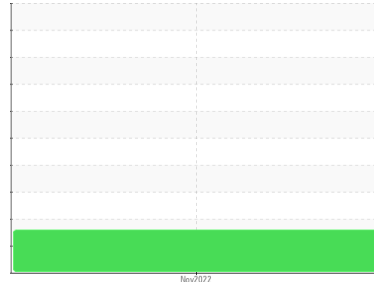




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
10168
 Component
Rear Axle
 Fluid
SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Copper and iron ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. 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	WC0691927	---	---
Sample Date	Client Info	22 Nov 2022	---	---
Machine Age	hrs	Client Info	10260	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	268	---	---
Iron	ppm	ASTM D5185(m) >500	▲ 857	---
Chromium	ppm	ASTM D5185(m) >10	4	---
Nickel	ppm	ASTM D5185(m) >10	<1	---
Titanium	ppm	ASTM D5185(m)	<1	---
Silver	ppm	ASTM D5185(m)	2	---
Aluminum	ppm	ASTM D5185(m) >25	3	---
Lead	ppm	ASTM D5185(m) >25	13	---
Copper	ppm	ASTM D5185(m) >50	▲ 518	---
Tin	ppm	ASTM D5185(m) >10	3	---
Antimony	ppm	ASTM D5185(m) >5	<1	---
Vanadium	ppm	ASTM D5185(m)	0	---
Beryllium	ppm	ASTM D5185(m)	0	---
Cadmium	ppm	ASTM D5185(m)	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 200	105	---
Barium	ppm	ASTM D5185(m) 0	<1	---
Molybdenum	ppm	ASTM D5185(m) 0	5	---
Manganese	ppm	ASTM D5185(m)	7	---
Magnesium	ppm	ASTM D5185(m) 0	13	---
Calcium	ppm	ASTM D5185(m) 20	3755	---
Phosphorus	ppm	ASTM D5185(m) 1000	1354	---
Zinc	ppm	ASTM D5185(m) 20	1282	---
Sulfur	ppm	ASTM D5185(m) 22000	5160	---
Lithium	ppm	ASTM D5185(m)	<1	---

CONTAMINANTS

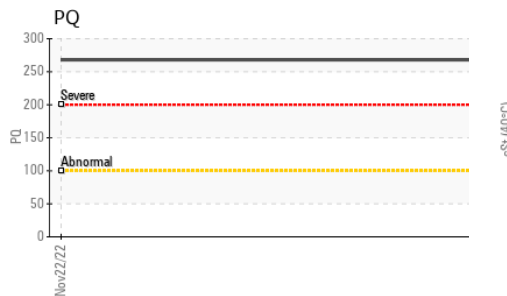
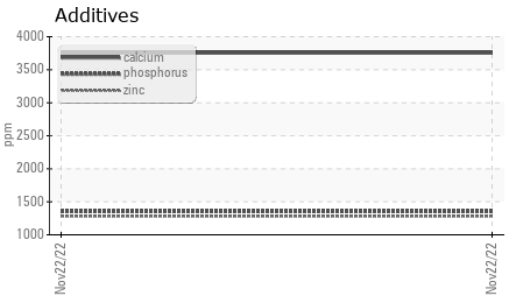
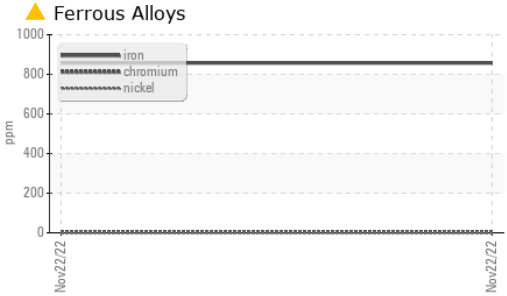
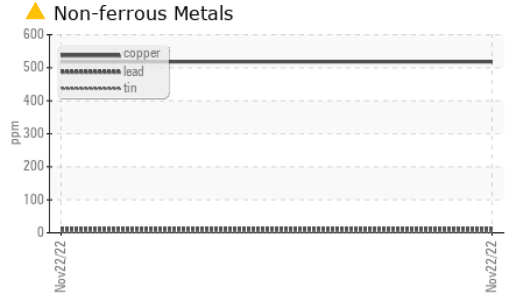
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	20	---
Sodium	ppm	ASTM D5185(m) >50	8	---
Potassium	ppm	ASTM D5185(m) >20	<1	---

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



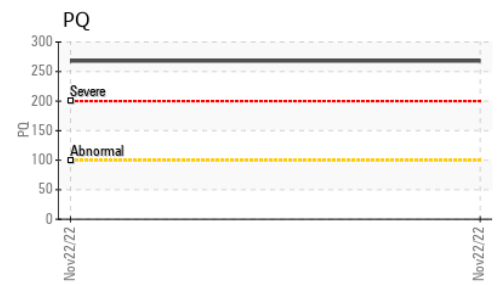
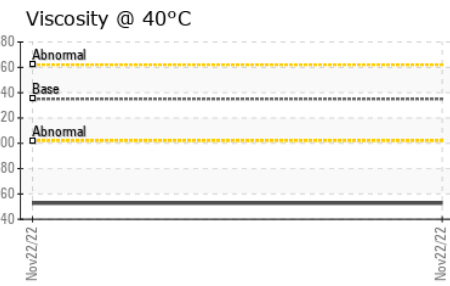
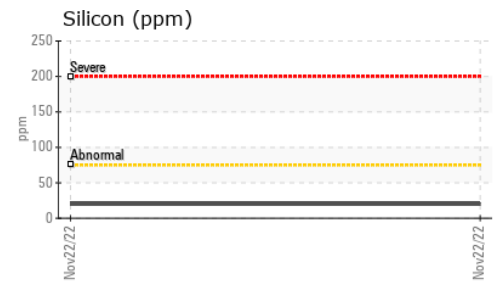
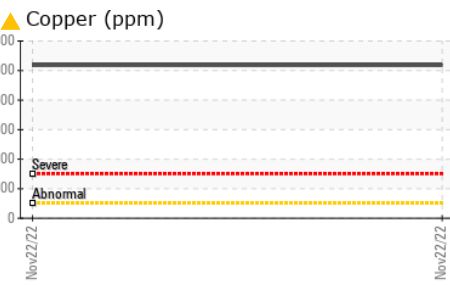
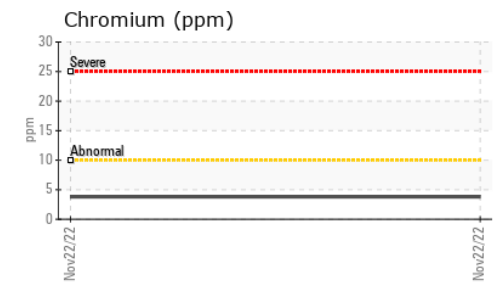
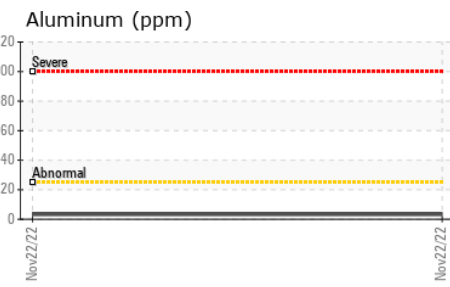
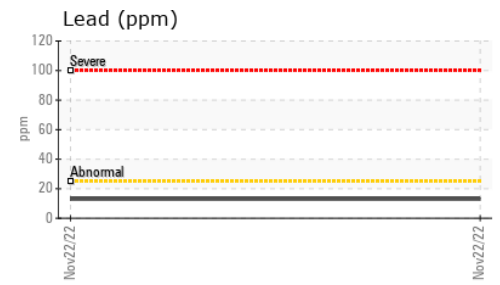
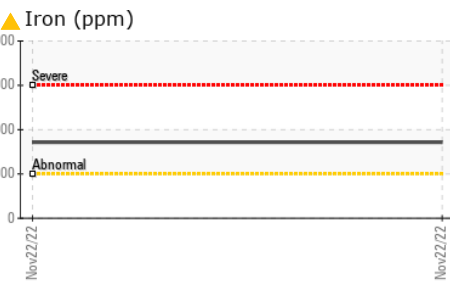
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	135	52.7	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0691927 **Received** : 30 Nov 2022
Lab Number : 02525849 **Diagnosed** : 01 Dec 2022
Unique Number : 5498847 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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 Guelph, ON
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 F: (519)837-2055

*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.*