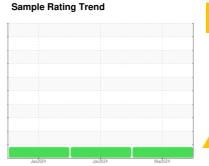






<sup>Area</sup> **2730** 813031 Component **Diesel Engine** {not provided} (--- GAL)





## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The nickel level is abnormal. All other metal levels are typical for a new component breaking in.

### 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.

_)		Ja	2024	Jan 2024 Mar 20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112169	GFL0098054	GFL0023773
Sample Date		Client Info		18 Mar 2024	22 Jan 2024	18 Jan 2024
Machine Age	hrs	Client Info		1119	1119	1119
Oil Age	hrs	Client Info		1119	1119	1119
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	71	55	61
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>5	<b>△</b> 32	<u> </u>	<u>^</u> 28
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	2	1	<1
Copper	ppm	ASTM D5185m	>330	52	42	42
Tin	ppm	ASTM D5185m	>15	4	4	4
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	9	12
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		77	67	75
Manganese	ppm	ASTM D5185m		4	3	3
Magnesium	ppm	ASTM D5185m		863	826	998
Calcium	ppm	ASTM D5185m		1171	1096	1200
Phosphorus	ppm	ASTM D5185m		849	832	968
Zinc	ppm	ASTM D5185m		1103	1022	1262
Sulfur	ppm	ASTM D5185m		2010	1642	2395
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	19	17	17
Sodium	ppm	ASTM D5185m		1	4	7
Potassium	ppm	ASTM D5185m	>20	8	5	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.9	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.2	11.4	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.0	22.6
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	21.5	20.9
Base Number (BN)	mg KOH/g	ASTM D2896		4.0	4.3	4.8



# **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No.

: GFL0112169 Lab Number : 06127503 **Unique Number** : 10941654

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

Received **Tested** Diagnosed Test Package : FLEET

: 26 Mar 2024 : 27 Mar 2024 - Don Baldridge

: 25 Mar 2024

GFL Environmental - 045 - Tidewater 3821 Cook Blvd.

Chesapeake, VA US 23323

Contact: ELVIN RODRIGUEZ elvinrodriguez@gflenv.com

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)

T: F: