



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

8050 8050

Component

Front Differential

Fluid

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956007	WC0794010	---
Sample Date		Client Info		12 Jul 2024	20 Mar 2023	---
Machine Age	hrs	Client Info		3103	10	---
Oil Age	hrs	Client Info		3103	10	---
Filter Age	hrs	Client Info		3103	10	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ATTENTION	---

WEAR

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

Iron	ppm	ASTM D5185m	>500	▲ 523	53	---
Chromium	ppm	ASTM D5185m	>10	2	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	3	<1	---
Lead	ppm	ASTM D5185m	>25	0	<1	---
Copper	ppm	ASTM D5185m	>100	3	1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

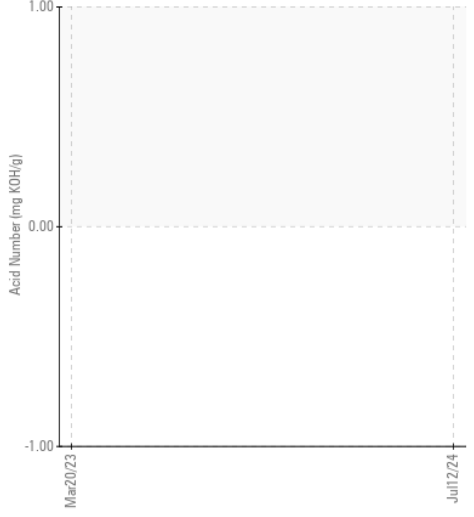
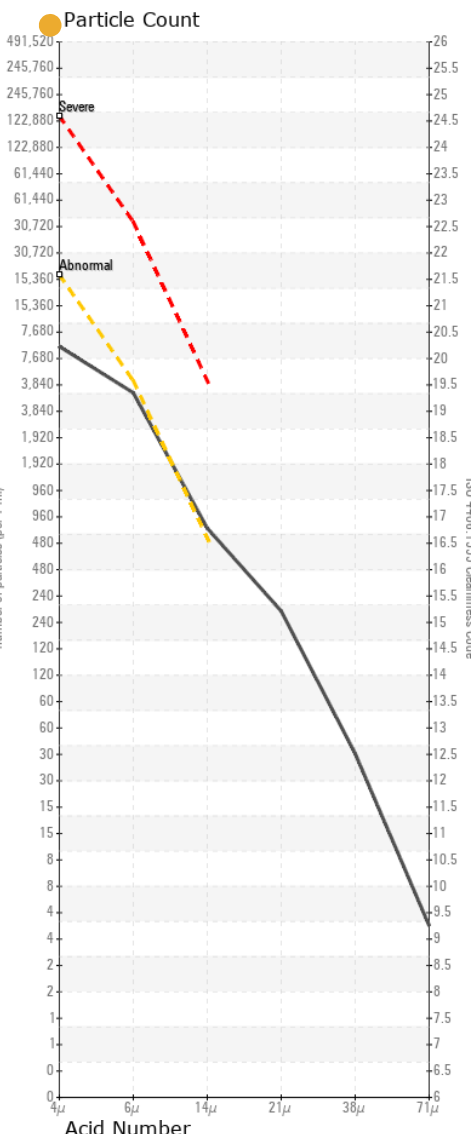
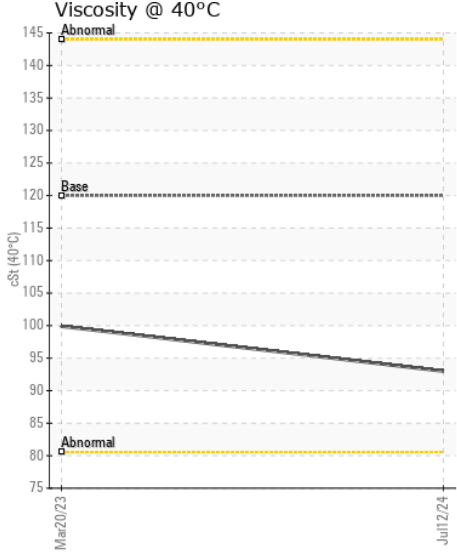
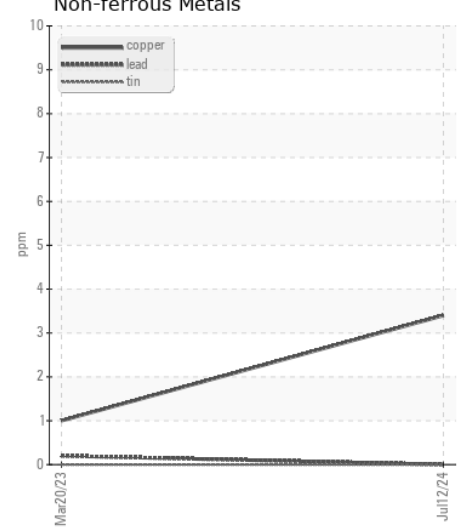
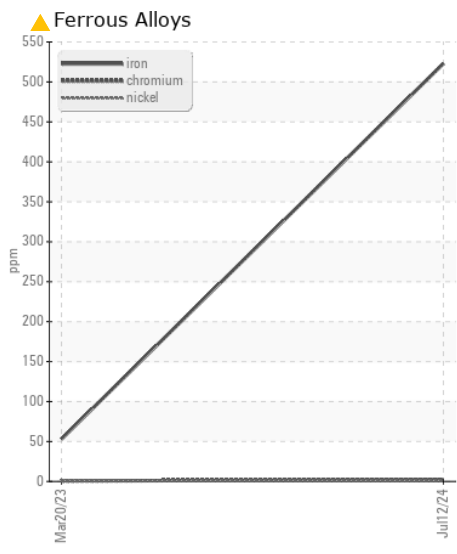
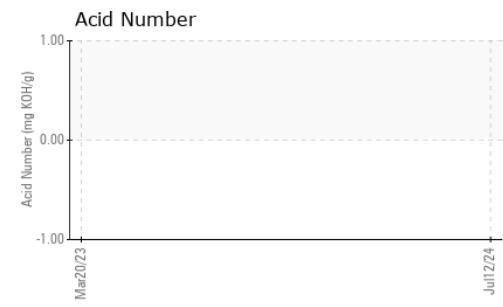
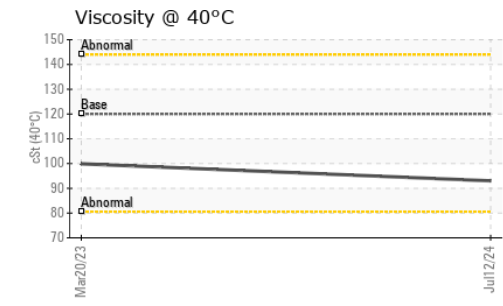
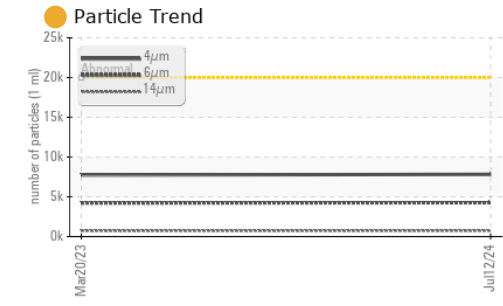
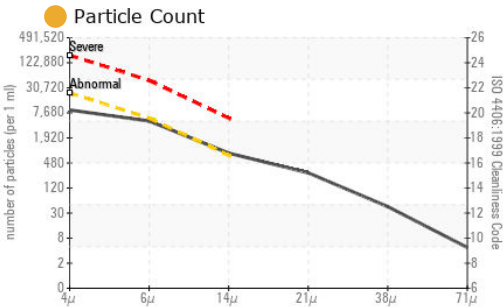
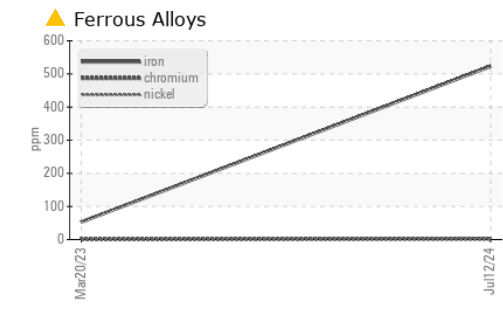
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	35	8	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Water		WC Method	>.2	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	7830	7734	---
Particles >6µm		ASTM D7647	>5000	4265	4213	---
Particles >14µm		ASTM D7647	>640	● 726	● 717	---
Particles >21µm		ASTM D7647	>160	● 245	● 242	---
Particles >38µm		ASTM D7647	>40	38	37	---
Particles >71µm		ASTM D7647	>10	4	4	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	● 20/19/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	9	---
Boron	ppm	ASTM D5185m		198	266	---
Barium	ppm	ASTM D5185m		3	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		16	10	---
Magnesium	ppm	ASTM D5185m		5	4	---
Calcium	ppm	ASTM D5185m		8	11	---
Phosphorus	ppm	ASTM D5185m		1242	1399	---
Zinc	ppm	ASTM D5185m		51	45	---
Sulfur	ppm	ASTM D5185m		23313	26476	---
Visc @ 40°C	cSt	ASTM D445	120	93.0	99.9	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956007 **Received** : 15 Jul 2024
Lab Number : 06235745 **Tested** : 16 Jul 2024
Unique Number : 11124579 **Diagnosed** : 16 Jul 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)