



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6444 6444
 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		WC0919048	WC0819057	WC0613124
Sample Date		Client Info		15 Apr 2024	09 Jun 2023	15 Aug 2021
Machine Age	hrs	Client Info		8262	6440	2319
Oil Age	hrs	Client Info		3995	2173	2319
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	110	80	120
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	6	4
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	1	<1	1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

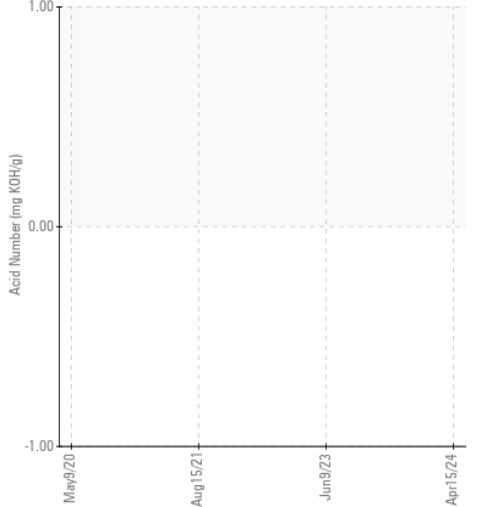
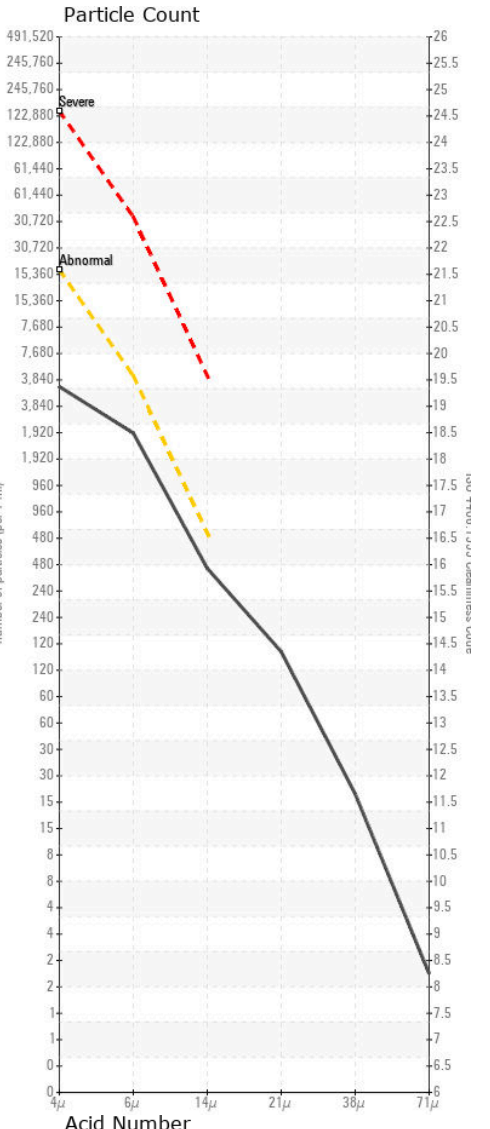
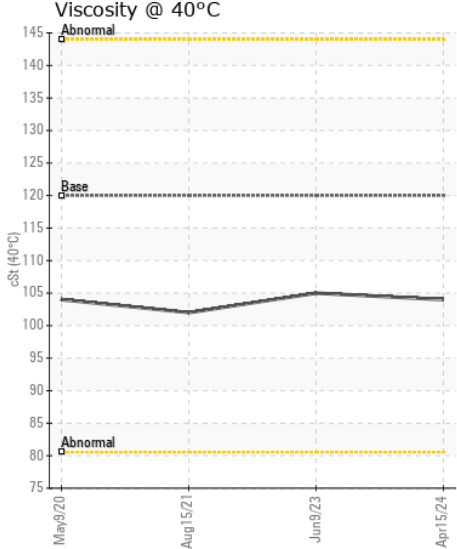
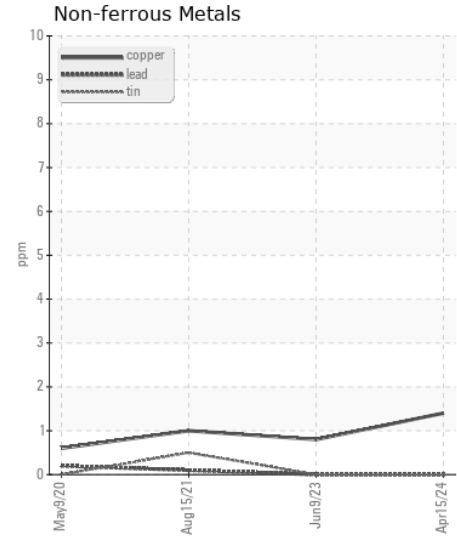
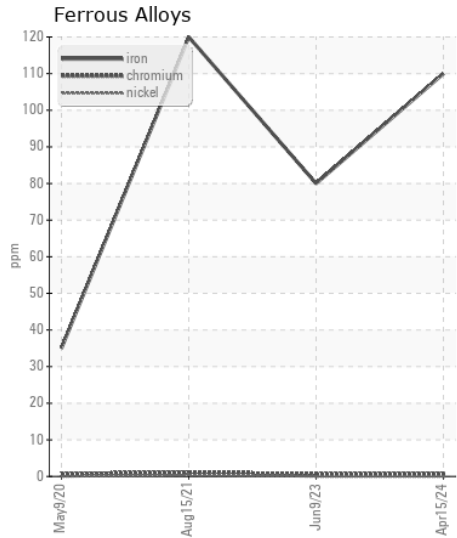
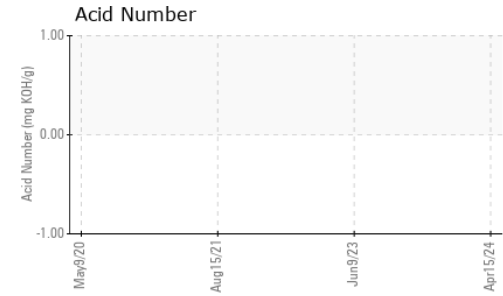
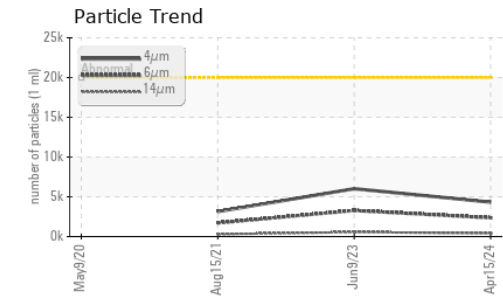
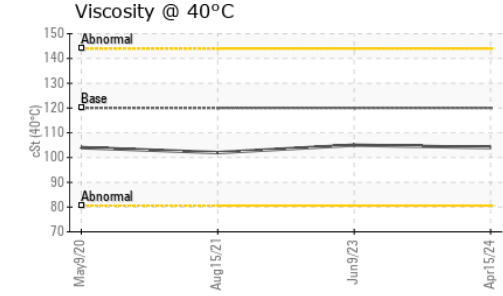
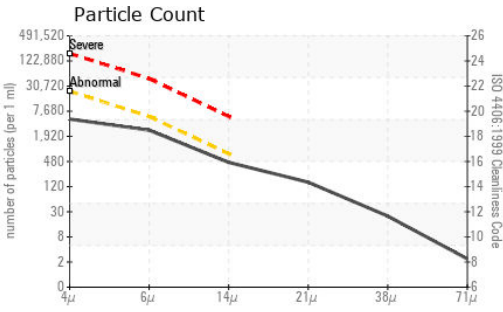
Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	9	9	23
Potassium	ppm	ASTM D5185m	>20	11	2	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	4332	6020	3143
Particles >6µm		ASTM D7647	>5000	2360	3280	1712
Particles >14µm		ASTM D7647	>640	402	558	291
Particles >21µm		ASTM D7647	>160	135	188	98
Particles >38µm		ASTM D7647	>40	21	29	15
Particles >71µm		ASTM D7647	>10	2	3	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/16	20/19/16	19/18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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		6	4	12
Boron	ppm	ASTM D5185m		79	114	302
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		1	2	<1
Manganese	ppm	ASTM D5185m		4	3	13
Magnesium	ppm	ASTM D5185m		7	13	0
Calcium	ppm	ASTM D5185m		12	29	7
Phosphorus	ppm	ASTM D5185m		736	848	1475
Zinc	ppm	ASTM D5185m		15	14	13
Sulfur	ppm	ASTM D5185m		20665	24865	24818
Visc @ 40°C	cSt	ASTM D445	120	104	105	102



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919048 **Received** : 17 Apr 2024
Lab Number : 06151852 **Tested** : 19 Apr 2024
Unique Number : 10981930 **Diagnosed** : 19 Apr 2024 - Don Baldrige
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)