

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



## Machine Id 914031 Component

**Diesel Engine** 

NOT GIVEN (--- GAL)

### DIAGNOSIS

### Recommendation

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

There is no indication of any contamination in the

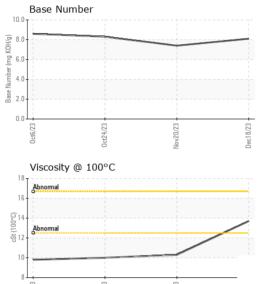
## **Fluid Condition**

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

		0ct2023			ec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103015	GFL0103005	GFL0098826
Sample Date		Client Info		18 Dec 2023	20 Nov 2023	24 Oct 2023
Machine Age	hrs	Client Info		750	587	405
Oil Age	hrs	Client Info		163	182	134
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	39	33
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm		>4	2	3	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	1	<1
Aluminum	ppm	ASTM D5185m	>20	1	3	7
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	35	262	185
Tin	ppm	ASTM D5185m	>15	<1	3	3
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0	0 <1	0 <1
	ppm		11 10 11			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		16	192	297
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	115	123
Manganese	ppm	ASTM D5185m ASTM D5185m		1	4	3
Magnesium Calcium	ppm	ASTM D5185m		936 1052	734 1406	694 1350
Phosphorus	ppm	ASTM D5185m		1102	675	713
Zinc	ppm	ASTM D5185m		1252	853	825
Sulfur	ppm	ASTM D5185m		3131	2490	2577
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	<u>^</u> 74	<u> 82</u>
Sodium	ppm	ASTM D5185m	,	3	0	3
Potassium	ppm	ASTM D5185m	>20	<1	5	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.1	9.4	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	23.9	24.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	22.0	21.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	7.4	8.3
,						



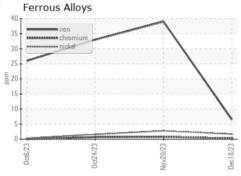
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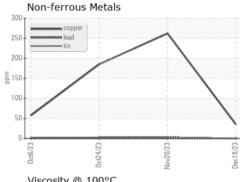


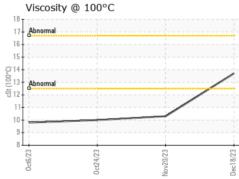
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

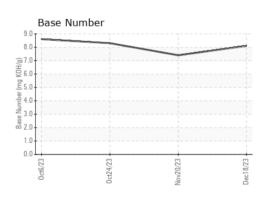
FLUID PROP	EHILO	method		riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	13.7	10.3	10.0

### **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: 06043764 : 10804372

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103015 Recieved : 22 Dec 2023 Diagnosed : 26 Dec 2023

Diagnostician : Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Michael Lovin mlovin@gflenv.com

T: F:

\* - 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)