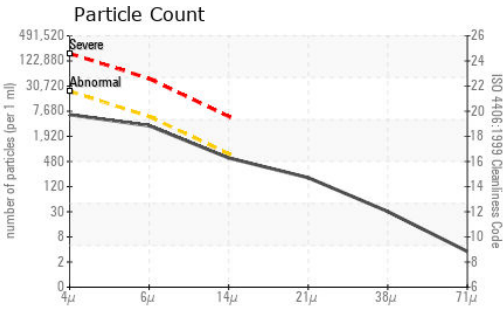
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	8	9	7
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	5533	3332	13983
Particles >6µm		ASTM D7647	>5000	3014	1815	7617
Particles >14µm		ASTM D7647	>640	513	309	1296
Particles >21µm		ASTM D7647	>160	173	104	437
Particles >38µm		ASTM D7647	>40	27	16	67
Particles >71µm		ASTM D7647	>10	3	2	7
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	19/18/15	21/20/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	HEAVY	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	4
Boron	ppm	ASTM D5185m		264	253	292
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		3	7	5
Magnesium	ppm	ASTM D5185m		7	20	25
Calcium	ppm	ASTM D5185m		55	41	51
Phosphorus	ppm	ASTM D5185m		1076	1320	1222
Zinc	ppm	ASTM D5185m		36	25	69
Sulfur	ppm	ASTM D5185m		23891	29163	25056
Visc @ 40°C	cSt	ASTM D445	120	104	96.6	98.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947768 **Received** : 14 Jun 2024
Lab Number : 06209944 **Tested** : 20 Jun 2024
Unique Number : 11082808 **Diagnosed** : 20 Jun 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)