

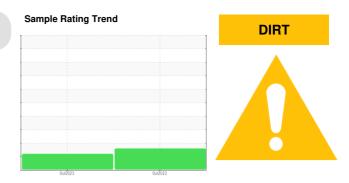
## **PROBLEM SUMMARY**



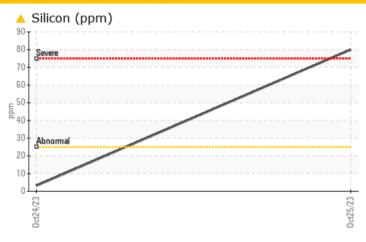
# {UNASSIGNED} Machine Id 914023

Component

1 Diesel Engine
Fluid
NOT GIVEN (9 GAL)



### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

PROBLEMATION	C TEST	RESULT	S			
Sample Status				ABNORMAL	ABNORMAL	
Silicon	ppm	ASTM D5185m	>25	<b>A</b> 80	3	

Customer Id: GFL405
Sample No.: GFL0097658
Lab Number: 06009327
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

#### **RECOMMENDED ACTIONS** Action **Status** Date Done By Description Change Fluid ? Oil and filter change at the time of sampling has been noted. Change Filter ? Oil and filter change at the time of sampling has been noted. Note that there appears to be a discrepancy in the total time on this ? Alert component, when compared to the historical data. Information Required ? Please specify the brand, type, and viscosity of the oil on your next sample.

### **HISTORICAL DIAGNOSIS**

24 Oct 2023 Diag: Don Baldridge

### DEGRADATION



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low. The oil is no longer serviceable.





## **OIL ANALYSIS REPORT**

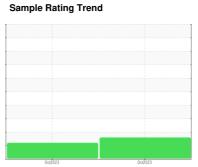


# {UNASSIGNED} Machine Id 914023

Component

1 Diesel Engine

**NOT GIVEN (9 GAL)** 





### DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

#### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

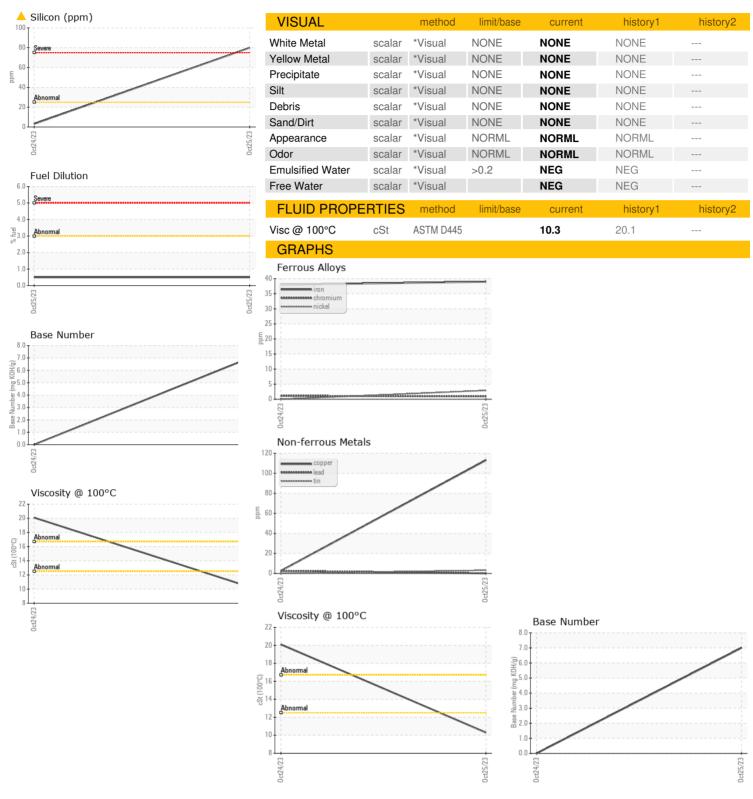
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

			0ct2023	Oct2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097658	GFL0097720	
Sample Date		Client Info		25 Oct 2023	24 Oct 2023	
Machine Age	hrs	Client Info		880	370	
Oil Age	hrs	Client Info		880	370	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	39	38	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>5	3	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>20	4	1	
Lead	ppm	ASTM D5185m	>40	0	3	
Copper	ppm	ASTM D5185m	>330	113	3	
Tin	ppm	ASTM D5185m	>15	3	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron						
ווטוטכ	ppm	ASTM D5185m		129	2	
	ppm	ASTM D5185m ASTM D5185m		129 0	2	
Barium						
Barium Molybdenum	ppm	ASTM D5185m		0	0	
Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		0 99	0 58	
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 99 4	0 58 <1	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 99 4 657	0 58 <1 946	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 99 4 657 1321	0 58 <1 946 1147	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 99 4 657 1321 681	0 58 <1 946 1147 1029	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 99 4 657 1321 681 852	0 58 <1 946 1147 1029 1256	  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 99 4 657 1321 681 852 2045	0 58 <1 946 1147 1029 1256 2893	  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 99 4 657 1321 681 852 2045	0 58 <1 946 1147 1029 1256 2893 history1	  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m		0 99 4 657 1321 681 852 2045  current	0 58 <1 946 1147 1029 1256 2893 history1	    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25	0 99 4 657 1321 681 852 2045  current  80 4	0 58 <1 946 1147 1029 1256 2893 history1 3	    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25 >20	0 99 4 657 1321 681 852 2045  current  80 4 8	0 58 <1 946 1147 1029 1256 2893 history1 3 0	   history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25 >20 >3.0	0 99 4 657 1321 681 852 2045  current  80 4 8 0.5	0 58 <1 946 1147 1029 1256 2893 history1 3 3 0 <1.0	   history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25 >20 >3.0 limit/base	0 99 4 657 1321 681 852 2045	0 58 <1 946 1147 1029 1256 2893 history1 3 0 <1.0	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m	>25 >20 >3.0 limit/base >4	0 99 4 657 1321 681 852 2045	0 58 <1 946 1147 1029 1256 2893 history1 3 0 <1.0 history1 3.4	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D76145	>25 >20 >3.0 limit/base >4 >20	0 99 4 657 1321 681 852 2045	0 58 <1 946 1147 1029 1256 2893 history1 3 0 <1.0 history1 3.4 3.1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D76145	>25 >20 >3.0 limit/base >4 >20 >30	0 99 4 657 1321 681 852 2045 current ▲ 80 4 8 0.5 current 0.5	0 58 <1 946 1147 1029 1256 2893 history1 3 0 <1.0 history1 3.4 3.1 11.0	history2 history2



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** 

: GFL0097658 : 06009327

: 10743089

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 Diagnosed : 20 Nov 2023 Diagnostician : Don Baldridge

Test Package : FLEET ( Additional Tests: FuelDilution, PercentFuel )

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)

GFL Environmental - 405 - Arbor Hills

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