

Machine Id
NO UNIT PC0075079
Component
Front Right Wheel Hub
Fluid
NOT GIVEN (--- LTR)



DIAGNOSIS

▲ Recommendation
We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

▲ Wear
Light concentration of visible metal present. Gear wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
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	PC0075079	---	---
Sample Date	Client Info	18 Oct 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>500	357	---	---
Chromium ppm ASTM D5185(m)	>8	4	---	---
Nickel ppm ASTM D5185(m)	>5	2	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		<1	---	---
Aluminum ppm ASTM D5185(m)	>5	4	---	---
Lead ppm ASTM D5185(m)	>5	1	---	---
Copper ppm ASTM D5185(m)	>50	33	---	---
Tin ppm ASTM D5185(m)		0	---	---
Antimony ppm ASTM D5185(m)	>5	0	---	---
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)		31	---	---
Barium ppm ASTM D5185(m)		<1	---	---
Molybdenum ppm ASTM D5185(m)		1	---	---
Manganese ppm ASTM D5185(m)		4	---	---
Magnesium ppm ASTM D5185(m)		21	---	---
Calcium ppm ASTM D5185(m)		1284	---	---
Phosphorus ppm ASTM D5185(m)		796	---	---
Zinc ppm ASTM D5185(m)		544	---	---
Sulfur ppm ASTM D5185(m)		13393	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

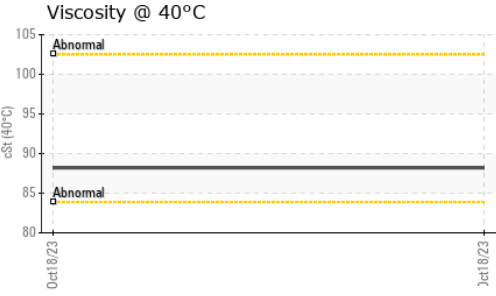
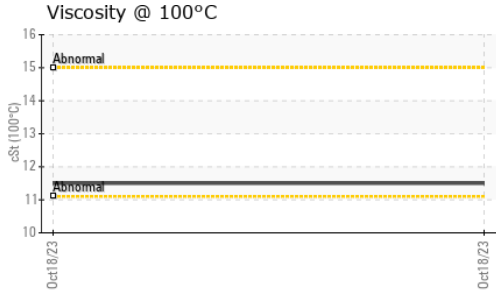
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	16	---	---
Sodium ppm ASTM D5185(m)		2	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar Visual*	NONE	▲ LTMOD	---	---
Yellow Metal scalar Visual*	NONE	VLITE	---	---
Precipitate scalar Visual*	NONE	NONE	---	---
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	---	---
Free Water scalar Visual*		NEG	---	---

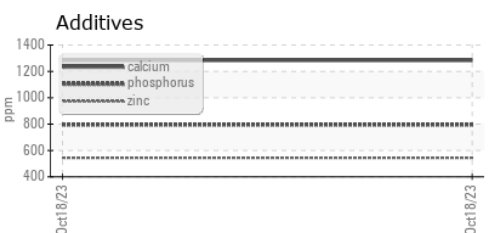
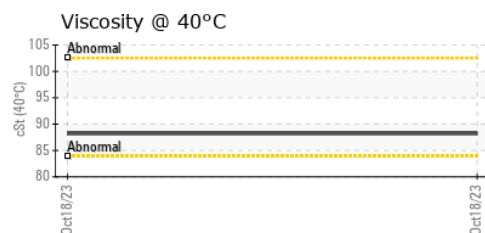
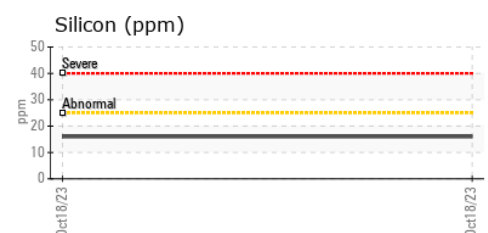
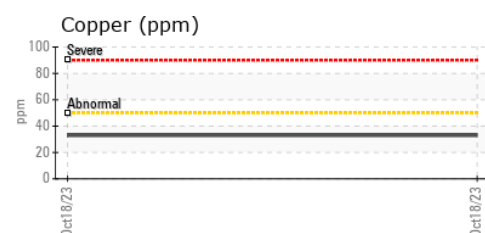
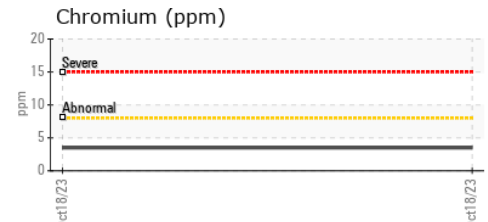
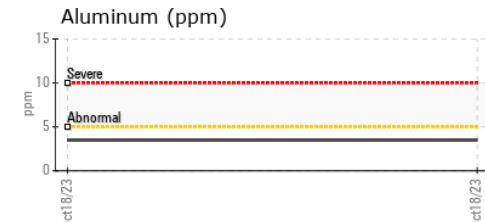
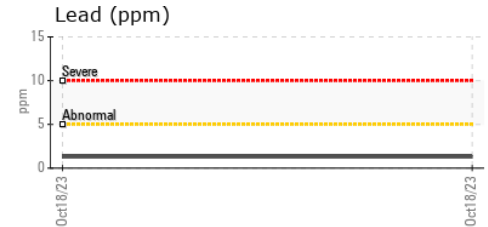
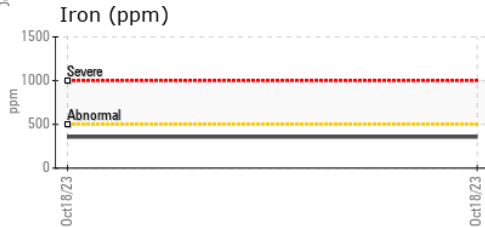
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		88.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		11.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		119	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Lakeshore Gold Timmins West**
Sample No. : PC0075079 **Received** : 19 Oct 2023
Lab Number : 02590358 **Diagnosed** : 22 Oct 2023
Unique Number : 5659424 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, VI) Contact: Dale Arseneau
Timmins, ON
CA
darseneau@ca.panamericansilver.com
T: (705)269-4344
F:

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.