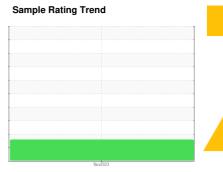


OIL ANALYSIS REPORT



Component
Front Right Final Drive

GEAR OIL SAE 80W90 (--- GAL)





DIAGNOSIS

Recommendation

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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

Wear

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

Contamination

There is no indication of any contamination in the oil.

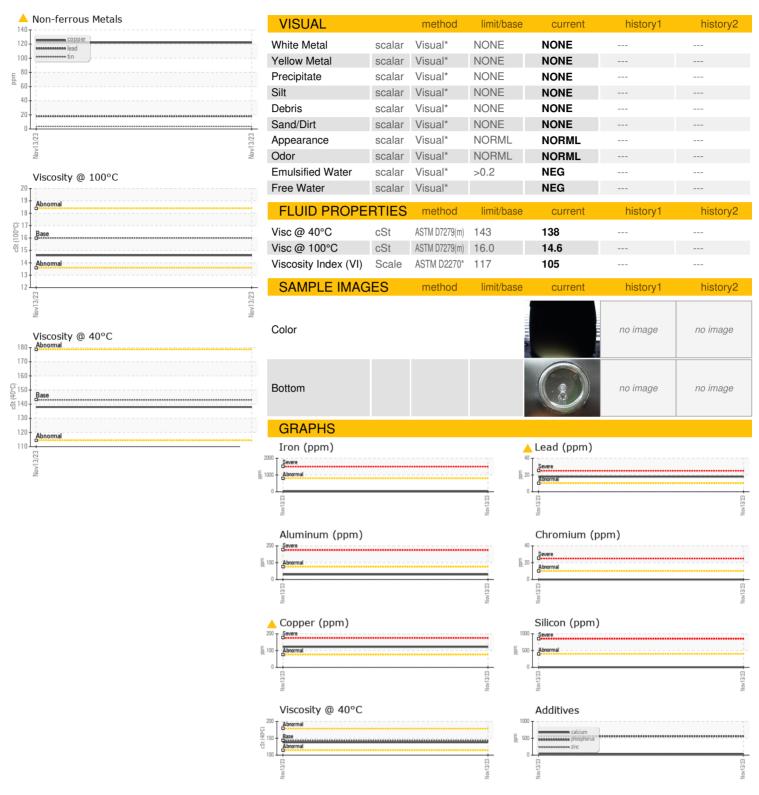
Fluid Condition

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

(GAL)				Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0075015		
Sample Date		Client Info		13 Nov 2023		
Machine Age	hrs	Client Info		3423		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINAT	TON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>800	9		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>15	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>75	30		
Lead	ppm	ASTM D5185(m)	>10	<u> </u>		
Copper	ppm	ASTM D5185(m)	>75	<u> </u>		
Tin	ppm	ASTM D5185(m)	>8	4		
Antimony	ppm	ASTM D5185(m)	>50	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)	400	<1		
Barium	ppm	ASTM D5185(m)	200	2		
Molybdenum	ppm	ASTM D5185(m)	12	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	12	<1		
Calcium	ppm	ASTM D5185(m)	150	22		
Phosphorus	ppm	ASTM D5185(m)	1650	561		
Zinc	ppm	ASTM D5185(m)	125	6		
Sulfur	ppm	ASTM D5185(m)	22500	21577		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>400	<1		
Sodium	ppm	ASTM D5185(m)	>170	<1		
Potassium	ppm	ASTM D5185(m)	>20	0		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

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

: PC0075015

: 02601294 : 5694379

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 07 Dec 2023 Diagnostician : Bill Quesnel

Test Package : MOB 1 (Additional Tests: KV100, VI) 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.

: 06 Dec 2023

Lakeshore Gold Timmins West

Timmins, ON CA

Contact: Dale Arseneau darseneau@ca.panamericansilver.com

T: (705)269-4344

Report Id: LAKTIM [WCAMIS] 02601294 (Generated: 12/07/2023 11:33:29) Rev: 1