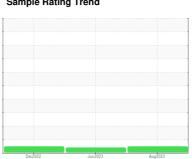


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

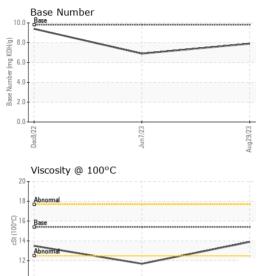
### **Fluid Condition**

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

14 3111 13W <del>1</del> 0 (	GAL)	Dec2022 Jun2023 Aug2023				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092747	GFL0080798	GFL0067268
Sample Date		Client Info		29 Aug 2023	07 Jun 2023	08 Dec 2022
Machine Age	hrs	Client Info		8666	8666	0
Oil Age	hrs	Client Info		8666	0	600
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.2	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	8	75	10
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	4
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	4	18	1
Lead	ppm	ASTM D5185m	>30	0	1	3
Copper	ppm	ASTM D5185m	>30	3	24	8
Tin	ppm	ASTM D5185m	>15	<1	3	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	33	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	27	60
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	1010	917	768	932
Calcium	ppm	ASTM D5185m	1070	1017	1546	1121
Phosphorus	ppm	ASTM D5185m	1150	912	829	963
Zinc	ppm	ASTM D5185m	1270	1169	1050	1323
Sulfur	ppm	ASTM D5185m	2060	2990	4120	3200
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	13	4
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	0	47	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.5	6.5	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.6	19.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	15.6	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	6.9	9.4
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# **OIL ANALYSIS REPORT**



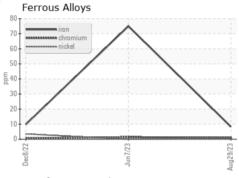
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2

13.9

**11.7** 

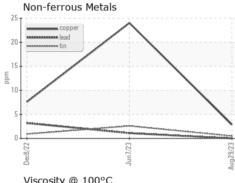
13.5

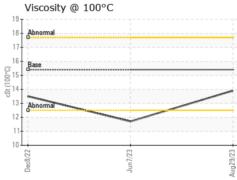
## Visc @ 100°C **GRAPHS**

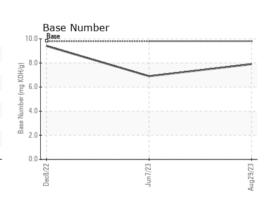


cSt

ASTM D445 15.4











Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10631176 Test Package : FLEET

: GFL0092747 : 05940564

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Sep 2023 Diagnosed : 01 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 455 - Flint 2051 W. Bristol Rd

Flint Township, MI US 48507 Contact: MARK WOMBLE

mwomble@gflenv.com T: (586)825-9514

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)