



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
091539
Component
Front Right Planetary
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

We advise that you check for visible metal particles in the oil. 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

Copper, nickel and lead and tin ppm levels are severe. PQ PQ levels are severe. Chromium, iron and aluminum ppm levels are abnormal. Moderate concentration of visible metal present. Gear wear is indicated. Thrust washer and/or bearing/bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

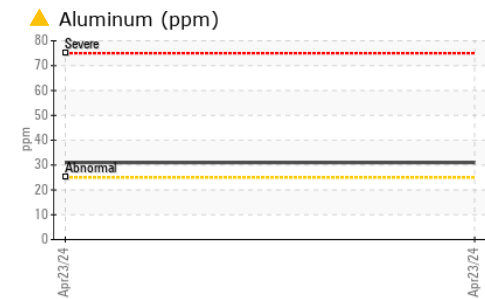
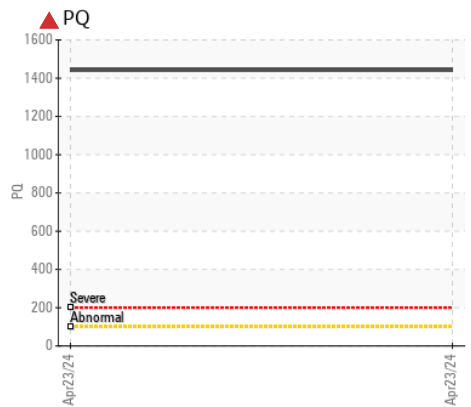
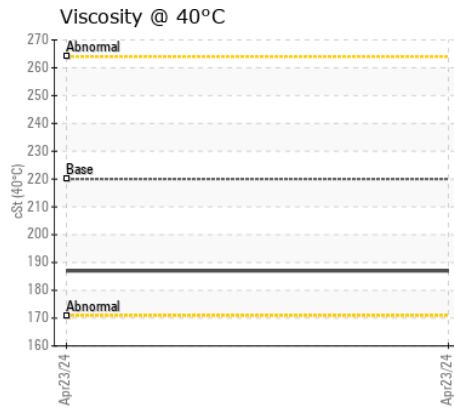
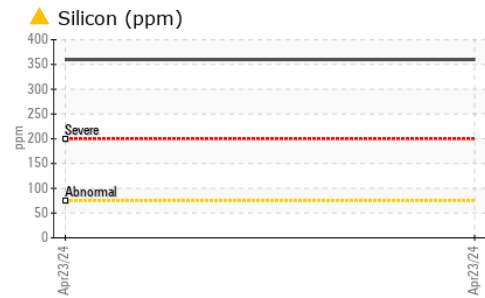
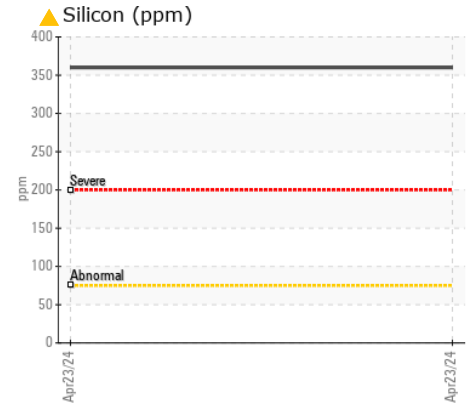
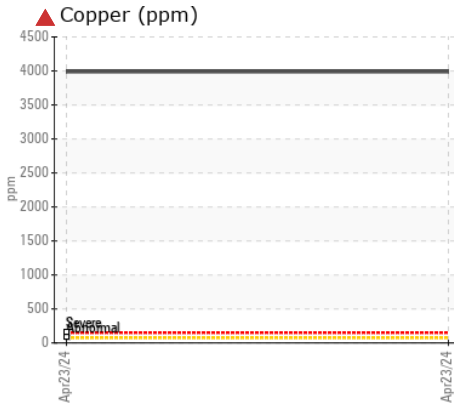
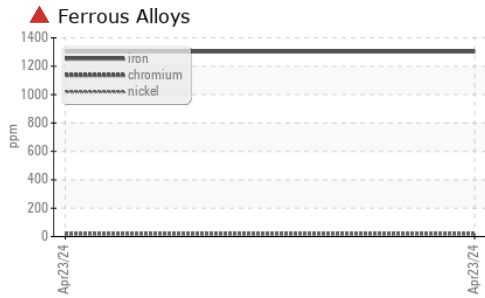
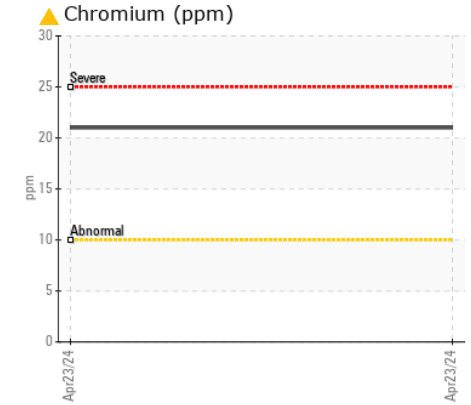
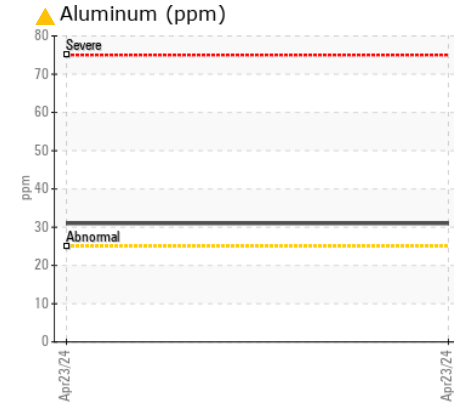
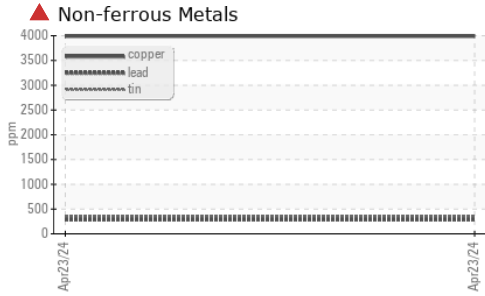
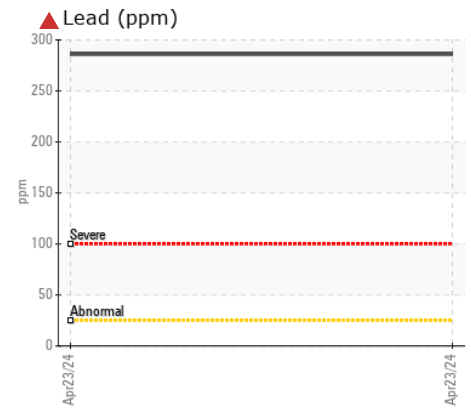
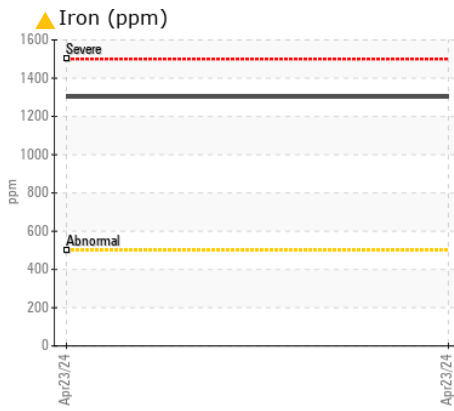
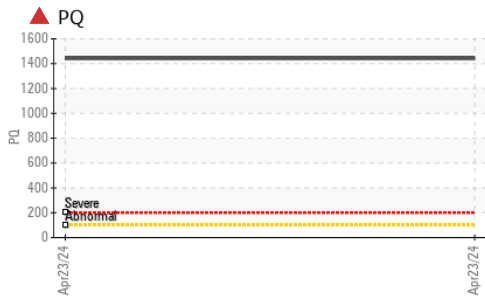
CONTAMINATION

There is a moderate concentration of dirt present in the oil. 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		WC0890764	---	---
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				SEVERE	---	---
PQ		ASTM D8184*		▲ 1442	---	---
Iron	ppm	ASTM D5185(m)	>500	▲ 1302	---	---
Chromium	ppm	ASTM D5185(m)	>10	▲ 21	---	---
Nickel	ppm	ASTM D5185(m)	>10	▲ 26	---	---
Titanium	ppm	ASTM D5185(m)		4	---	---
Silver	ppm	ASTM D5185(m)		<1	---	---
Aluminum	ppm	ASTM D5185(m)	>25	▲ 31	---	---
Lead	ppm	ASTM D5185(m)	>25	▲ 286	---	---
Copper	ppm	ASTM D5185(m)	>75	▲ 3989	---	---
Tin	ppm	ASTM D5185(m)	>10	▲ 355	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	▲ MODER	---	---
Silicon	ppm	ASTM D5185(m)	>75	▲ 360	---	---
Potassium	ppm	ASTM D5185(m)	>20	9	---	---
Water		WC Method	>0.2	NEG	---	---
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	---	---
Sodium	ppm	ASTM D5185(m)		9	---	---
Boron	ppm	ASTM D5185(m)	50	15	---	---
Barium	ppm	ASTM D5185(m)	15	31	---	---
Molybdenum	ppm	ASTM D5185(m)	15	<1	---	---
Manganese	ppm	ASTM D5185(m)		14	---	---
Magnesium	ppm	ASTM D5185(m)	50	23	---	---
Calcium	ppm	ASTM D5185(m)	50	89	---	---
Phosphorus	ppm	ASTM D5185(m)	350	150	---	---
Zinc	ppm	ASTM D5185(m)	100	143	---	---
Sulfur	ppm	ASTM D5185(m)	12500	3783	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	187	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890764 **Received** : 26 Apr 2024
Lab Number : 02631702 **Tested** : 30 Apr 2024
Unique Number : 5772855 **Diagnosed** : 30 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PQQ)

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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.