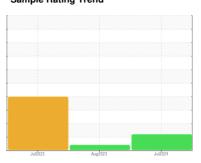


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**WEAR** 



Machine Id 427192 Component

1 Differential

GEAR OIL SAE 80W90 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle / Pusher )

#### Wear

Gear wear is indicated.

#### Contamination

There is no indication of any contamination in the

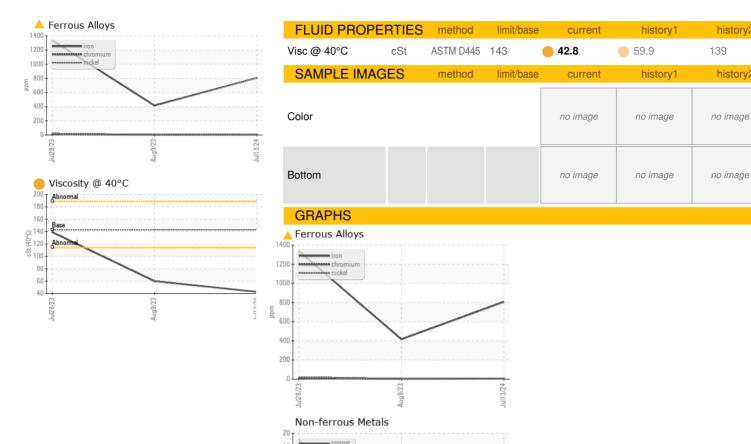
#### Fluid Condition

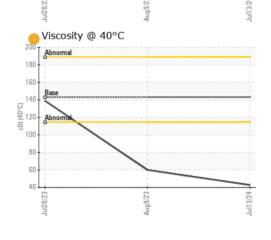
The oil viscosity is lower than normal. Confirm oil type.

OAMBI E INFORM						
SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0128775	GFL0089374	GFL0089435
Sample Date		Client Info		13 Jul 2024	09 Aug 2023	28 Jul 2023
Machine Age	mls	Client Info		355324	331726	329996
Oil Age	mls	Client Info		329996	331726	329996
Oil Changed		Client Info		Not Changd	Oil Added	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<u> </u>	416	<u>▲</u> 1337
Chromium	ppm	ASTM D5185m	>10	5	2	9
Nickel	ppm	ASTM D5185m	>10	4	4	<u>^</u> 22
Titanium	ppm	ASTM D5185m		0	0	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	7	<b>3</b> 0
Lead	ppm	ASTM D5185m	>25	0	<1	1
Copper	ppm	ASTM D5185m	>100	6	4	19
Tin	ppm	ASTM D5185m	>10	4	4	13
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп			Ū		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	5	7	23
Barium	ppm	ASTM D5185m	200	0	0	<1
Molybdenum	ppm	ASTM D5185m	12	1	<1	4
Manganese	ppm	ASTM D5185m		8	4	16
Magnesium	ppm	ASTM D5185m	12	0	0	6
Calcium	ppm	ASTM D5185m	150	19	20	66
Phosphorus	ppm	ASTM D5185m	1650		170	385
Zinc				493	479	303
	ppm	ASTM D5185m	125	493 0	1	37
Sulfur	ppm ppm					
Sulfur CONTAMINAN	ppm	ASTM D5185m	125	0	1	37
	ppm	ASTM D5185m ASTM D5185m	125 22500 limit/base	0 18312	1 20590	37 19496
CONTAMINAN Silicon	ppm TS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	125 22500 limit/base >75	0 18312 current	1 20590 history1	37 19496 history2
CONTAMINAN	ppm TS	ASTM D5185m ASTM D5185m method	125 22500 limit/base	0 18312 current	1 20590 history1 32	37 19496 history2
CONTAMINAN <sup>T</sup> Silicon Sodium	ppm TS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	125 22500 limit/base >75 >170	0 18312 current 66	1 20590 history1 32 0	37 19496 history2 ▲ 146 0
CONTAMINANT Silicon Sodium Potassium	ppm TS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	125 22500 limit/base >75 >170 >20	0 18312 current 66 1	1 20590 history1 32 0 2	37 19496 history2 146 0 6
CONTAMINANT Silicon Sodium Potassium VISUAL	ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	125 22500 limit/base >75 >170 >20 limit/base	0 18312 current 66 1 0	1 20590 history1 32 0 2 history1	37 19496 history2 ▲ 146 0 6 history2
CONTAMINANT Silicon Sodium Potassium  VISUAL White Metal	ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	125 22500 limit/base >75 >170 >20 limit/base NONE	0 18312 current 66 1 0 current NONE	1 20590 history1 32 0 2 history1 NONE	37 19496 history2 ▲ 146 0 6 history2 NONE
CONTAMINANT Silicon Sodium Potassium  VISUAL White Metal Yellow Metal	ppm FS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  method  *Visual	125 22500  limit/base >75 >170 >20  limit/base  NONE NONE	0 18312 current 66 1 0 current NONE	1 20590 history1 32 0 2 history1 NONE NONE	37 19496 history2 ▲ 146 0 6 history2 NONE
CONTAMINANT Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  wethod  *Visual  *Visual  *Visual  *Visual	125 22500  limit/base >75 >170 >20  limit/base NONE NONE NONE NONE	0 18312 current 66 1 0 current NONE NONE NONE NONE	1 20590 history1 32 0 2 history1 NONE NONE NONE	37 19496 history2  146 0 6 history2 NONE NONE NONE NONE
CONTAMINANT Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm  TS  ppm  ppm  ppm  scalar  scalar  scalar  scalar  scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	125 22500  limit/base >75 >170 >20  limit/base NONE NONE NONE NONE NONE NONE	0 18312 current 66 1 0 current NONE NONE NONE NONE NONE NONE	1 20590 history1 32 0 2 history1 NONE NONE NONE NONE NONE NONE	37 19496 history2  146 0 6 history2 NONE NONE NONE NONE NONE NONE
CONTAMINANT Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  *Visual	125 22500  limit/base >75 >170 >20  limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 18312 current 66 1 0 current NONE NONE NONE NONE NONE NONE NONE NON	1 20590 history1 32 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	37 19496  history2  ▲ 146 0 6  history2  NONE NONE NONE NONE NONE NONE NONE NO
CONTAMINAN Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  wethod  *Visual	125 22500  limit/base >75 >170 >20  limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 18312  current 66 1 0  current NONE NONE NONE NONE NONE NONE NONE NON	1 20590 history1 32 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	37 19496  history2  ▲ 146 0 6  history2  NONE NONE NONE NONE NONE NONE NONE NO
CONTAMINANT Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  *Visual  *Visual	125 22500  limit/base >75 >170 >20  limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 18312  current 66 1 0  current NONE NONE NONE NONE NONE NONE NONE NON	1 20590 history1 32 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	37 19496 history2  146 0 6 history2 NONE NONE NONE NONE NONE NONE NONE NON
CONTAMINAN Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  wethod  *Visual	125 22500  limit/base >75 >170 >20  limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 18312  current 66 1 0  current NONE NONE NONE NONE NONE NONE NONE NON	1 20590 history1 32 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	37 19496  history2  ▲ 146 0 6  history2  NONE NONE NONE NONE NONE NONE NONE NO



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No. : GFL0128775 Lab Number : 06240769

Unique Number : 11129603 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024

Tested : 19 Jul 2024 Diagnosed : 22 Jul 2024 - Don Baldridge

16011 West Belfort Street Sugar Land, TX US 77498

Contact: Adrian Martinez adrianmartinez@gflenv.com

GFL Environmental - 983 - Sugar Land Hauling

Submitted By: TECHNICIAN ACCOUNT

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)

Report Id: GFL983 [WUSCAR] 06240769 (Generated: 07/22/2024 10:10:05) Rev: 1

T:

F:

history2

history2