



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Contracting

Machine Id
5109 5109

Component
Front Right Wheel Hub

Fluid
GEAR OIL SAE 75W90 (--- 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		WC0939259	---	---
Sample Date		Client Info		22 May 2024	---	---
Machine Age	hrs	Client Info		3278	---	---
Oil Age	hrs	Client Info		1022	---	---
Filter Age	hrs	Client Info		1022	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 744	---	---
Chromium	ppm	ASTM D5185m	>8	9	---	---
Nickel	ppm	ASTM D5185m	>5	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>5	2	---	---
Lead	ppm	ASTM D5185m	>5	<1	---	---
Copper	ppm	ASTM D5185m	>50	3	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

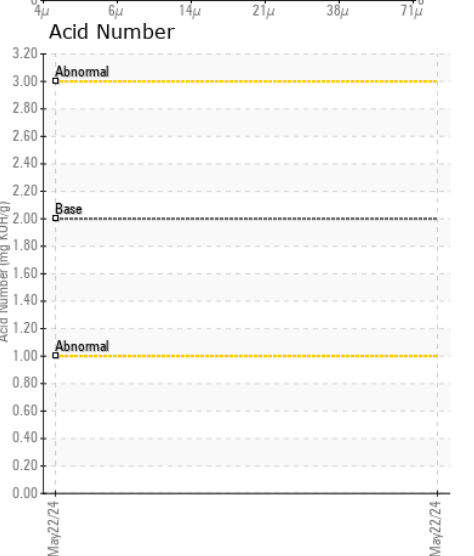
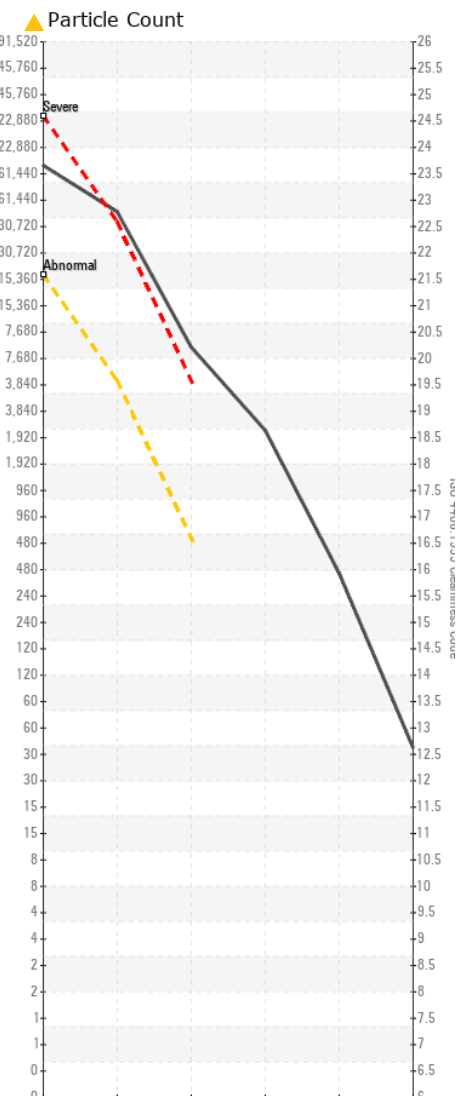
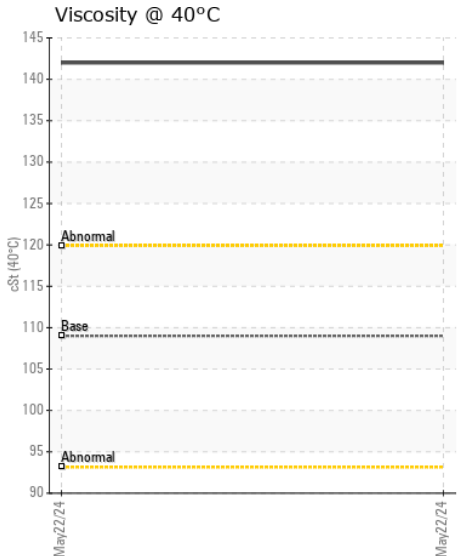
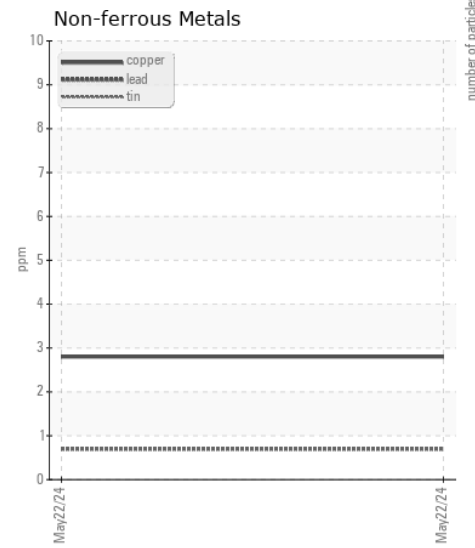
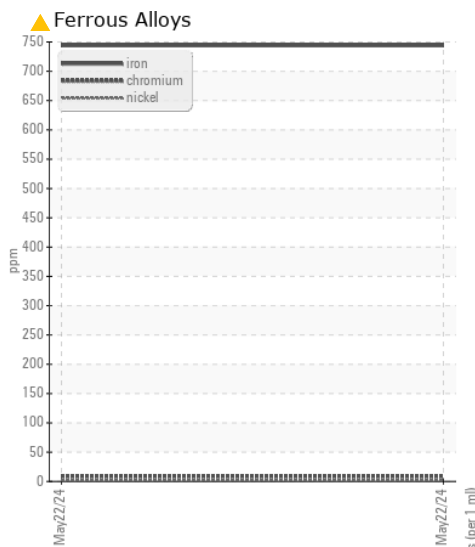
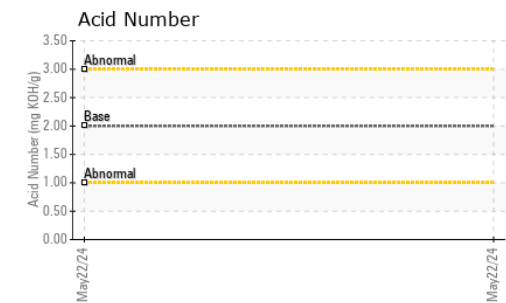
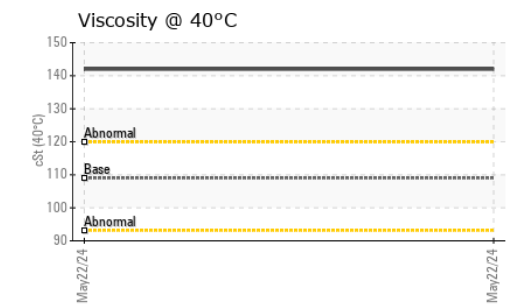
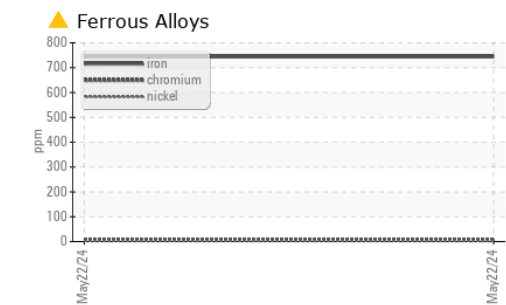
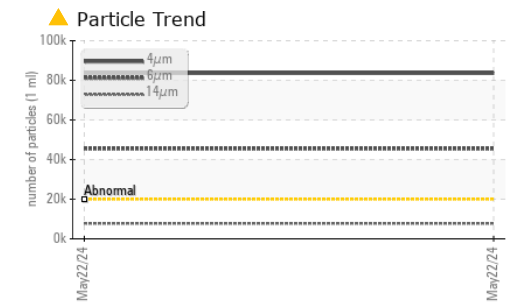
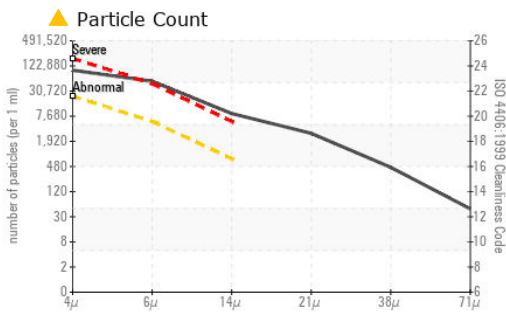
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	14	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Water		WC Method	>0.2	NEG	---	---
Particles >4µm		ASTM D7647	>20000	▲ 83595	---	---
Particles >6µm		ASTM D7647	>5000	▲ 45539	---	---
Particles >14µm		ASTM D7647	>640	▲ 7750	---	---
Particles >21µm		ASTM D7647	>160	▲ 2611	---	---
Particles >38µm		ASTM D7647	>40	▲ 403	---	---
Particles >71µm		ASTM D7647	>10	▲ 41	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/23/20	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m	400	20	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	2	---	---
Manganese	ppm	ASTM D5185m		11	---	---
Magnesium	ppm	ASTM D5185m	12	19	---	---
Calcium	ppm	ASTM D5185m	150	57	---	---
Phosphorus	ppm	ASTM D5185m	1650	571	---	---
Zinc	ppm	ASTM D5185m	125	60	---	---
Sulfur	ppm	ASTM D5185m	22500	21289	---	---
Visc @ 40°C	cSt	ASTM D445	109	142	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939259 **Received** : 28 May 2024
Lab Number : 06192734 **Tested** : 31 May 2024
Unique Number : 11049486 **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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