



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
537
Component
Right Final Drive
Fluid
GEAR OIL SAE 75W140 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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		LEC0049528	LEC0041228	---
Sample Date		Client Info		30 May 2024	09 Jun 2023	---
Machine Age	hrs	Client Info		2446	1990	---
Oil Age	hrs	Client Info		456	1000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		342	111	---
Iron	ppm	ASTM D5185m	>500	399	336	---
Chromium	ppm	ASTM D5185m	>10	4	3	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		2	1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	16	16	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>50	101	192	---
Tin	ppm	ASTM D5185m	>10	6	10	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

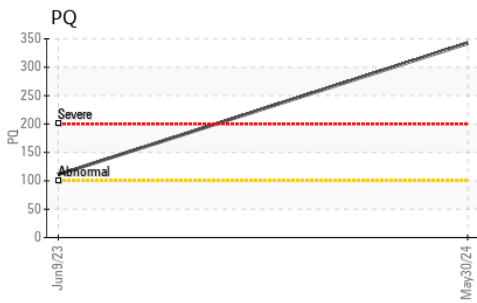
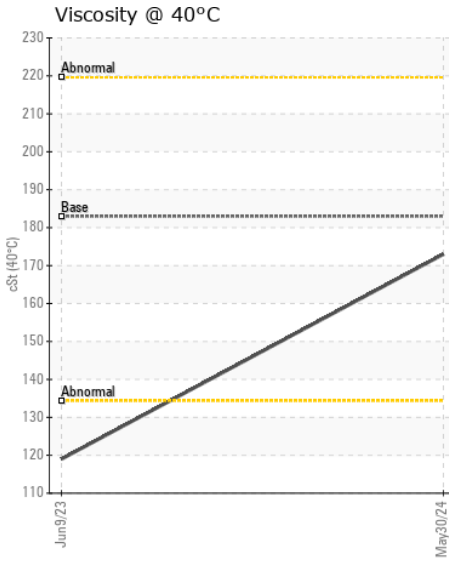
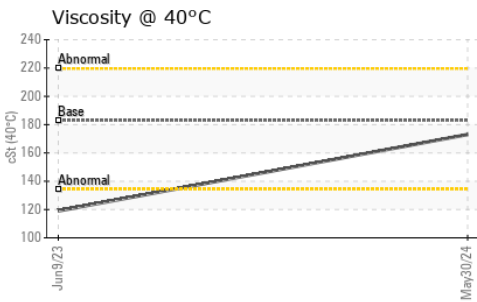
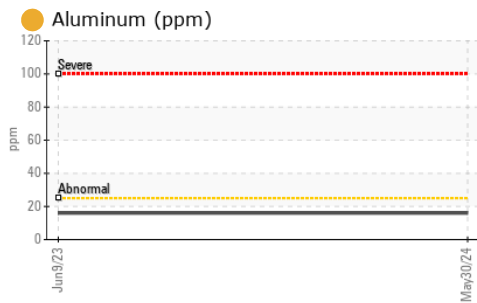
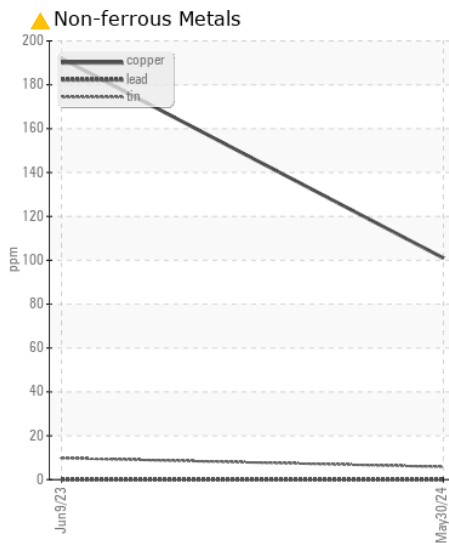
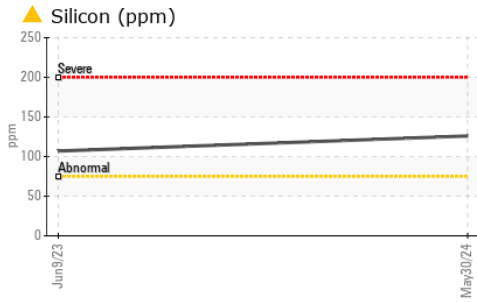
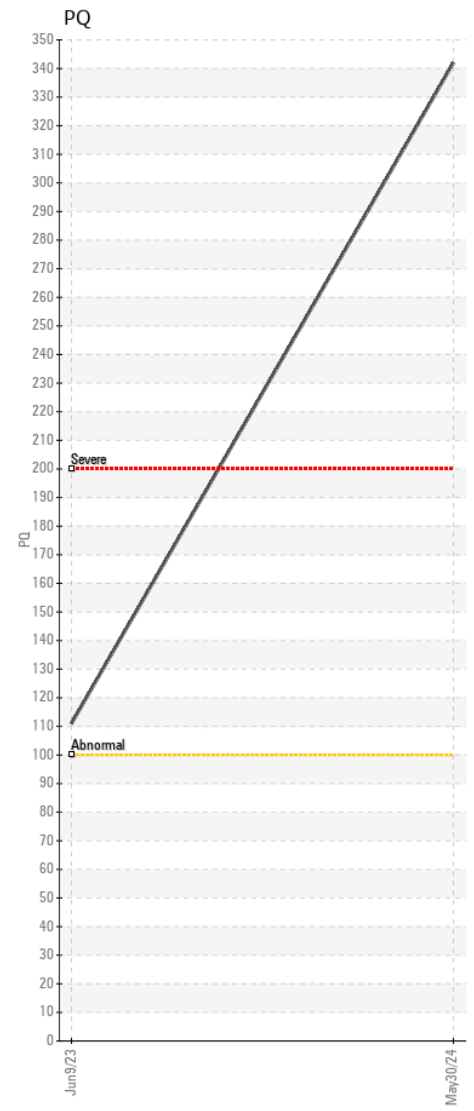
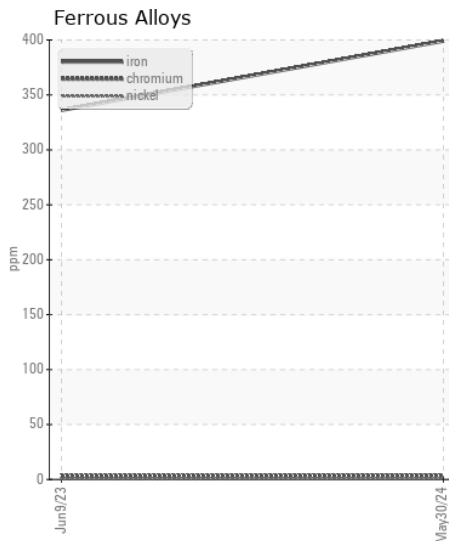
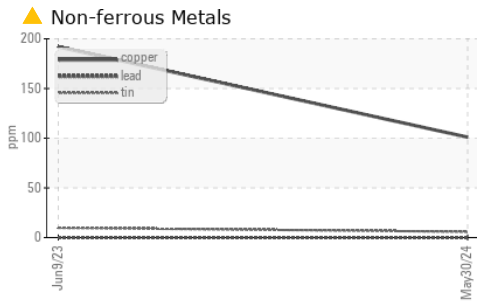
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	126	107	---
Potassium	ppm	ASTM D5185m	>20	6	5	---
Water		WC Method	>0.2	NEG	NEG	---
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		1	3	---
Boron	ppm	ASTM D5185m	400	143	48	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	5	30	---
Manganese	ppm	ASTM D5185m		4	4	---
Magnesium	ppm	ASTM D5185m	12	52	287	---
Calcium	ppm	ASTM D5185m	150	153	451	---
Phosphorus	ppm	ASTM D5185m	1650	1512	656	---
Zinc	ppm	ASTM D5185m	125	94	315	---
Sulfur	ppm	ASTM D5185m	22500	17699	15275	---
Visc @ 40°C	cSt	ASTM D445	183	173	119	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049528 **Received** : 18 Jun 2024
Lab Number : 06213742 **Tested** : 20 Jun 2024
Unique Number : 11086606 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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