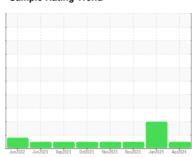


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id

830 M
Component
Diesel Engine
Fluid
SAE 5W20 (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

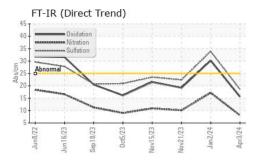
## **Fluid Condition**

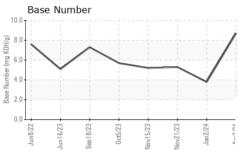
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

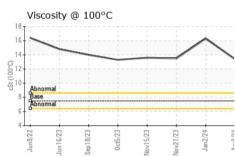
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0104486	GFL0104189	GFL0059307			
Sample Date		Client Info		03 Apr 2024	02 Jan 2024	21 Nov 2023			
Machine Age	hrs	Client Info		0	5914	5725			
Oil Age	hrs	Client Info		600	5914	5725			
Oil Changed		Client Info		Changed	N/A	N/A			
Sample Status				NORMAL	ABNORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<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	28	72	70			
Chromium	ppm	ASTM D5185m	>20	<1	2	2			
Nickel	ppm	ASTM D5185m	>2	0	1	2			
Titanium	ppm	ASTM D5185m	>2	0	<1	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	2	5	4			
Lead	ppm	ASTM D5185m	>40	0	4	<1			
Copper	ppm	ASTM D5185m	>330	2	3	10			
Tin	ppm	ASTM D5185m	>15	0	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		14	2	1			
Barium	ppm	ASTM D5185m		0	8	0			
Molybdenum	ppm	ASTM D5185m		56	63	58			
Manganese	ppm	ASTM D5185m		<1	1	2			
Magnesium	ppm	ASTM D5185m		938	974	854			
Calcium	ppm	ASTM D5185m		1116	1126	1024			
Phosphorus	ppm	ASTM D5185m		1047	952	864			
Zinc	ppm	ASTM D5185m		1238	1270	1066			
Sulfur	ppm	ASTM D5185m		3430	2694	1984			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	11	11	5			
Sodium	ppm	ASTM D5185m		2	6	7			
Potassium	ppm	ASTM D5185m	>20	0	4	0			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.2	<b>▲</b> 3.8	1			
Nitration	Abs/cm	*ASTM D7624		8.1	17.2	10.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	33.9	22.4			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414		15.6	30.2	19.2			
Base Number (BN)	mg KOH/g	ASTM D2896	<i>&gt;</i> L0	8.7	△ 3.8	5.3			
Dase Mulliper (DIV)	my Normy	70 LINI D5030		0.7	0.0	0.0			

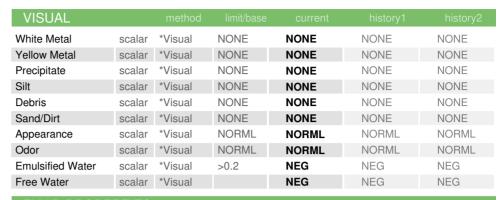


# **OIL ANALYSIS REPORT**



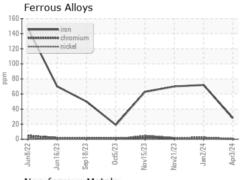


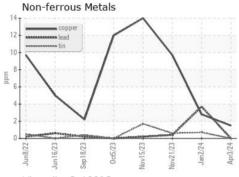


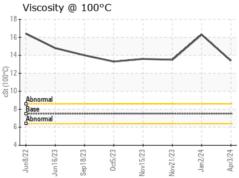


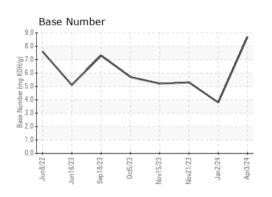
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	7.5	13.4	16.3	13.5

### **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06140958

Test Package : FLEET

: GFL0104486 Unique Number : 10965766

Received **Tested** Diagnosed

: 08 Apr 2024 : 09 Apr 2024

: 10 Apr 2024 - Jonathan Hester

GFL Environmental - 410 - Michigan West 39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

Certificate 12367

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

 $^st$  - 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)