



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
091539

Component
Front Left Planetary

Fluid
GEAR OIL ISO 220 (--- 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 recommend an early resample to monitor this condition.

WEAR

Chromium and copper, iron and lead ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. Thrust washer and/or bearing/bushing wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

FLUID CONDITION

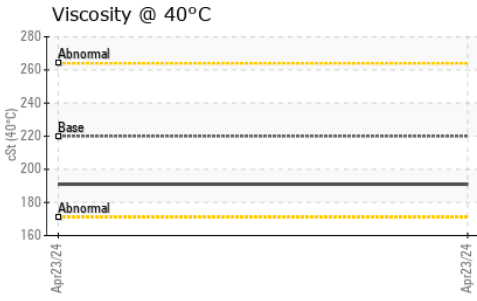
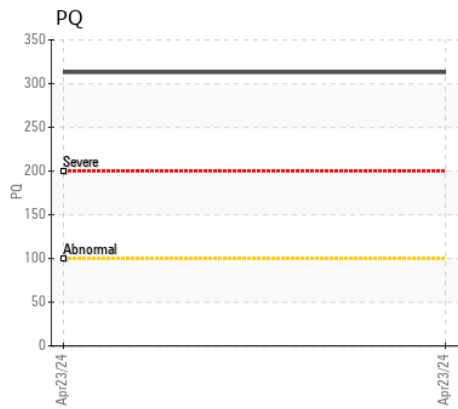
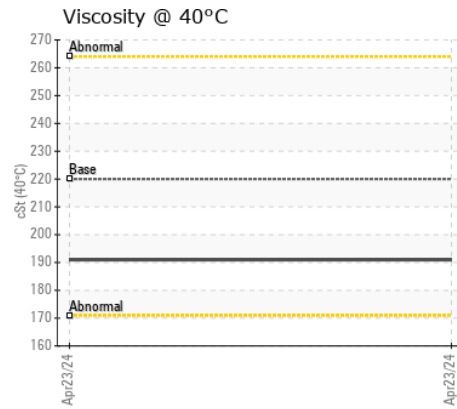
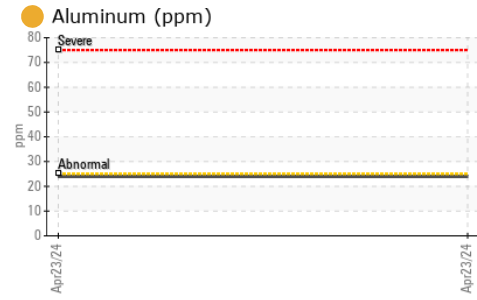
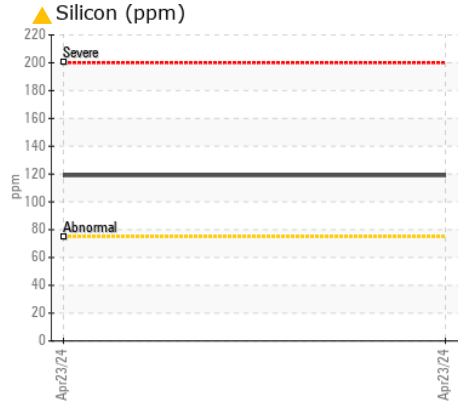
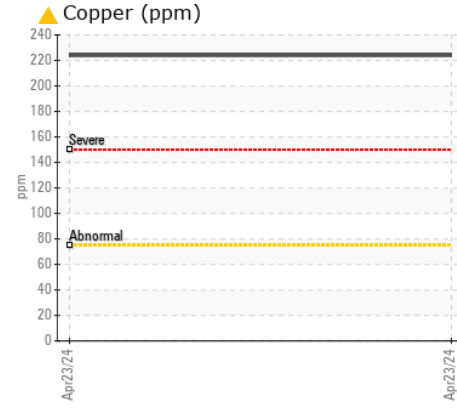
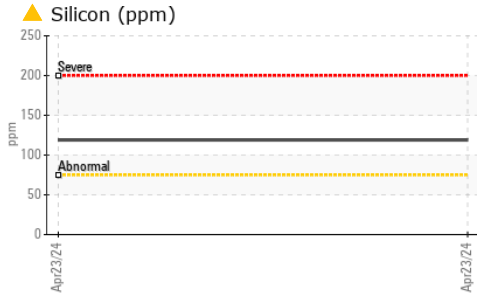
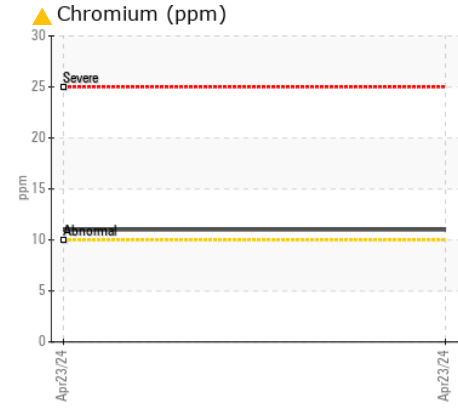
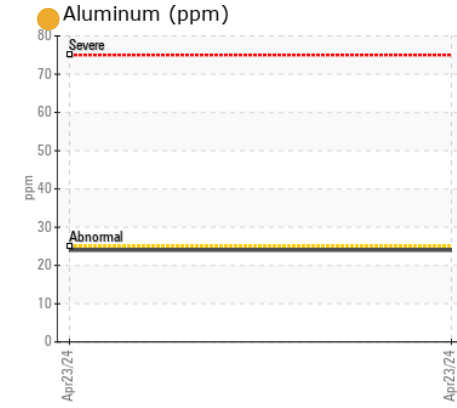
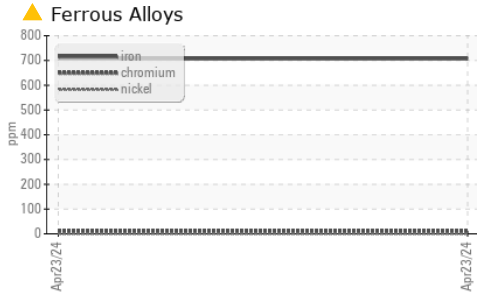
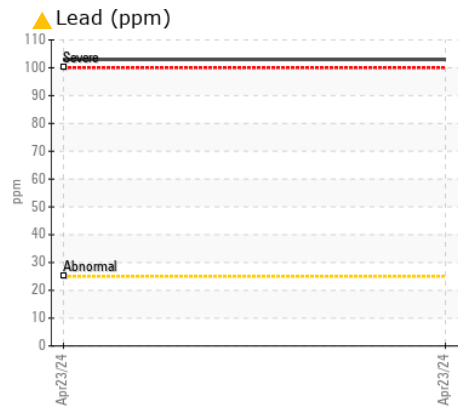
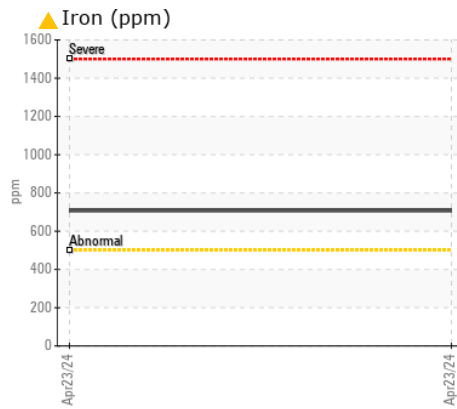
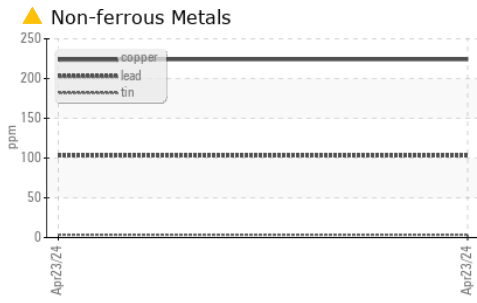
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0890765	---	---
Sample Date		Client Info		23 Apr 2024	---	---
Machine Age	hrs	Client Info		1484	---	---
Oil Age	hrs	Client Info		484	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

PQ		ASTM D8184*		313	---	---
Iron	ppm	ASTM D5185(m)	>500	▲ 707	---	---
Chromium	ppm	ASTM D5185(m)	>10	▲ 11	---	---
Nickel	ppm	ASTM D5185(m)	>10	<1	---	---
Titanium	ppm	ASTM D5185(m)		2	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	● 24	---	---
Lead	ppm	ASTM D5185(m)	>25	▲ 103	---	---
Copper	ppm	ASTM D5185(m)	>75	▲ 224	---	---
Tin	ppm	ASTM D5185(m)	>10	4	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

Silicon	ppm	ASTM D5185(m)	>75	▲ 119	---	---
Potassium	ppm	ASTM D5185(m)	>20	9	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
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	---	---

Sodium	ppm	ASTM D5185(m)		11	---	---
Boron	ppm	ASTM D5185(m)	50	9	---	---
Barium	ppm	ASTM D5185(m)	15	34	---	---
Molybdenum	ppm	ASTM D5185(m)	15	0	---	---
Manganese	ppm	ASTM D5185(m)		6	---	---
Magnesium	ppm	ASTM D5185(m)	50	10	---	---
Calcium	ppm	ASTM D5185(m)	50	40	---	---
Phosphorus	ppm	ASTM D5185(m)	350	188	---	---
Zinc	ppm	ASTM D5185(m)	100	23	---	---
Sulfur	ppm	ASTM D5185(m)	12500	4073	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	191	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890765 **Received** : 26 Apr 2024
Lab Number : 02631701 **Tested** : 26 Apr 2024
Unique Number : 5772854 **Diagnosed** : 29 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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