



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta

Machine Id

534

Component

Left 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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Bearing and/or gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

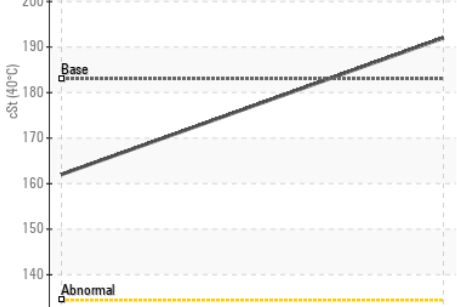
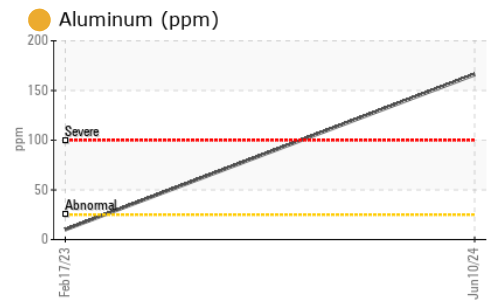
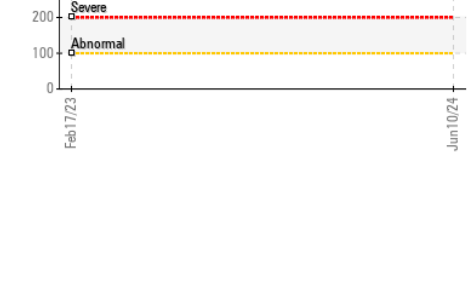
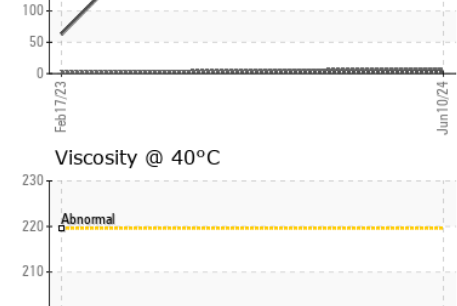
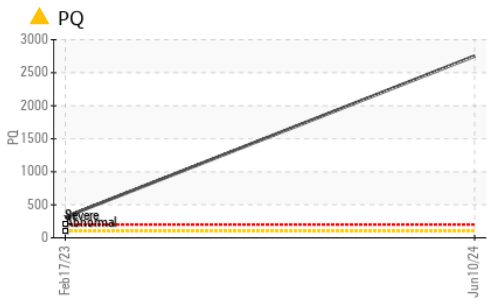
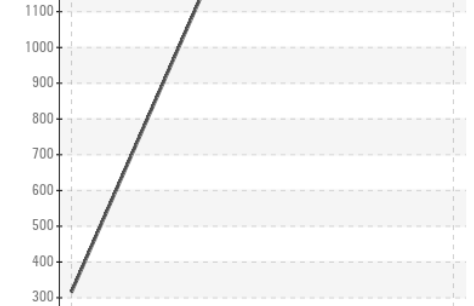
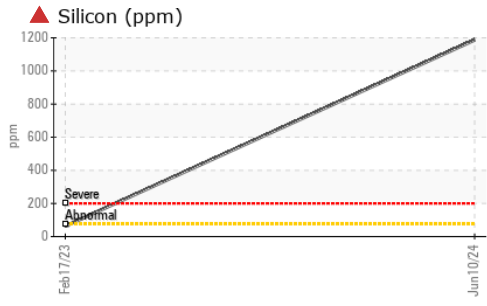
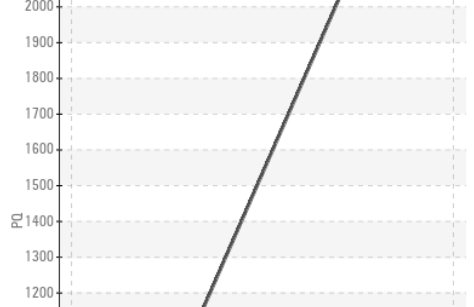
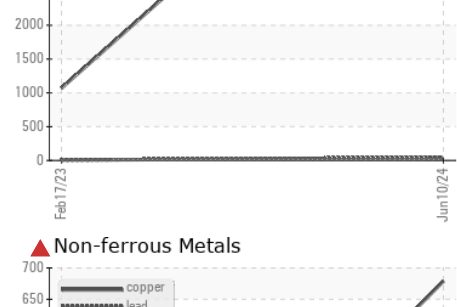
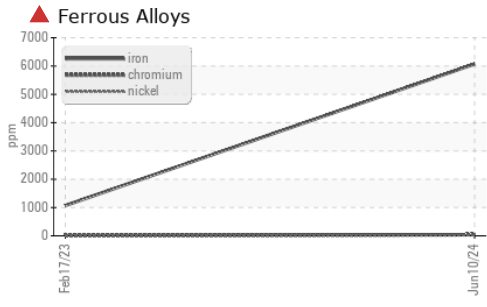
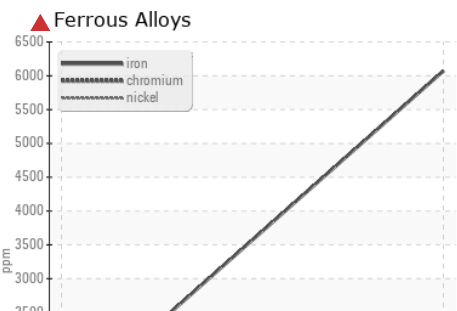
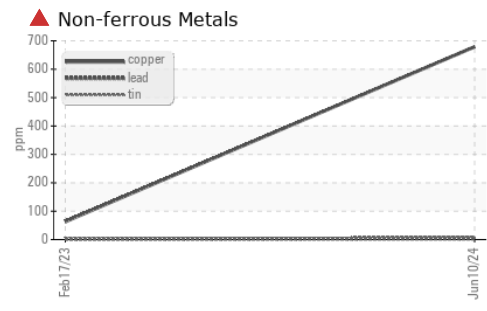
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051228	LEC0035217	---
Sample Date		Client Info		10 Jun 2024	17 Feb 2023	---
Machine Age	hrs	Client Info		4916	4442	---
Oil Age	hrs	Client Info		1000	764	---
Filter Age	hrs	Client Info		0	764	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---
PQ		ASTM D8184		▲ 2753	316	---
Iron	ppm	ASTM D5185m	>500	▲ 6073	▲ 1071	---
Chromium	ppm	ASTM D5185m	>10	▲ 42	4	---
Nickel	ppm	ASTM D5185m	>10	▲ 18	1	---
Titanium	ppm	ASTM D5185m		▲ 19	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 166	10	---
Lead	ppm	ASTM D5185m	>25	3	2	---
Copper	ppm	ASTM D5185m	>50	▲ 679	▲ 63	---
Tin	ppm	ASTM D5185m	>10	▲ 8	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	LIGHT	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 1187	63	---
Potassium	ppm	ASTM D5185m	>20	55	3	---
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	---
Sodium	ppm	ASTM D5185m		13	2	---
Boron	ppm	ASTM D5185m	400	190	155	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	6	<1	---
Manganese	ppm	ASTM D5185m		52	10	---
Magnesium	ppm	ASTM D5185m	12	28	12	---
Calcium	ppm	ASTM D5185m	150	37	32	---
Phosphorus	ppm	ASTM D5185m	1650	1635	1540	---
Zinc	ppm	ASTM D5185m	125	36	29	---
Sulfur	ppm	ASTM D5185m	22500	21304	22322	---
Visc @ 40°C	cSt	ASTM D445	183	192	162	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0051228 **Received** : 18 Jun 2024
Lab Number : 06213743 **Tested** : 20 Jun 2024
Unique Number : 11086607 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

LAROCHE TREE SERVICE
 7 COMMERCE PKWY
 BELLAIRE, OH
 US 43906
 Contact: GLEN VARGO
 glen.vargo@larochetree.com

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)