

OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Component **Rear Right Final Drive**

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

A Wear

Titanium ppm levels are abnormal. Aluminum ppm levels are noted.

Contamination

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

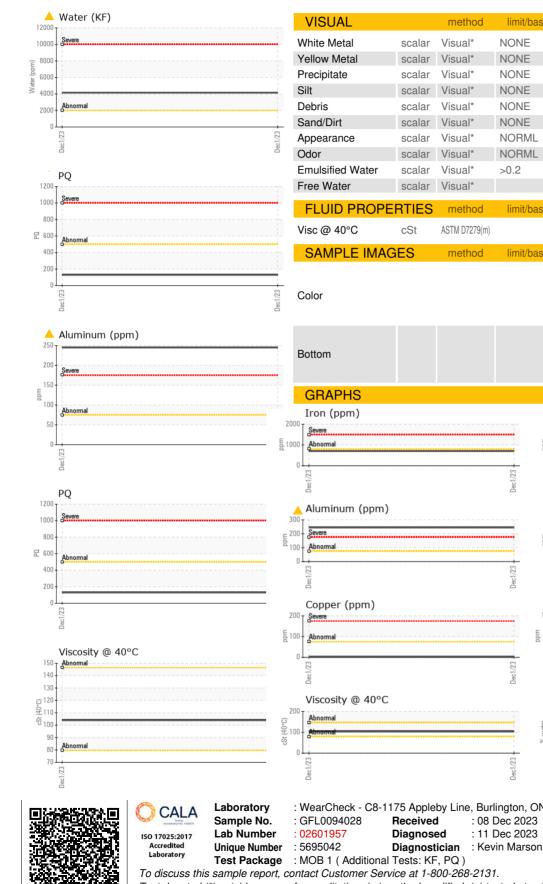
Fluid Condition

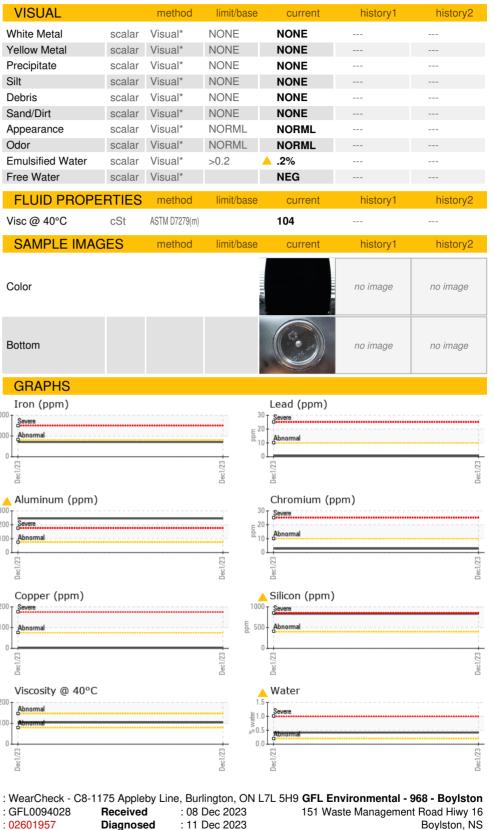
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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				Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094028		
Sample Date		Client Info		01 Dec 2023		
Machine Age	kms	Client Info		6342		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>500	130		
Iron	ppm	ASTM D5185(m)	>800	708		
Chromium	ppm	ASTM D5185(m)	>10	3		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>15	<u> </u>		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>75	<u> </u>		
Lead	ppm	ASTM D5185(m)	>10	1		
Copper	ppm	ASTM D5185(m)	>75	2		
Tin	ppm	ASTM D5185(m)	>8	0		
Antimony	ppm	ASTM D5185(m)	>50	0		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		4		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		11		
Magnesium	ppm	ASTM D5185(m)		45		
Calcium	ppm	ASTM D5185(m)		2201		
Phosphorus	ppm	ASTM D5185(m)		782		
Zinc	ppm	ASTM D5185(m)		1035		
Sulfur	ppm	ASTM D5185(m)		8386		
Lithium	ppm	ASTM D5185(m)		<1		
		and the state	limit/base	current	history1	history2
CONTAMINAN	ITS	method	initia base			
	ITS ppm	ASTM D5185(m)	>400	a 832		
Silicon				▲ 832 41		
Silicon Sodium	ppm	ASTM D5185(m)				
CONTAMINAN Silicon Sodium Potassium Water	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>400	41		



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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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Contact/Location: Bruce Avery - GFL968 Page 2 of 2

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Contact: Bruce Avery

bruce.avery@gflenv.com