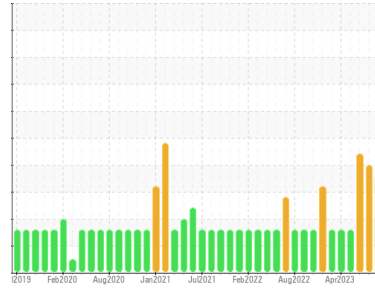




# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



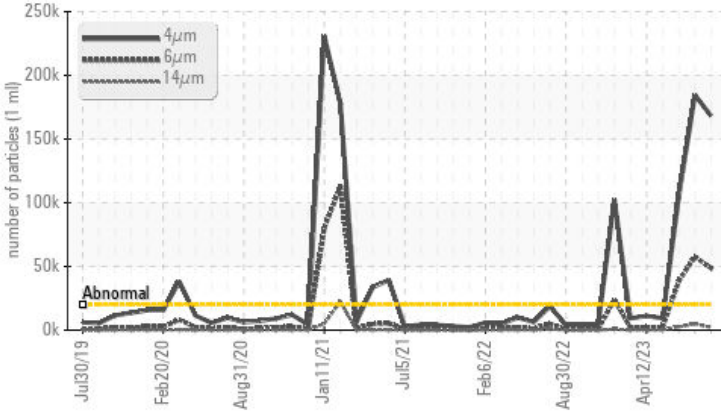
Machine Id  
**CF201 (S/N 00881-003-1-01-01)**

Component  
**Gearbox**

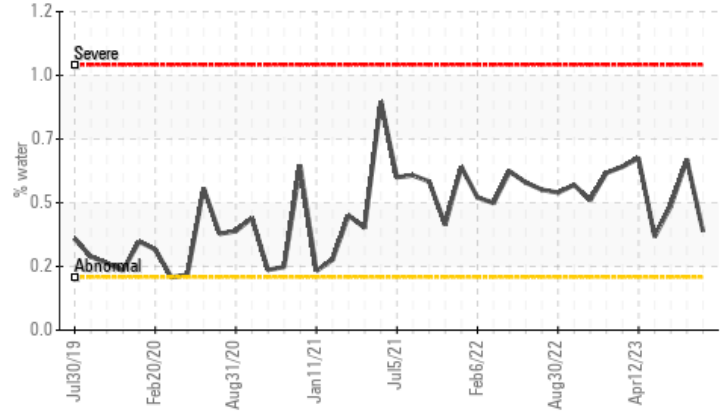
Fluid  
**MOBIL GLYGOYLE 100 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.2	▲ <b>0.373</b>	▲ 0.642	▲ 0.467
ppm Water	ppm	ASTM D6304	>2000	▲ <b>3730</b>	▲ 6420	▲ 4670
Particles >4µm		ASTM D7647	>20000	▲ <b>168211</b>	▲ 184612	▲ 104408
Particles >6µm		ASTM D7647	>5000	▲ <b>48653</b>	▲ 57592	▲ 38492
Particles >14µm		ASTM D7647	>640	▲ <b>2153</b>	▲ 4935	▲ 2544
Particles >21µm		ASTM D7647	>160	▲ <b>542</b>	▲ 1377	▲ 916
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ <b>25/23/18</b>	▲ 25/23/19	▲ 24/22/19

Customer Id: FLIFAI  
Sample No.: USP234733  
Lab Number: 05934886  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### 06 Aug 2023 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 22 Jun 2023 Diag: Doug Bogart

WATER



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 21 May 2023 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

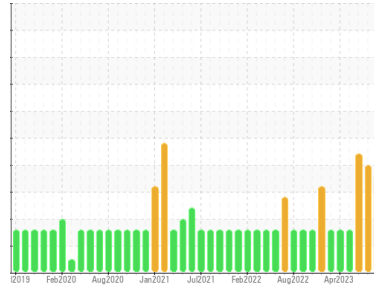
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**CF6201 (S/N 00881-003-1-01-01)**

Component  
**Gearbox**  
Fluid  
**MOBIL GLYGOYLE 100 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USP234733</b>	USP246079	USP246084
Sample Date	Client Info		<b>26 Aug 2023</b>	06 Aug 2023	22 Jun 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>74</b>	3	26
Chromium	ppm	ASTM D5185m	>15	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>11</b>	0	0
Tin	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	4	0
Calcium	ppm	ASTM D5185m		<b>2</b>	0	0
Phosphorus	ppm	ASTM D5185m		<b>547</b>	286	574
Zinc	ppm	ASTM D5185m		<b>2</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>853</b>	461	778

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>1</b>	0	4
Sodium	ppm	ASTM D5185m		<b>4</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	2
Water	%	ASTM D6304	>0.2	<b>▲ 0.373</b>	▲ 0.642	▲ 0.467
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 3730</b>	▲ 6420	▲ 4670

## FLUID CLEANLINESS

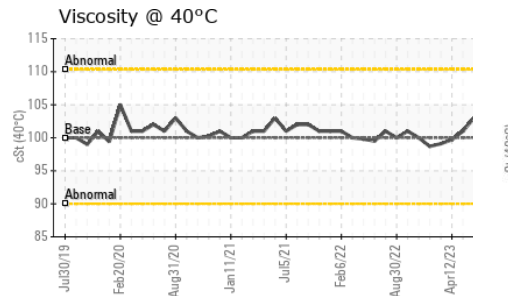
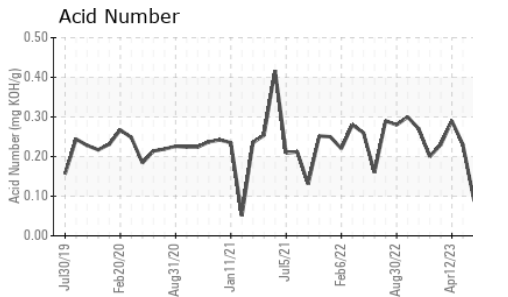
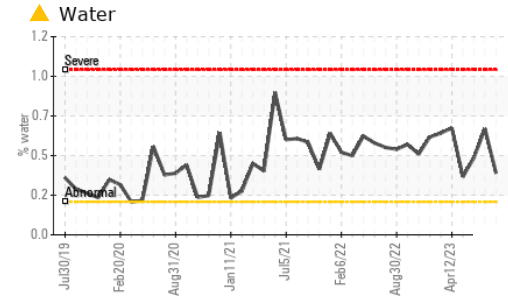
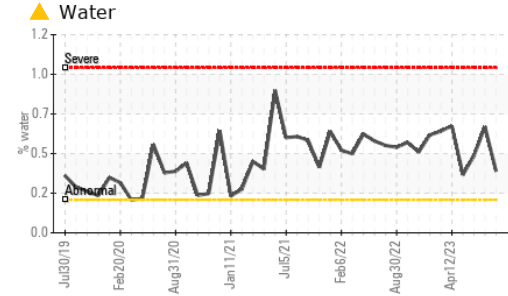
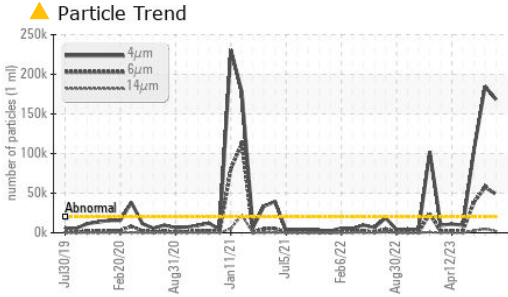
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 168211</b>	▲ 184612	▲ 104408
Particles >6µm	ASTM D7647	>5000	<b>▲ 48653</b>	▲ 57592	▲ 38492
Particles >14µm	ASTM D7647	>640	<b>▲ 2153</b>	▲ 4935	▲ 2544
Particles >21µm	ASTM D7647	>160	<b>▲ 542</b>	▲ 1377	▲ 916
Particles >38µm	ASTM D7647	>40	<b>26</b>	▲ 75	▲ 258
Particles >71µm	ASTM D7647	>10	<b>2</b>	4	▲ 68
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 25/23/18</b>	▲ 25/23/19	▲ 24/22/19

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.052</b>	0.052	0.09



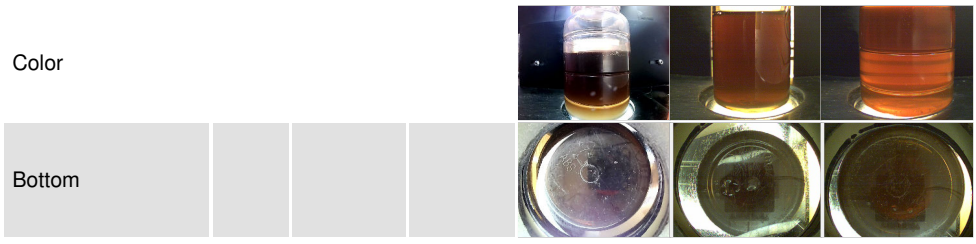
# OIL ANALYSIS REPORT



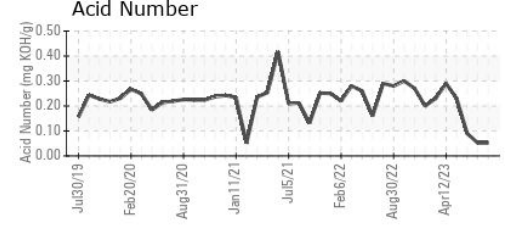
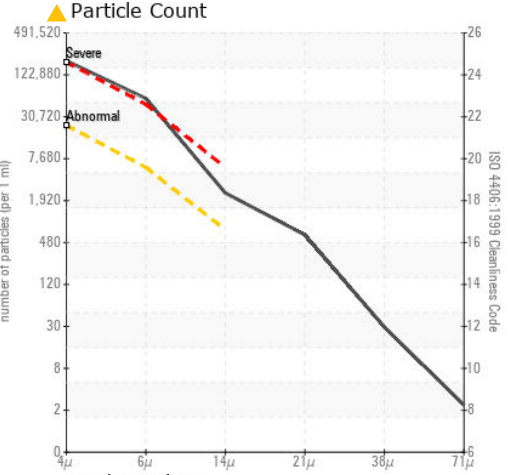
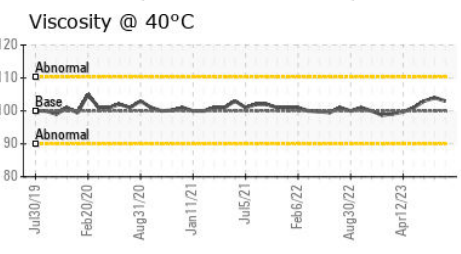
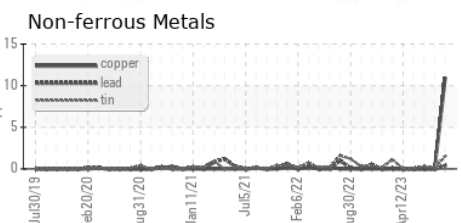
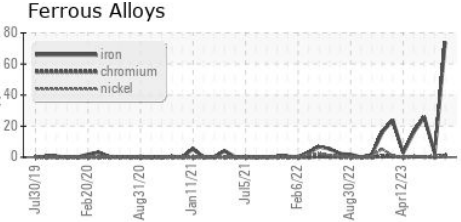
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100.0	103	104

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP234733 **Received** : 25 Aug 2023  
**Lab Number** : 05934886 **Diagnosed** : 29 Aug 2023  
**Unique Number** : 10620157 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**POET BIO PROCESSING**  
 1277 102ND ST  
 FAIRBANK, IA  
 US 50662  
 Contact: JASON GOEDKEN  
 Jason.Goedken@POET.COM  
 T: (319)284-2621  
 F:

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)