

## Machine Id **427186** Component **2 Differential** Fluid **{not provided} (--- GAL)**

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: 2nd Axle / Tag )

## **WEAR**

Gear wear is indicated.

## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

## FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0123561		
Sample Date		Client Info		22 May 2024		
Machine Age	hrs	Client Info		346360		
Oil Age	hrs	Client Info		346360		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		None		
Sample Status			ABNORMAL			
			500			
Iron	ppm	ASTM D5185m	>500	A 754		
Chromium	ppm	ASTM D5185m	>10	6		
Nickel	ppm	ASTM D5185m	>10	▲ 28		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	. 05	<1		
Aluminum	ppm	ASTM D5185m	>25	<b>8</b> 2		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm		>100	2		
Tin	ppm	ASTM D5185m ASTM D5185m	>10	0		
Vanadium	ppm	*Visual	NONE	<1 NONE		
White Metal Yellow Metal	scalar		NONE	NONE		
renow weta	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>75	<b>2</b> 64		
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	▲ 264 10		
Potassium		ASTM D5185m	>20	10	 	 
Potassium Water	ppm	ASTM D5185m WC Method	>20 >.2	10 NEG	 	 
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >.2 NONE	10 NEG MODER		
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >.2 NONE NONE	10 NEG MODER NONE		
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >.2 NONE NONE NONE	10 NEG MODER NONE NONE		
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NONE NORML	10 NEG MODER NONE NONE NORML	 	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NONE NORML NORML NEG	  	  
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORE NORML NEG 5	   	   
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0	   	   
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0 1		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0 1 12		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0 1 12 7		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0 115 0 1 12 7 308		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0 1 12 7 308 1082		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORE NORML NEG 5 115 0 1 12 7 308 1082 147		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	10 NEG MODER NONE NORML NORML NEG 5 115 0 1 12 7 308 1082		

WEAR

CONTAMINATION

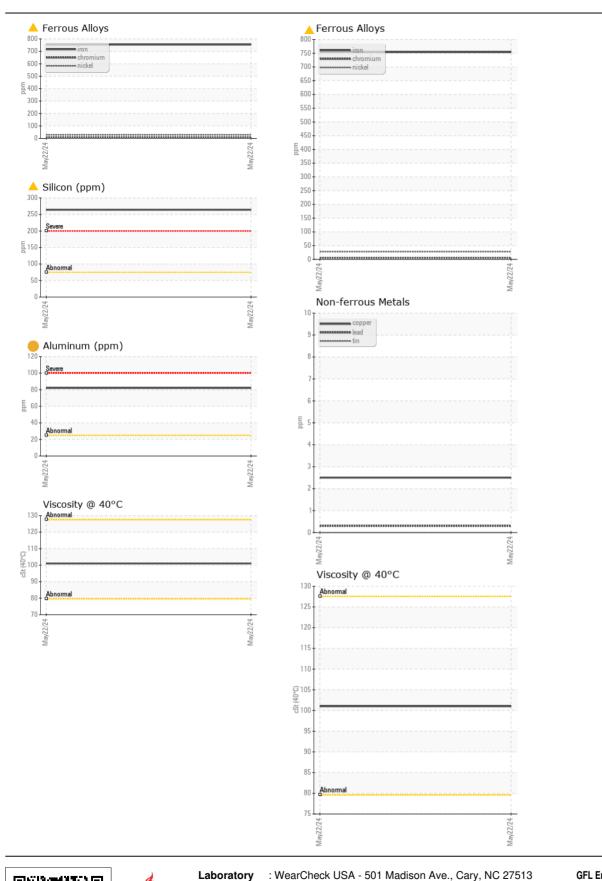
**FLUID CONDITION** 

**ABNORMAL** 

**ABNORMAL** 

NORMAL

Submitted By: TECHNICIAN ACCOUNT



GFL Environmental - 983 - Sugar Land Hauling 16011 West Belfort Street Sugar Land, TX : 30 May 2024 - Don Baldridge US 77498 Contact: TECHNICIAN ACCOUNT wcgfldemo@gmail.com T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Certificate L2367

Sample No.

Lab Number : 06192586

Unique Number : 11049338

Test Package : FLEET

: GFL0123561

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.

Received

Diagnosed

Tested

: 28 May 2024

: 29 May 2024

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2