

## WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id **420097 - SW4006** Component **1 Differential** Fluid **GEAR OIL SAE 80W90 (--- GAL)**

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle )

V	VE	ΞA	R

The nickel level is abnormal. All other component wear rates are normal.

## CONTAMINATION

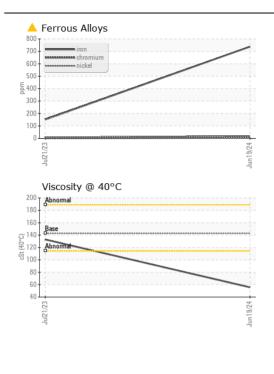
There is no indication of any contamination in the oil.

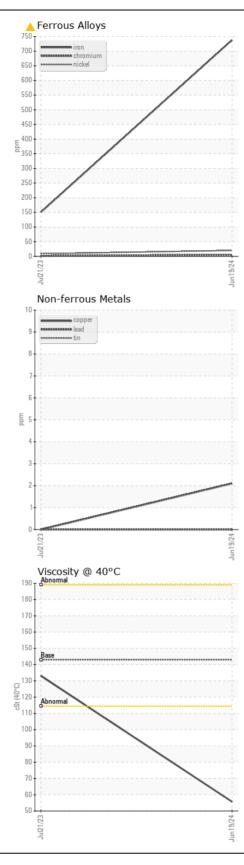
## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0123520	GFL0089412	
Sample Date		Client Info		19 Jun 2024	21 Jul 2023	
Machine Age	mls	Client Info		231528	194100	
Oil Age	mls	Client Info		231528	0	
Filter Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Filter Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	NORMAL	
Iron	nnm	ASTM D5185m	>1200	738	151	
Chromium	ppm	ASTM D5185m	>8	5	1	
Nickel	ppm	ASTM D5185m	>20	5 <u>20</u>	9	
Titanium	ppm		>20	-		
	ppm	ASTM D5185m ASTM D5185m	>4	<1	<1	
Silver	ppm		00	0	0	
Aluminum	ppm	ASTM D5185m	>30	9	6	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	2	0	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>230	106	134	
Potassium	ppm	ASTM D5185m	>20	4	<1	
Water		WC Method	>.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris					NONE	
	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE	-		
Sand/Dirt Appearance				NONE	NONE	  
	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NONE NORML	NONE NONE NORML	
Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NORML NORML >.2	NONE NORML NORML NEG	NONE NORML NORML NEG	
Appearance Odor	scalar scalar scalar scalar ppm	*Visual *Visual *Visual	NONE NORML NORML	NONE NONE NORML NORML	NONE NORML NORML NEG 1	  
Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual ASTM D5185m	NORML NORML >.2 >170	NONE NORML NORML NEG 3	NONE NORML NORML NEG	  
Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML >.2 >170 400	NONE NORML NORML NEG 3 96	NONE NORML NORML NEG 1 92	
Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >.2 >170 400 200	NONE NORML NORML NEG 3 96 0	NONE NORML NORML NEG 1 92 0	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >.2 >170 400 200	NONE NORML NORML NEG 3 96 0 <1	NONE NORML NORML NEG 1 92 0 <1	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >.2 >170 400 200 12	NONE NORML NORML NEG 3 96 0 <1 6	NONE NORML NORML NEG 1 92 0 <1 3	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >.2 >170 400 200 12 12	NONE NORML NORML NEG 3 96 0 <1 6 6	NONE NORML NORML NEG 1 92 0 <1 3 0	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >.2 >170 400 200 12 12 12	NONE NORML NORML NEG 3 96 0 <1 6 6 85	NONE NORML NORML NEG 1 92 0 <1 3 0 <1 3 0 5	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >.2 >170 400 200 12 12 12 12 12 150 1650	NONE NORML NORML NEG 3 96 0 <1 6 6 85 809	NONE NORML NORML NEG 1 92 0 <1 3 0 <1 3 0 5 809	
Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >.2 >170 400 200 12 12 12 150 1650 125	NONE NORML NORML NEG 3 96 0 <1 6 6 85 809 56	NONE NORML NORML NEG 1 92 0 <1 3 0 <1 3 0 5 809 14	

Submitted By: TECHNICIAN ACCOUNT





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 983 - Sugar Land Hauling : 25 Jun 2024 16011 West Belfort Street : 26 Jun 2024 Sugar Land, TX : 27 Jun 2024 - Sean Felton US 77498 Contact: Adrian Martinez adrianmartinez@gflenv.com Т: F:



Unique Number : 11098308 Diagnosed Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Tested

Laboratory

Sample No.

Lab Number : 06220111

: GFL0123520

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