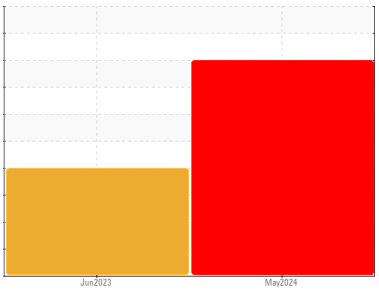
PROBLEM SUMMARY

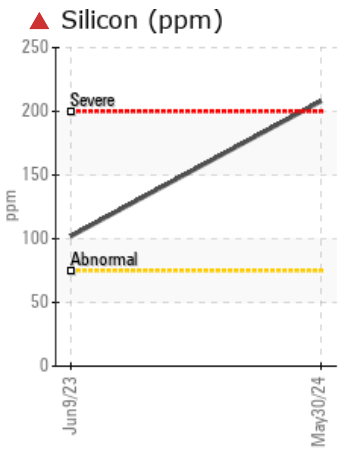
Sample Rating Trend

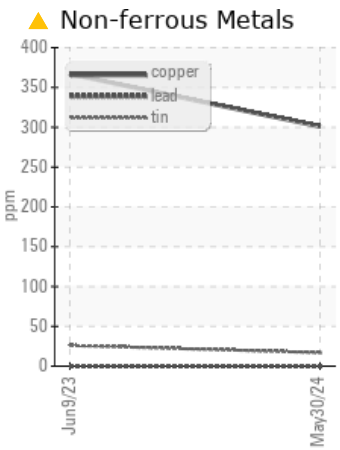


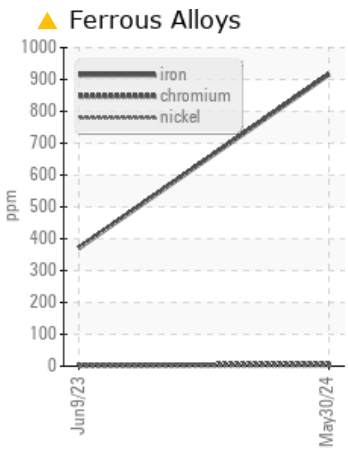
DIRT

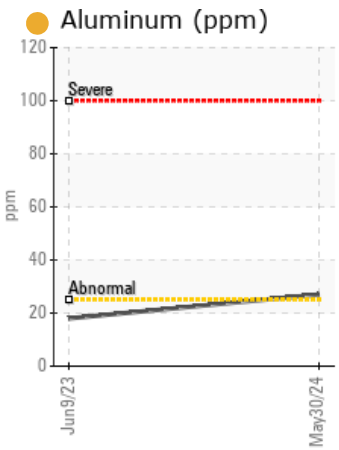
Area
Store 9 - Marietta
Machine Id
537
Component
Left Final Drive
Fluid
GEAR OIL SAE 75W140 (--- GAL)

COMPONENT CONDITION SUMMARY









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. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>500	▲ **916**	371	---
Copper	ppm	ASTM D5185m	>50	▲ **301**	▲ 367	---
Tin	ppm	ASTM D5185m	>10	▲ **17**	▲ 26	---
Silicon	ppm	ASTM D5185m	>75	▲ **208**	▲ 102	---

Customer Id: LARBELOH
Sample No.: LEC0049529
Lab Number: 06213747
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

DIRT

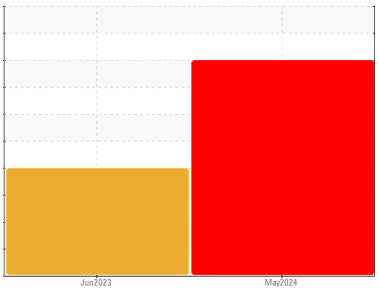
09 Jun 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Bearing and/or bushing wear is indicated. All other metal levels are typical for a new component breaking in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

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

DIAGNOSIS

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. We recommend an early resample to monitor this condition.

Wear
Bearing and/or gear wear is indicated.

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

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**LEC0049529**	LEC0041227	---
Sample Date		Client Info		**30 May 2024**	09 Jun 2023	---
Machine Age	hrs	Client Info		**2446**	1990	---
Oil Age	hrs	Client Info		**456**	1000	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**SEVERE**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**1220**	114	---
Iron	ppm	ASTM D5185m	>500	▲ **916**	371	---
Chromium	ppm	ASTM D5185m	>10	**6**	3	---
Nickel	ppm	ASTM D5185m	>10	**1**	<1	---
Titanium	ppm	ASTM D5185m		**3**	1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	● **27**	● 18	---
Lead	ppm	ASTM D5185m	>25	**0**	0	---
Copper	ppm	ASTM D5185m	>50	▲ **301**	▲ 367	---
Tin	ppm	ASTM D5185m	>10	▲ **17**	▲ 26	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**72**	37	---
Barium	ppm	ASTM D5185m	200	**0**	0	---
Molybdenum	ppm	ASTM D5185m	12	**5**	23	---
Manganese	ppm	ASTM D5185m		**9**	4	---
Magnesium	ppm	ASTM D5185m	12	**43**	228	---
Calcium	ppm	ASTM D5185m	150	**55**	365	---
Phosphorus	ppm	ASTM D5185m	1650	**1485**	644	---
Zinc	ppm	ASTM D5185m	125	**60**	272	---
Sulfur	ppm	ASTM D5185m	22500	**18567**	17205	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **208**	▲ 102	---
Sodium	ppm	ASTM D5185m		**2**	2	---
Potassium	ppm	ASTM D5185m	>20	**11**	7	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	MODER	---
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	---
Free Water	scalar	*Visual		**NEG**	NEG	---

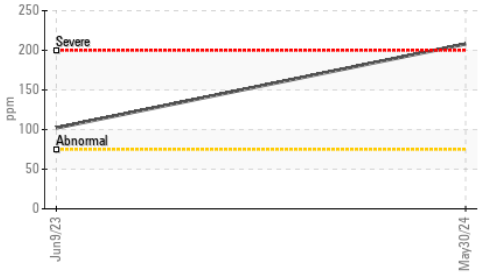
OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	183	**179**	162	---

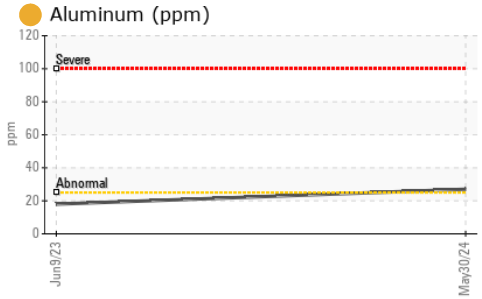
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

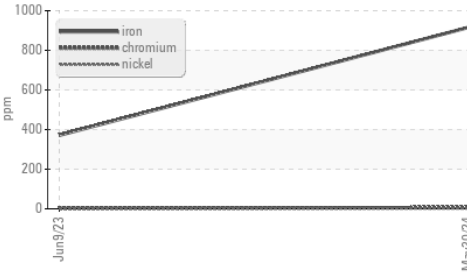
Silicon (ppm)



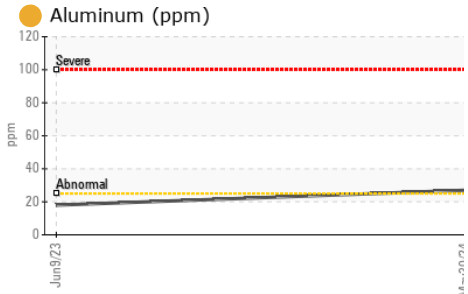
Aluminum (ppm)



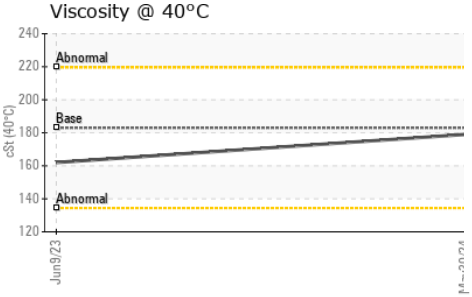
Ferrous Alloys



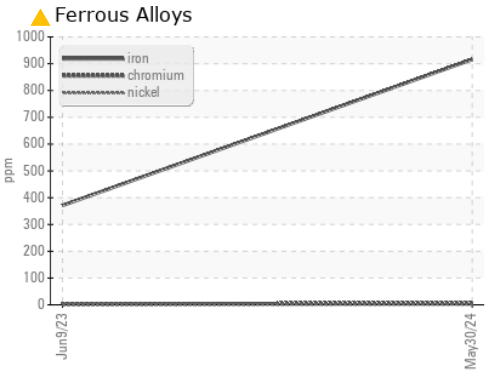
Aluminum (ppm)



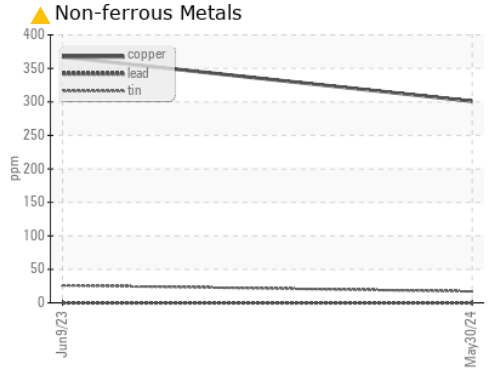
Viscosity @ 40°C



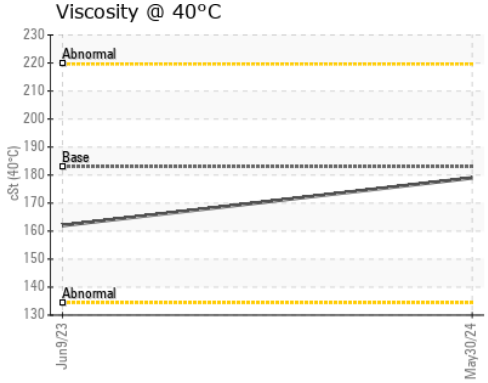
Ferrous Alloys



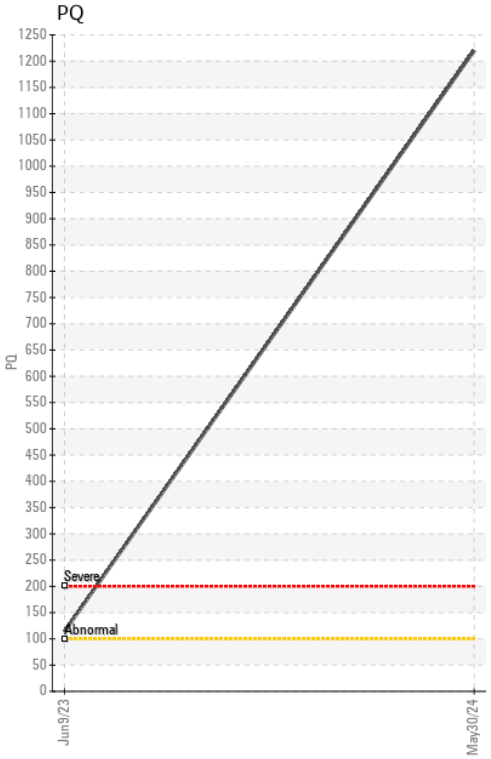
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049529 **Received** : 18 Jun 2024
Lab Number : 06213747 **Tested** : 20 Jun 2024
Unique Number : 11086611 **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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