



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet

Machine Id
6457 6457

Component
Gearbox

Fluid
GEAR OIL SAE 85W140 (3 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		WC0939284	WC0726359	---
Sample Date		Client Info		22 May 2024	02 Aug 2022	---
Machine Age	hrs	Client Info		4174	37	---
Oil Age	hrs	Client Info		4137	37	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changed	---
Filter Changed		Client Info		Not Changed	Not Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	128	15	---
Chromium	ppm	ASTM D5185m	>10	4	<1	---
Nickel	ppm	ASTM D5185m	>10	2	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	1	<1	---
Lead	ppm	ASTM D5185m	>50	0	0	---
Copper	ppm	ASTM D5185m	>200	3	1	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

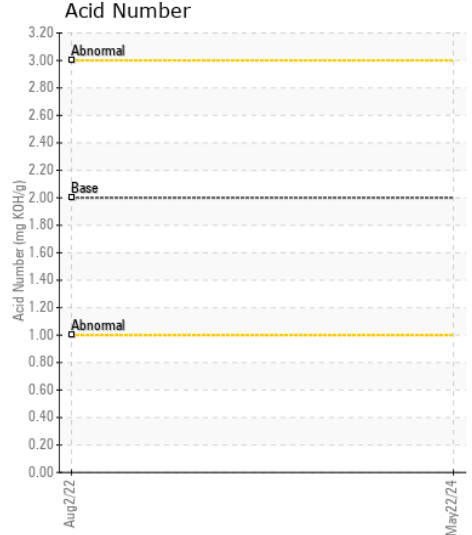
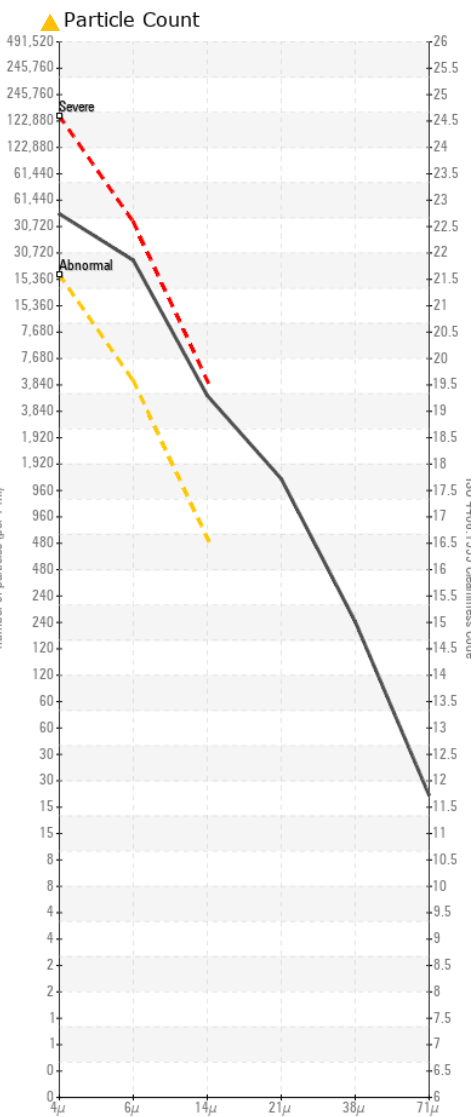
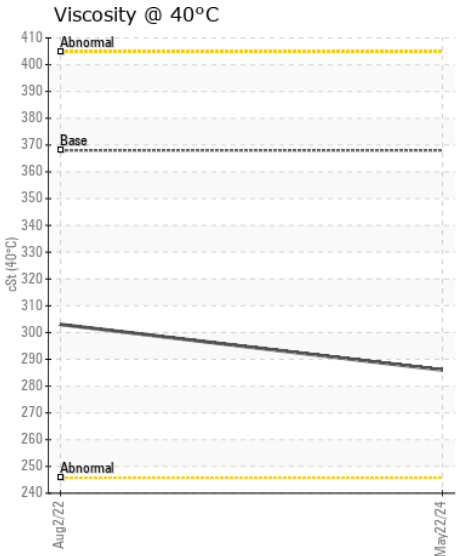
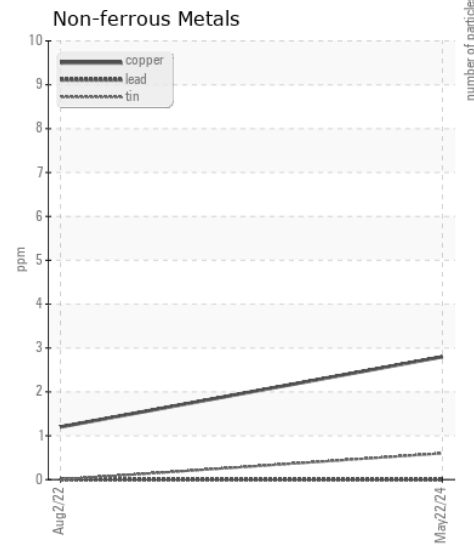
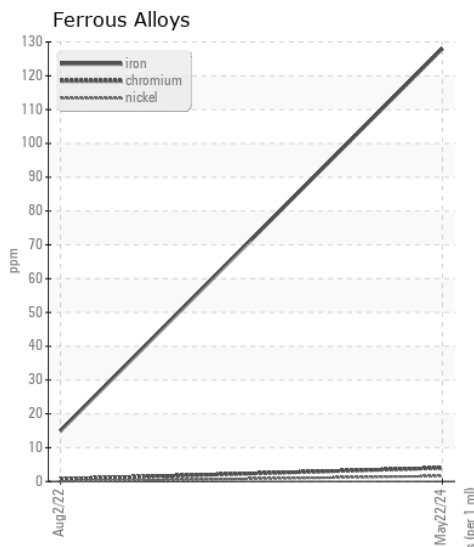
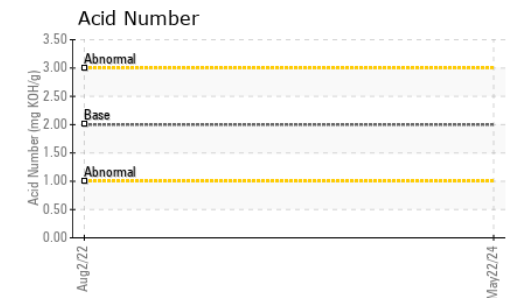
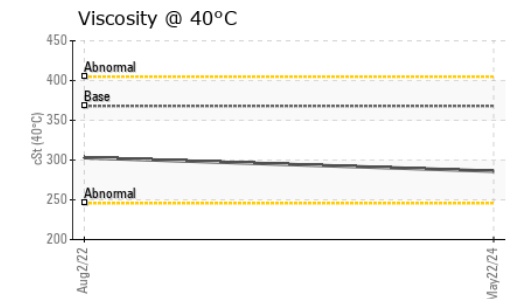
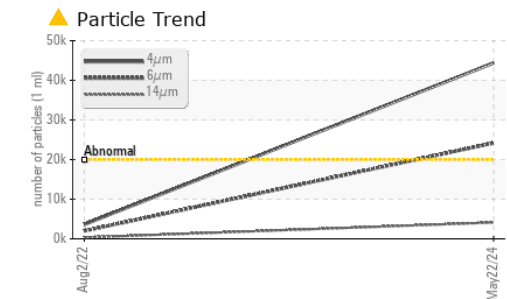
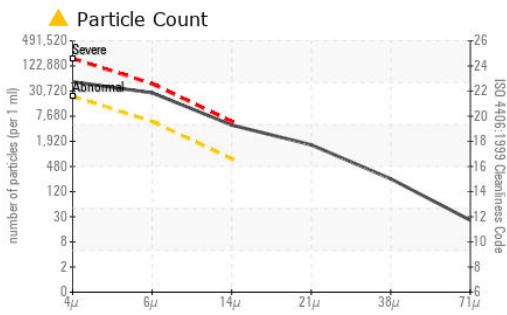
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>50	4	2	---
Potassium	ppm	ASTM D5185m	>20	10	15	---
Water		WC Method	>0.2	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	▲ 44394	3621	---
Particles >6µm		ASTM D7647	>5000	▲ 24184	1973	---
Particles >14µm		ASTM D7647	>640	▲ 4116	336	---
Particles >21µm		ASTM D7647	>160	▲ 1386	113	---
Particles >38µm		ASTM D7647	>40	▲ 214	17	---
Particles >71µm		ASTM D7647	>10	▲ 22	2	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 23/22/19	19/18/16	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	0	---
Boron	ppm	ASTM D5185m	400	183	240	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	14	15	---
Manganese	ppm	ASTM D5185m		5	<1	---
Magnesium	ppm	ASTM D5185m	12	29	27	---
Calcium	ppm	ASTM D5185m	150	94	84	---
Phosphorus	ppm	ASTM D5185m	1650	1012	974	---
Zinc	ppm	ASTM D5185m	125	77	63	---
Sulfur	ppm	ASTM D5185m	22500	23537	22382	---
Visc @ 40°C	cSt	ASTM D445	368	286	303	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939284 **Received** : 28 May 2024
Lab Number : 06192739 **Tested** : 31 May 2024
Unique Number : 11049491 **Diagnosed** : 31 May 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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