# **PROBLEM SUMMARY**



Machine Id 914031 Component Diesel Engine Fluid NOT GIVEN (--- 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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Silicon	ppm	ASTM D5185m	>25	<u> </u>				

Customer Id: GFL814 Sample No.: GFL0091023 Lab Number: 05976372 Test Package: FLEET



To manage this report scan the QR code

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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.		
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.		

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend

DIRT

#### Machine Id 914031 Component Diesel Engine Fluid NOT GIVEN (--- GAL)

## DIAGNOSIS

#### A 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.

#### Wear

Metal levels are typical for a new component breaking in.

#### 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.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091023		
Sample Date		Client Info		06 Oct 2023		
Machine Age	hrs	Client Info		271		
Oil Age	hrs	Client Info		271		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	4		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	57		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		297		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		120		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		722		
Calcium	ppm	ASTM D5185m		1392		
Phosphorus	ppm	ASTM D5185m		665		
Zinc	ppm	ASTM D5185m		831		
Sulfur	ppm	ASTM D5185m		2277		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<mark>/</mark> 79		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4		



# **OIL ANALYSIS REPORT**



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history2

history2