OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id
10168
Component
Front 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		**WC0691928**	---	---
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*		**256**	---	---
Iron	ppm	ASTM D5185(m)	>500	▲ **826**	---	---
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)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>25	**3**	---	---
Lead	ppm	ASTM D5185(m)	>25	**13**	---	---
Copper	ppm	ASTM D5185(m)	>50	▲ **511**	---	---
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	**14**	---	---
Calcium	ppm	ASTM D5185(m)	20	**3645**	---	---
Phosphorus	ppm	ASTM D5185(m)	1000	**1354**	---	---
Zinc	ppm	ASTM D5185(m)	20	**1256**	---	---
Sulfur	ppm	ASTM D5185(m)	22000	**5166**	---	---
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	**VLITE**	---	---
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**	---	---

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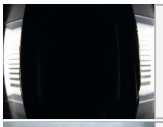
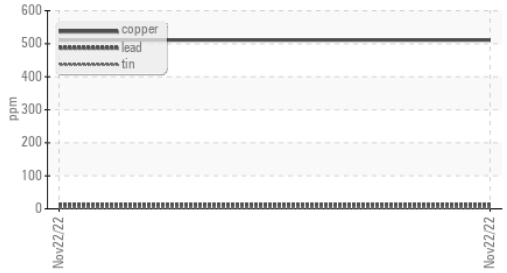
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	135	**52.6**	---	---

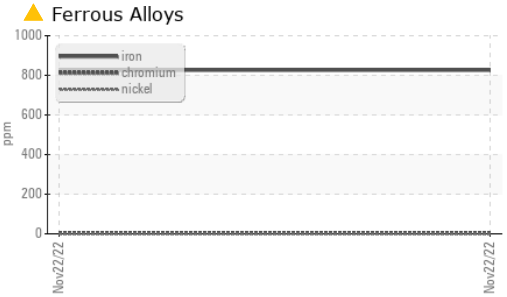
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

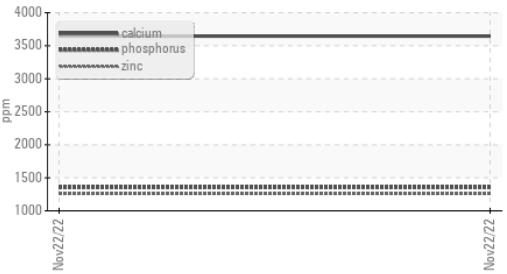
Non-ferrous Metals



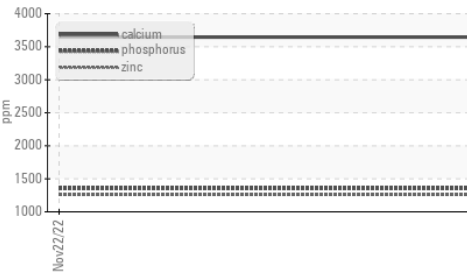
Ferrous Alloys



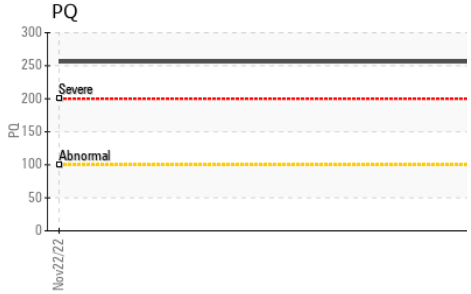
Additives



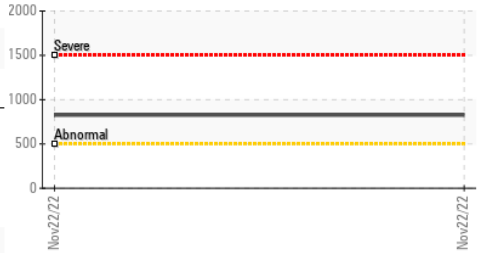
Additives



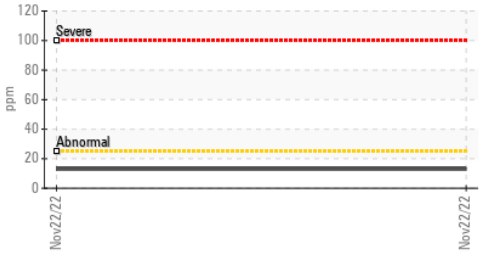
PQ



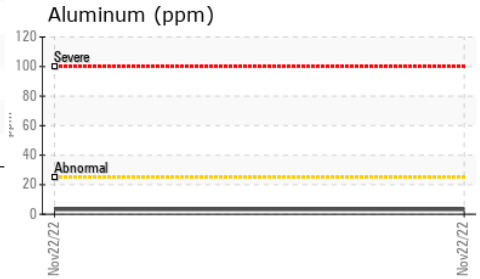
Iron (ppm)



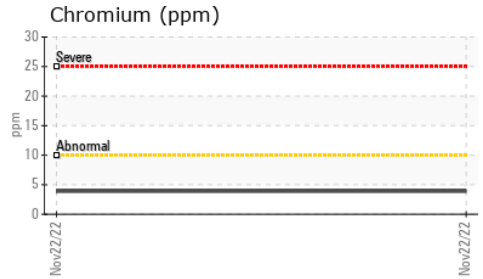
Lead (ppm)



Aluminum (ppm)



Chromium (ppm)

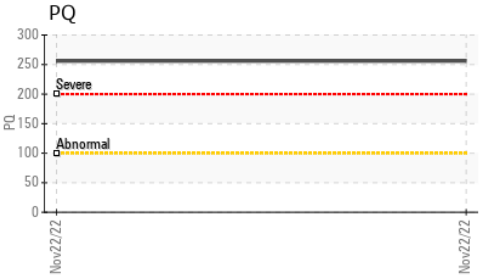


Copper (ppm)

Silicon (ppm)

Viscosity @ 40°C

PQ



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0691928 **Received** : 30 Nov 2022
Lab Number : 02525848 **Diagnosed** : 01 Dec 2022
Unique Number : 5498846 **Diagnostician** : 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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