

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id WL0415 Component Rear Left Wheel Hub Fluid GEAR OIL LS 80W90 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. 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 LS 80W90. Please confirm.

🛑 Wear

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

Contamination

There is no indication of any contamination in the oil.

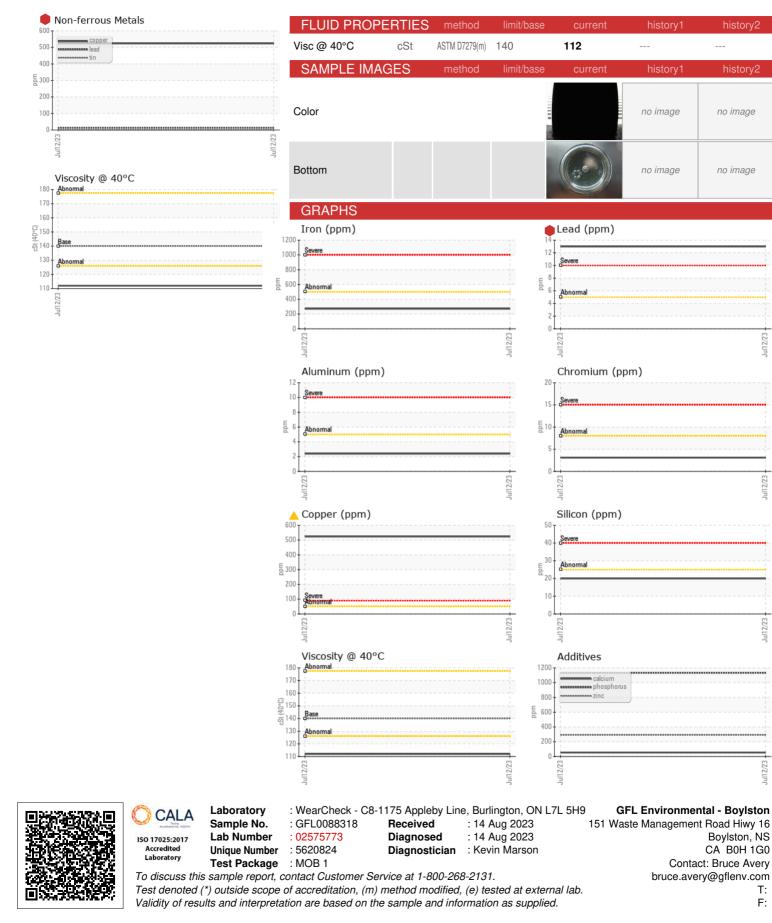
Fluid Condition

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

SAMPLE INFORM	1AT <u>ION</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088318		
Sample Date		Client Info		12 Jul 2023		
Machine Age	kms	Client Info		5138		
Oil Age	kms	Client Info		1000		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	272		
Chromium	ppm	ASTM D5185(m)	>8	3		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)	20	۰ <1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	2		
Lead		ASTM D5185(m)	>5	1 3		
	ppm	ASTM D5185(m)	>5 >50	13 524		
Copper Tin	ppm	ASTM D5185(m) ASTM D5185(m)	>00	▲ 524		
	ppm	ASTM D5185(m) ASTM D5185(m)	· F	0		
Antimony	ppm	(/	>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)	150	93		
Barium	ppm	ASTM D5185(m)		3		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		4		
Magnesium	ppm	ASTM D5185(m)	10	<1		
Calcium	ppm	ASTM D5185(m)	70	54		
Phosphorus	ppm	ASTM D5185(m)	2000	1133		
Zinc	ppm	ASTM D5185(m)	50	292		
Sulfur	ppm	ASTM D5185(m)	20000	26672		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	20		
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	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
	scalar	Visual*	NORML	NORML		
Odor						
Odor Emulsified Water				NEG		
Odor Emulsified Water Free Water	scalar scalar	Visual* Visual*	>0.2	NEG NEG		



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