



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6429 6429
 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		WC0947798	WC0808860	WC0688238
Sample Date		Client Info		14 Jun 2024	21 Apr 2023	18 Apr 2022
Machine Age	hrs	Client Info		12694	10510	8401
Oil Age	hrs	Client Info		4297	2113	4188
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changed	Not Changd	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	71	71	105
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	2	6
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

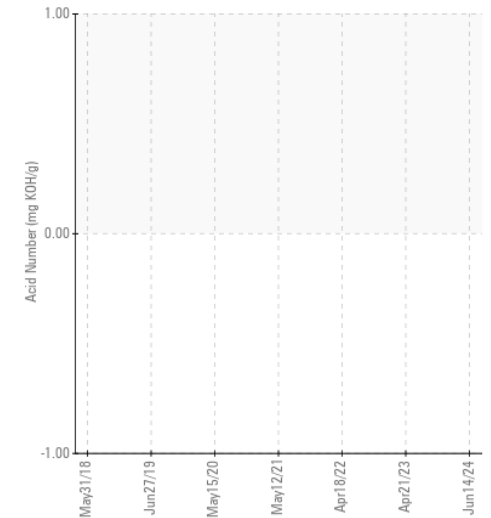
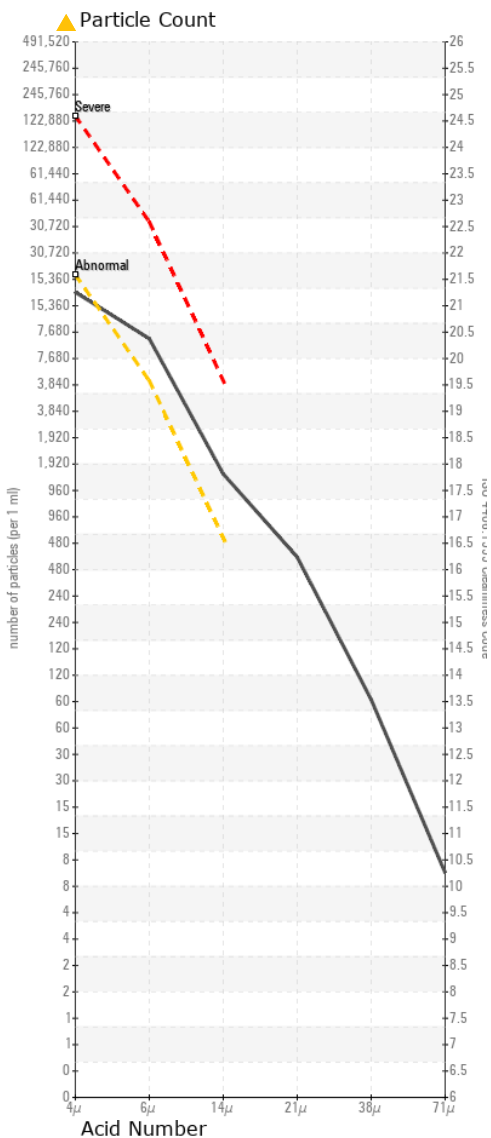
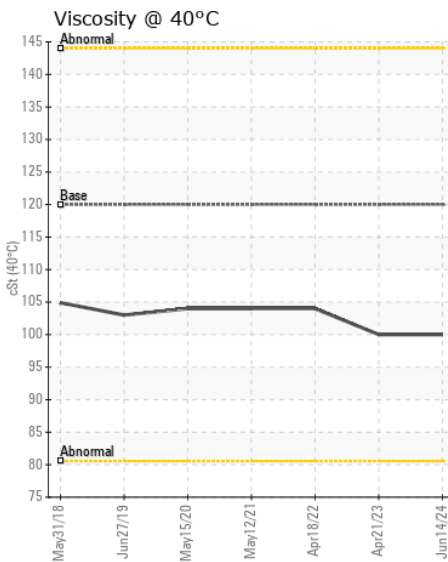
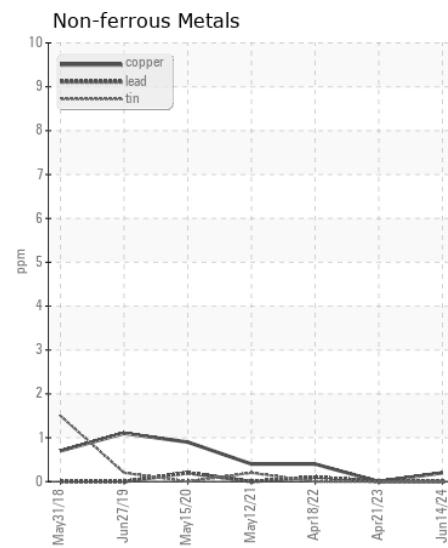
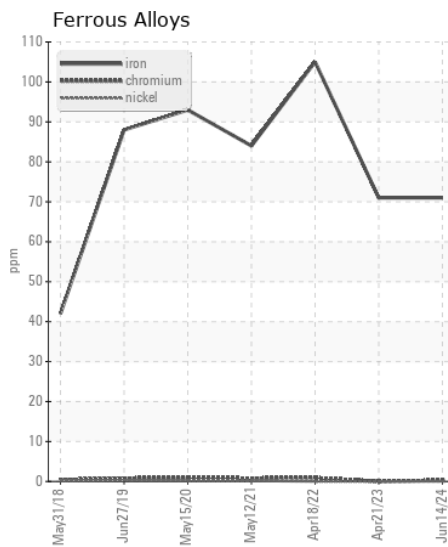
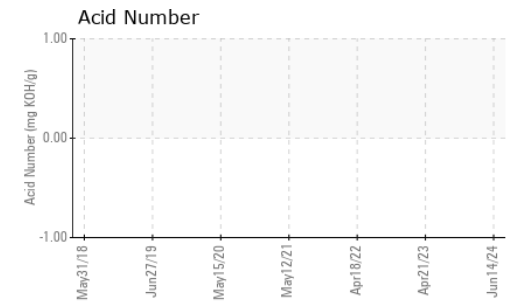
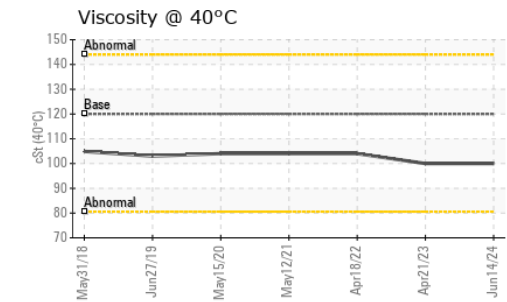
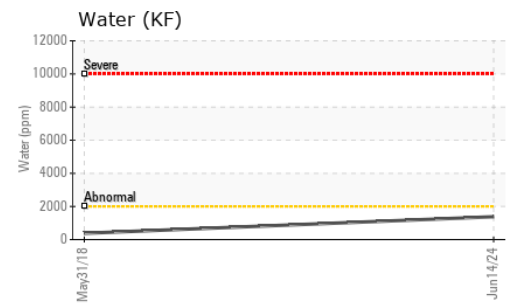
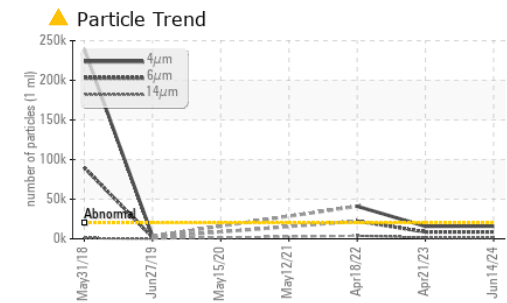
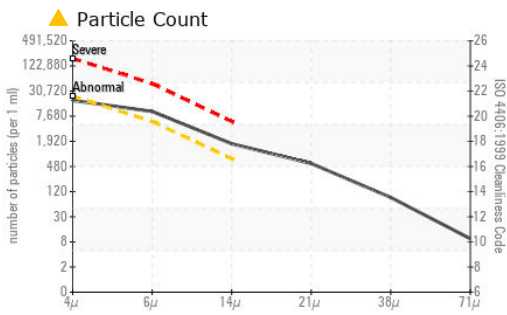
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	13	8	13
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water	%	ASTM D6304	>.2	0.138	---	---
ppm Water	ppm	ASTM D6304	>2000	1380	---	---
Particles >4µm		ASTM D7647	>20000	15920	15772	▲ 41097
Particles >6µm		ASTM D7647	>5000	▲ 8673	▲ 8592	▲ 22388
Particles >14µm		ASTM D7647	>640	▲ 1476	▲ 1462	▲ 3810
Particles >21µm		ASTM D7647	>160	▲ 497	▲ 493	▲ 1283
Particles >38µm		ASTM D7647	>40	▲ 77	▲ 76	▲ 198
Particles >71µm		ASTM D7647	>10	8	8	▲ 20
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 21/20/18	▲ 21/20/18	▲ 23/22/19
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	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	1	1
Boron	ppm	ASTM D5185m		291	349	309
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	3
Manganese	ppm	ASTM D5185m		<1	2	3
Magnesium	ppm	ASTM D5185m		20	21	32
Calcium	ppm	ASTM D5185m		65	61	80
Phosphorus	ppm	ASTM D5185m		1389	1424	1402
Zinc	ppm	ASTM D5185m		46	32	60
Sulfur	ppm	ASTM D5185m		19455	25056	17852
Visc @ 40°C	cSt	ASTM D445	120	100	100	104



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947798 **Received** : 19 Jun 2024
Lab Number : 06214518 **Tested** : 21 Jun 2024
Unique Number : 11087382 **Diagnosed** : 21 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, 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)