



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Mobile Fleet

Machine Id
1525 1525

Component
Differential

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937843	WC0630659	WCMCF44444
Sample Date		Client Info		08 Jul 2024	28 Dec 2021	02 Feb 2018
Machine Age	hrs	Client Info		19794	16612	10647
Oil Age	hrs	Client Info		3182	6258	293
Filter Age	hrs	Client Info		3182	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	207	156	164
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>25	25	9	10
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>100	4	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

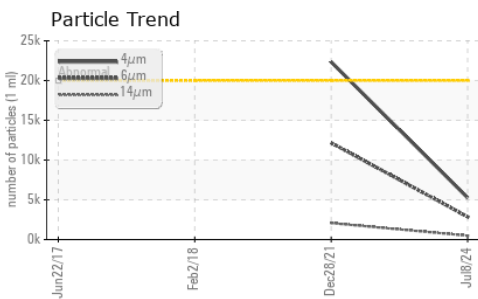
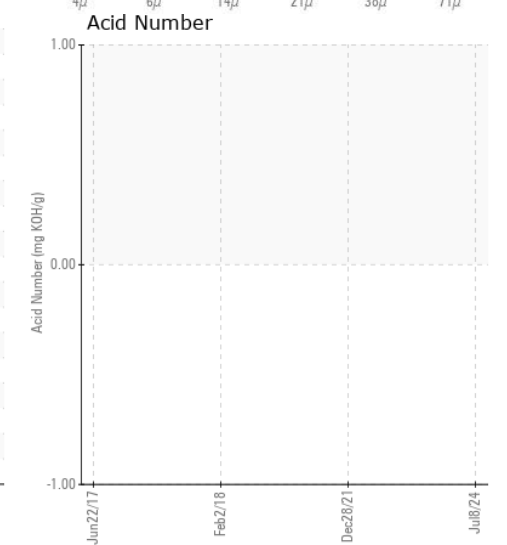
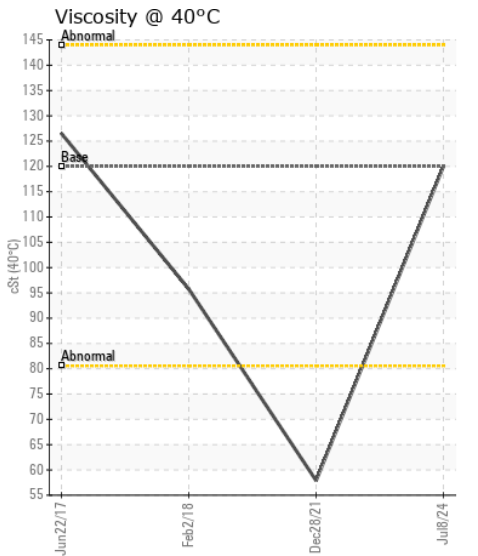
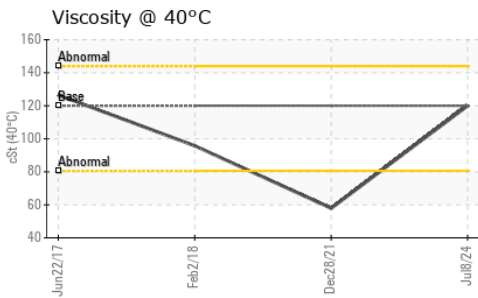
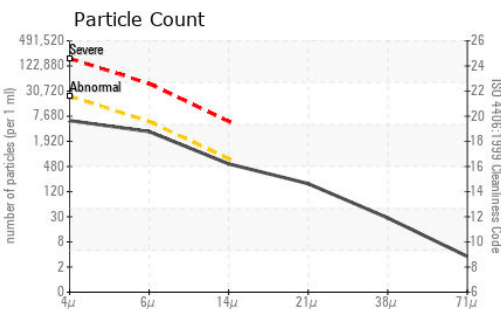
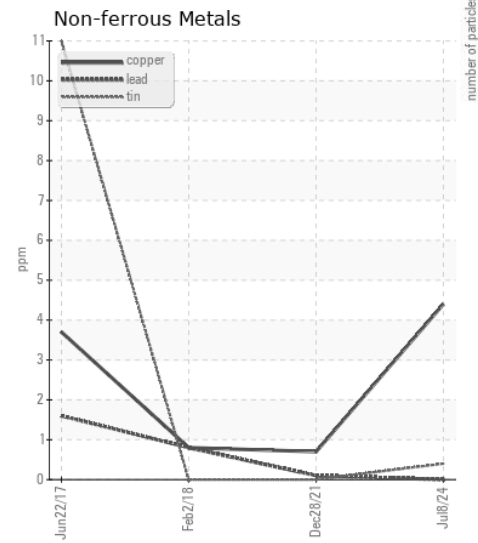
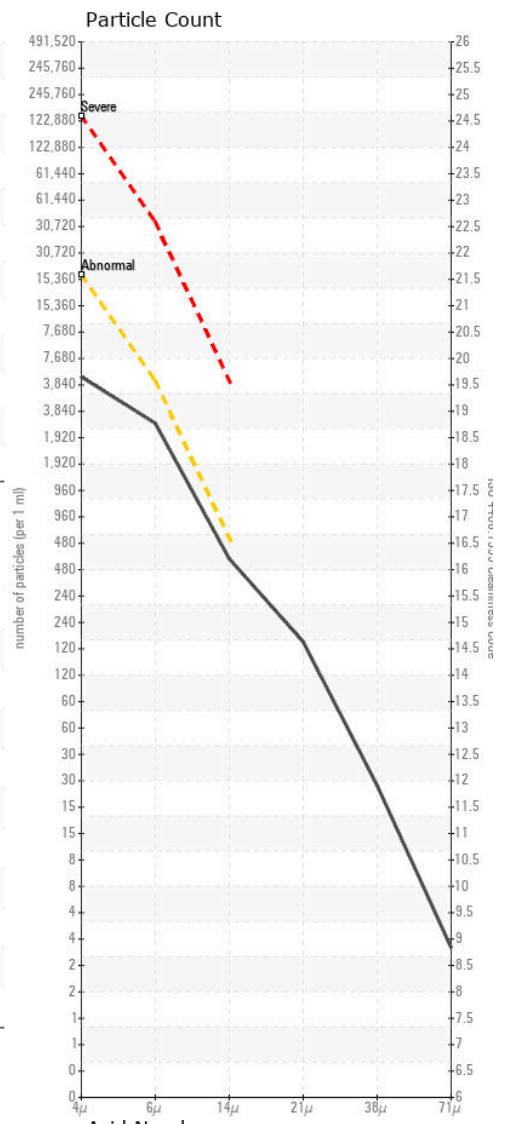
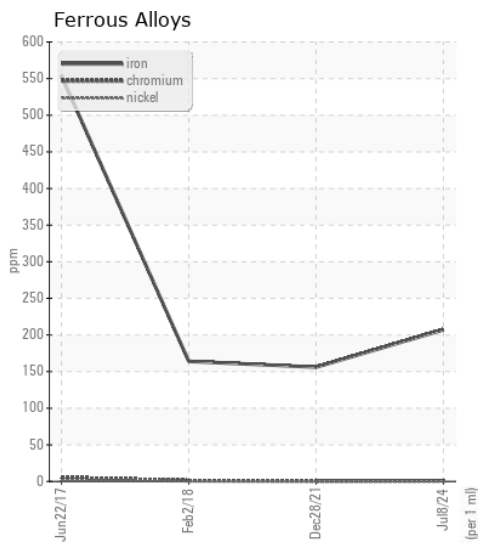
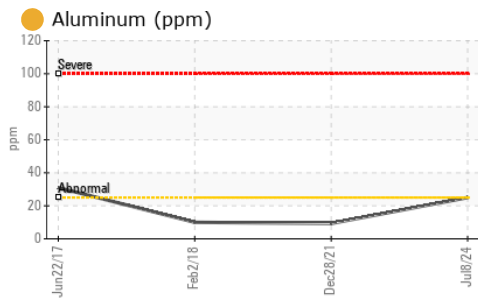
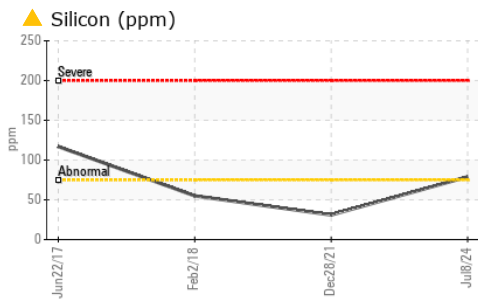
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	▲ 79	31	55
Potassium	ppm	ASTM D5185m	>20	4	0	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	5255	▲ 22341	---
Particles >6µm		ASTM D7647	>5000	2862	▲ 12170	---
Particles >14µm		ASTM D7647	>640	487	▲ 2071	---
Particles >21µm		ASTM D7647	>160	164	▲ 698	---
Particles >38µm		ASTM D7647	>40	25	▲ 108	---
Particles >71µm		ASTM D7647	>10	3	▲ 11	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	▲ 22/21/18	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	2	6
Boron	ppm	ASTM D5185m		119	27	181
Barium	ppm	ASTM D5185m		0	2	2
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		7	2	2
Magnesium	ppm	ASTM D5185m		20	7	<1
Calcium	ppm	ASTM D5185m		1054	139	234
Phosphorus	ppm	ASTM D5185m		1226	435	1251
Zinc	ppm	ASTM D5185m		366	39	110
Sulfur	ppm	ASTM D5185m		22841	18121	22339
Visc @ 40°C	cSt	ASTM D445	120	120	● 57.9	95.75



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937843 **Received** : 10 Jul 2024
Lab Number : 06232164 **Tested** : 11 Jul 2024
Unique Number : 11115657 **Diagnosed** : 11 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PrtCount)

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)

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