



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6466 6466
 Component
Rear Differential
 Fluid
MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0939353	WC0808413	---
Sample Date		Client Info		21 May 2024	20 Apr 2023	---
Machine Age	hrs	Client Info		2159	71	---
Oil Age	hrs	Client Info		2081	71	---
Filter Age	hrs	Client Info		2081	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	74	46	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	<1	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>100	<1	0	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

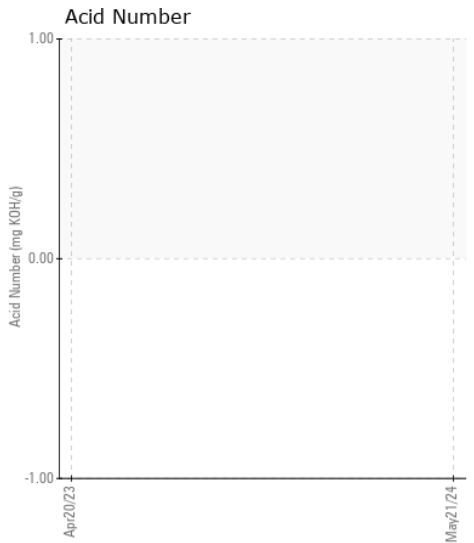
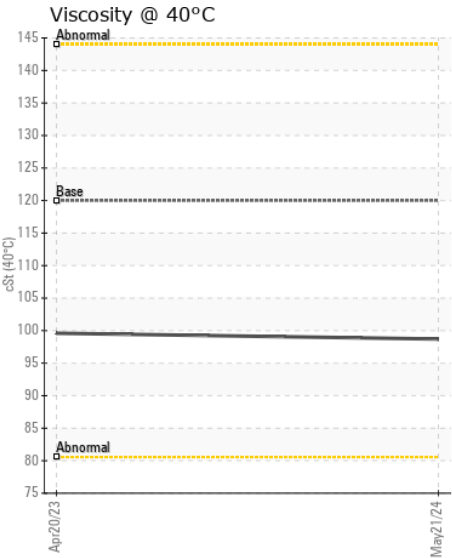
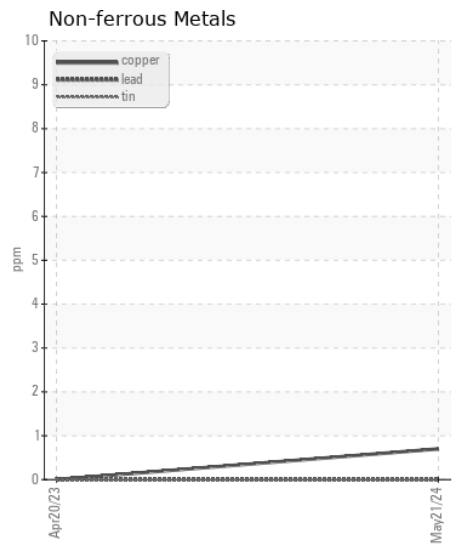
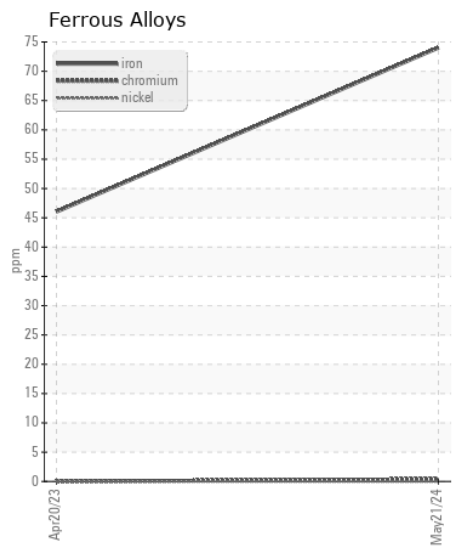
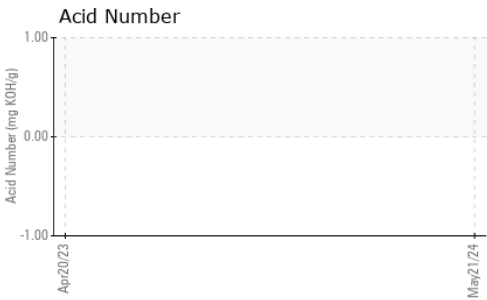
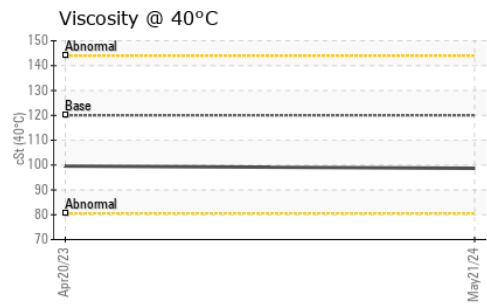
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>75	12	10	---
Potassium	ppm	ASTM D5185m	>20	6	4	---
Water		WC Method	>.2	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	---	9048	---
Particles >6µm		ASTM D7647	>5000	---	4929	---
Particles >14µm		ASTM D7647	>640	---	839	---
Particles >21µm		ASTM D7647	>160	---	283	---
Particles >38µm		ASTM D7647	>40	---	44	---
Particles >71µm		ASTM D7647	>10	---	4	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	---	20/19/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER	---
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		10	10	---
Boron	ppm	ASTM D5185m		306	293	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		8	7	---
Magnesium	ppm	ASTM D5185m		6	<1	---
Calcium	ppm	ASTM D5185m		6	2	---
Phosphorus	ppm	ASTM D5185m		1507	1483	---
Zinc	ppm	ASTM D5185m		6	0	---
Sulfur	ppm	ASTM D5185m		28873	25056	---
Visc @ 40°C	cSt	ASTM D445	120	98.7	99.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939353 **Received** : 24 May 2024
Lab Number : 06190932 **Tested** : 29 May 2024
Unique Number : 11047684 **Diagnosed** : 29 May 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)