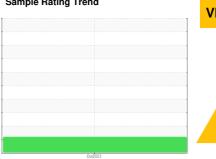


OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



NO UNIT 02590352

Component

Rear Right Wheel Hub

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

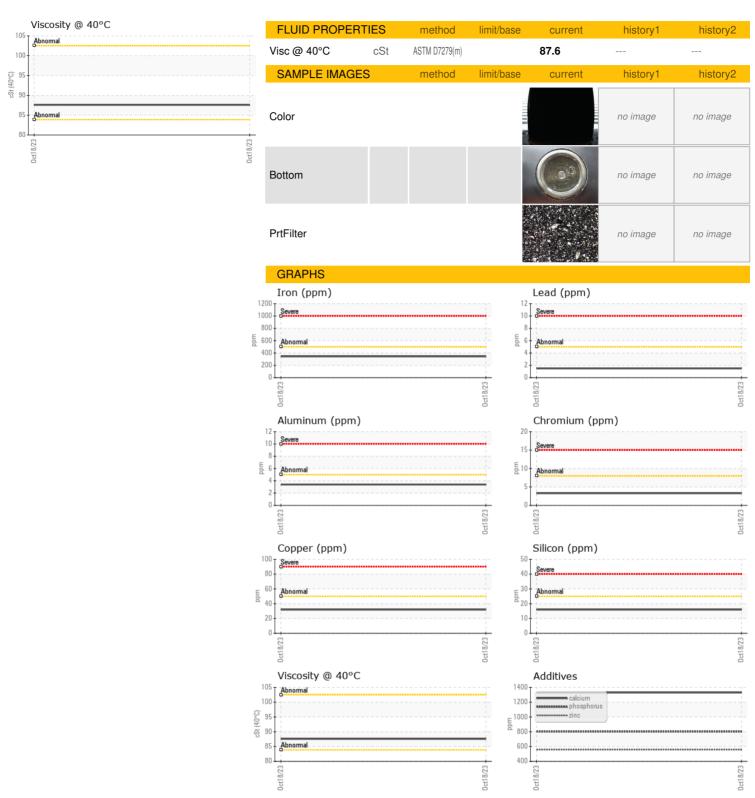
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				Oct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
				WC	otory .	
Sample Number		Client Info		18 Oct 2023		
Sample Date	bro					
Machine Age Oil Age	hrs hrs	Client Info		0		
Oil Changed	1115	Client Info		N/A		
Sample Status		Ciletit IIIIO		ABNORMAL		
•				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	345		
Chromium	ppm	ASTM D5185(m)	>8	3		
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	3		
Lead	ppm	ASTM D5185(m)	>5	2		
Copper	ppm	ASTM D5185(m)	>50	32		
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)		32		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		1		
Manganese	ppm	ASTM D5185(m)		4		
Magnesium	ppm	ASTM D5185(m)		20		
Calcium	ppm	ASTM D5185(m)		1330		
Phosphorus	ppm	ASTM D5185(m)		803		
Zinc	ppm	ASTM D5185(m)		558		
Sulfur	ppm	ASTM D5185(m)		13013		
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)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
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		
1.21.02) Pay: 1	Journ	· Iouui		Contact/Loc	ation, Dala Ara	DOOL LAKTIM

Contact/Location: Dale Arseneau - LAKTIM



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC

: 02590352 : 5659418

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 19 Oct 2023

Diagnosed : 22 Oct 2023

Diagnostician : Kevin Marson

Lakeshore Gold Timmins West Timmins, ON

CA **Test Package**: MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch) Contact: Dale Arseneau To discuss this sample report, contact Customer Service at 1-800-268-2131. darseneau@ca.panamericansilver.com

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: (705)269-4344