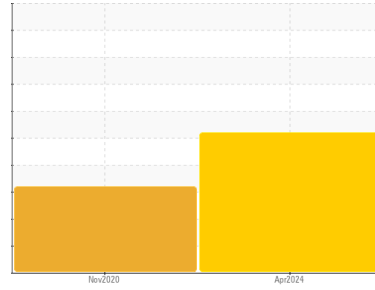




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
T001275 (S/N 17-M-10-2093)

Component
Gearbox
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.

Wear

PQ levels are abnormal. Iron ppm levels are abnormal. Aluminum ppm levels are noted. 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. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0909995	WC0507107	---
Sample Date	Client Info		08 Apr 2024	16 Nov 2020	---
Machine Age	hrs	Client Info	7355	3230	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	Not Changd	---
Sample Status			ABNORMAL	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*		▲ 754	▲ 1246	---
Iron	ppm	ASTM D5185(m) >200	▲ 1722	▲ 1697	---
Chromium	ppm	ASTM D5185(m) >15	13	13	---
Nickel	ppm	ASTM D5185(m) >15	7	6	---
Titanium	ppm	ASTM D5185(m)	3	3	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Aluminum	ppm	ASTM D5185(m) >25	● 45	11	---
Lead	ppm	ASTM D5185(m) >100	0	0	---
Copper	ppm	ASTM D5185(m) >200	3	2	---
Tin	ppm	ASTM D5185(m) >25	0	0	---
Antimony	ppm	ASTM D5185(m) >5	0	<1	---
Vanadium	ppm	ASTM D5185(m)	0	<1	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 400	20	30	---
Barium	ppm	ASTM D5185(m) 200	0	0	---
Molybdenum	ppm	ASTM D5185(m) 12	2	4	---
Manganese	ppm	ASTM D5185(m)	18	18	---
Magnesium	ppm	ASTM D5185(m) 12	8	5	---
Calcium	ppm	ASTM D5185(m) 150	54	79	---
Phosphorus	ppm	ASTM D5185(m) 1650	466	487	---
Zinc	ppm	ASTM D5185(m) 125	157	120	---
Sulfur	ppm	ASTM D5185(m) 22500	11906	13654	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

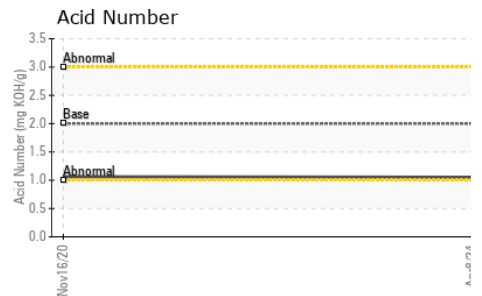
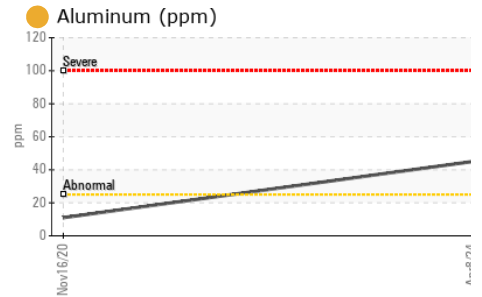
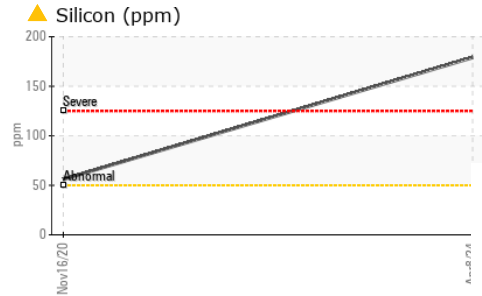
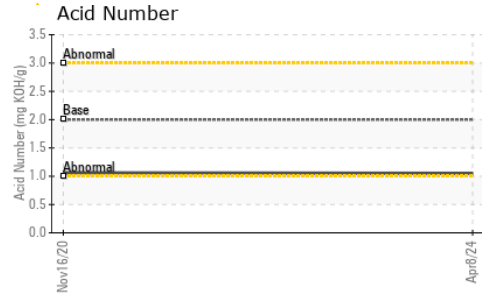
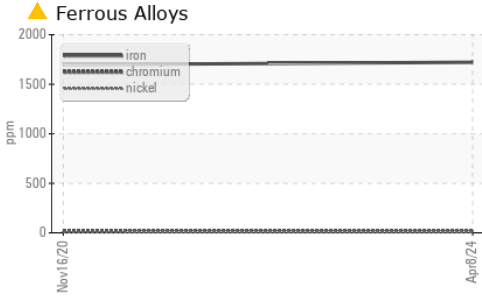
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	▲ 179	56	---
Sodium	ppm	ASTM D5185(m)	7	1	---
Potassium	ppm	ASTM D5185(m) >20	15	3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 2.00	1.05	1.06	---



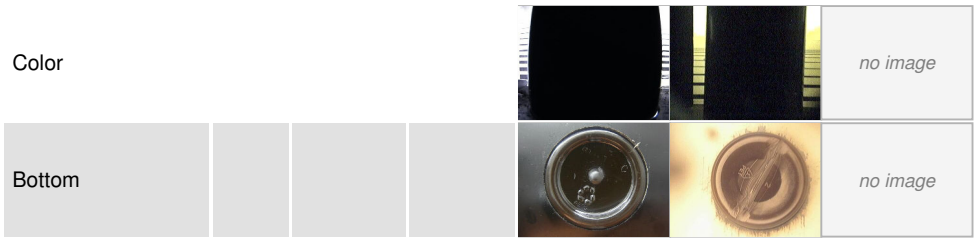
OIL ANALYSIS REPORT



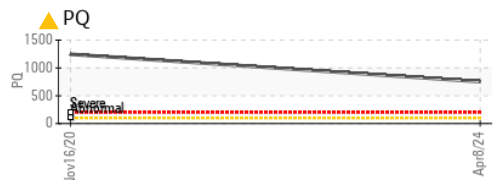
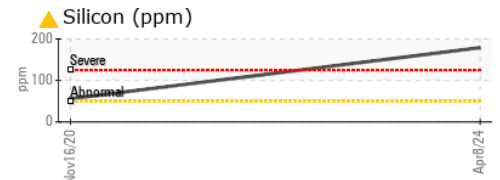
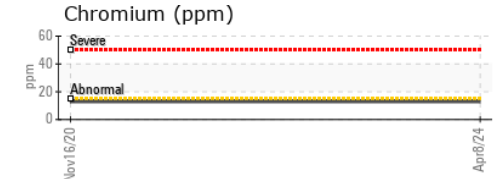
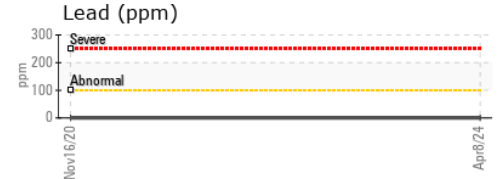
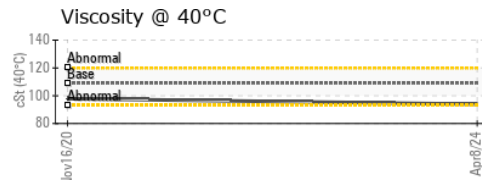
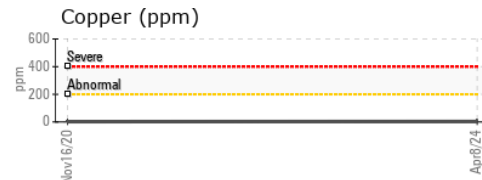
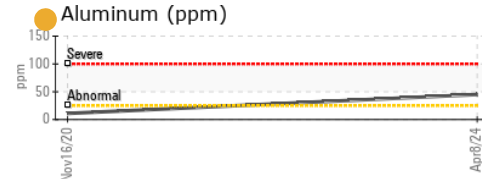
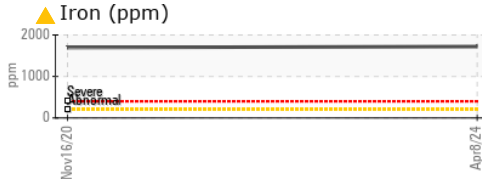
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	109	93.9	97.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0909995 **Received** : 10 Apr 2024
Lab Number : 02627943 **Tested** : 11 Apr 2024
Unique Number : 5761075 **Diagnosed** : 11 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: PQ, TAN Man)

RWF Industries
 873 Devonshire Ave.
 Woodstock, ON
 CA N4S 8Z4
 Contact: Tami Arnold
 tamia@rwfbron.com

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.

T:
 F: (519)421-0028