



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6433 6433
 Component
Rear Differential
 Fluid
GEAR OIL SAE 75W90 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919059	WC0808873	WC0545019
Sample Date		Client Info		10 Apr 2024	14 Apr 2023	24 Feb 2022
Machine Age	hrs	Client Info		12713	11209	8514
Oil Age	hrs	Client Info		4183	2679	4345
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	97	61	73
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	1
Lead	ppm	ASTM D5185m	>25	1	0	0
Copper	ppm	ASTM D5185m	>100	2	<1	2
Tin	ppm	ASTM D5185m	>10	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

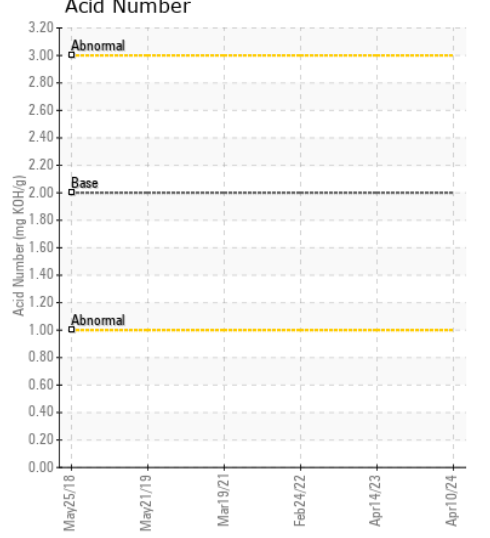
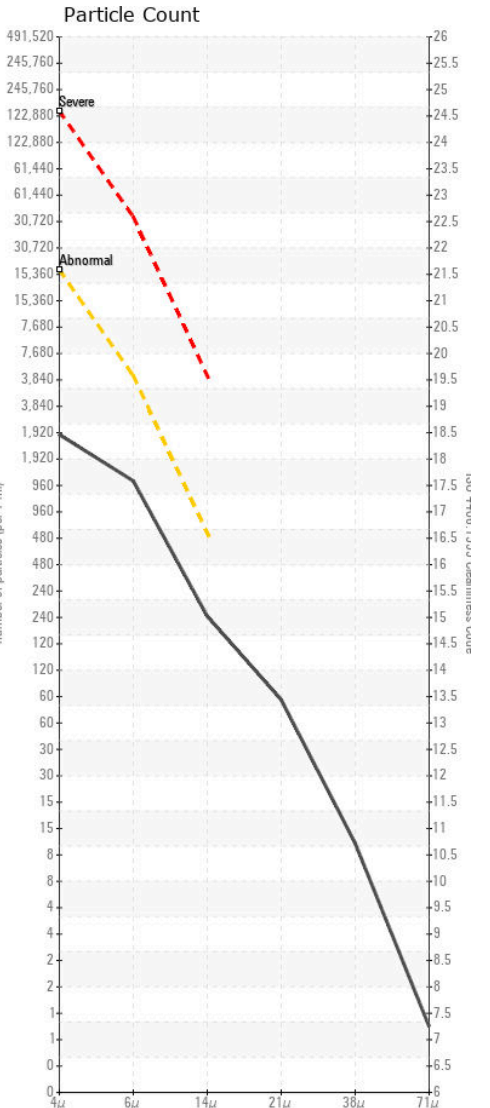
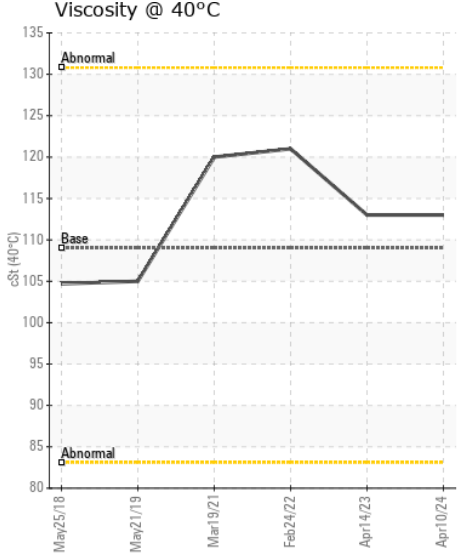
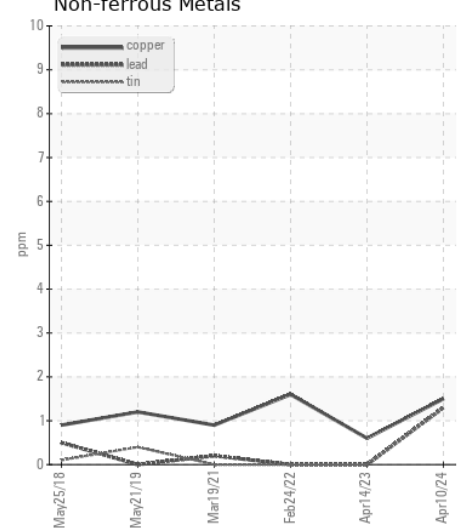
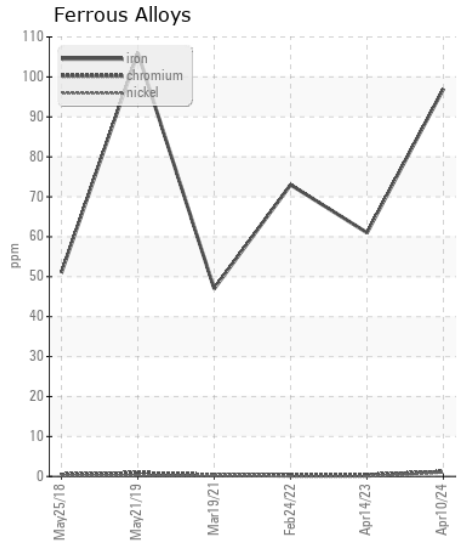
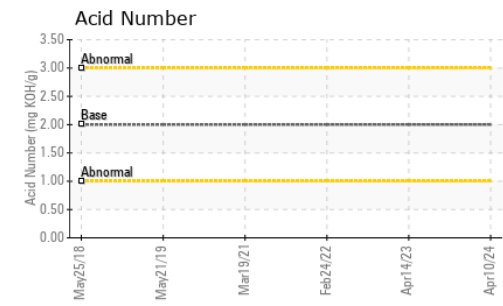
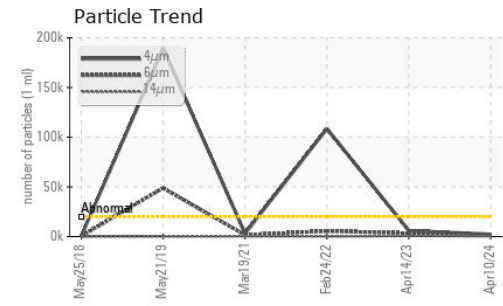
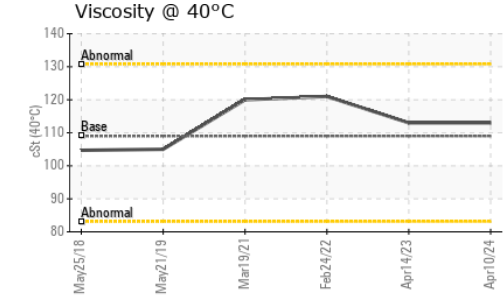
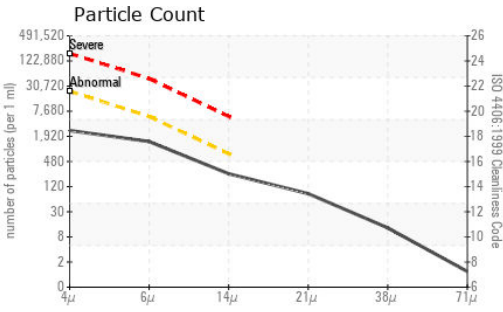
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	15	11	6
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	2314	6081	▲ 108590
Particles >6µm		ASTM D7647	>5000	1261	3313	● 5546
Particles >14µm		ASTM D7647	>640	215	564	40
Particles >21µm		ASTM D7647	>160	72	190	5
Particles >38µm		ASTM D7647	>40	11	29	0
Particles >71µm		ASTM D7647	>10	1	3	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/15	20/19/16	▲ 24/20/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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		<1	2	2
Boron	ppm	ASTM D5185m	400	42	26	289
Barium	ppm	ASTM D5185m	200	1	0	0
Molybdenum	ppm	ASTM D5185m	12	2	<1	<1
Manganese	ppm	ASTM D5185m		4	2	3
Magnesium	ppm	ASTM D5185m	12	8	9	9
Calcium	ppm	ASTM D5185m	150	28	24	24
Phosphorus	ppm	ASTM D5185m	1650	700	631	1289
Zinc	ppm	ASTM D5185m	125	22	18	31
Sulfur	ppm	ASTM D5185m	22500	20646	21464	18008
Visc @ 40°C	cSt	ASTM D445	109	113	113	121



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919059 **Received** : 12 Apr 2024
Lab Number : 06147199 **Tested** : 16 Apr 2024
Unique Number : 10977277 **Diagnosed** : 16 Apr 2024 - Jonathan Hester
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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