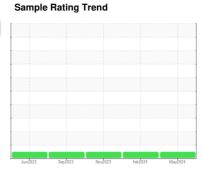


# **OIL ANALYSIS REPORT**







## 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

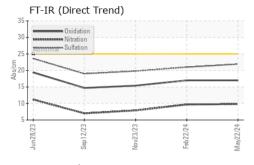
## **Fluid Condition**

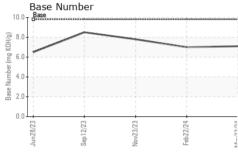
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

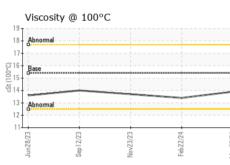
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116068	GFL0092974	GFL009295
Sample Date		Client Info		22 May 2024	22 Feb 2024	23 Nov 2023
Machine Age	hrs	Client Info		2772	2772	2772
Oil Age	hrs	Client Info		2772	2772	2707
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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	21	20	12
Chromium	ppm	ASTM D5185m	>20	2	1	0
Nickel	ppm	ASTM D5185m	>5	7	7	3
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	5	3
Tin	ppm	ASTM D5185m	>15	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	3	2
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	64	64	60
Manganese	ppm	ASTM D5185m	0	1	<1	0
Magnesium	ppm	ASTM D5185m	1010	960	960	982
Calcium	ppm	ASTM D5185m	1070	1139	1031	1089
Phosphorus	ppm	ASTM D5185m	1150	1013	1027	953
Zinc	ppm	ASTM D5185m	1270	1247	1273	1265
Sulfur	ppm	ASTM D5185m	2060	2876	2841	2874
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	5
Sodium	ppm	ASTM D5185m		4	6	3
Potassium	ppm	ASTM D5185m	>20	12	11	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.1	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.7	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.0	19.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.0	15.4



# **OIL ANALYSIS REPORT**



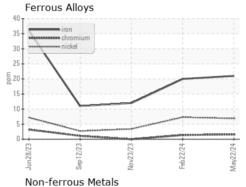


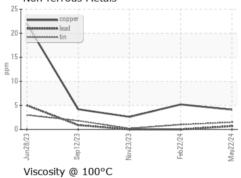


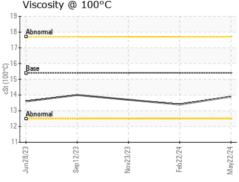
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

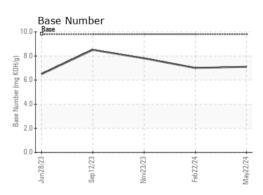
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.4	13.7	

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06191893 Unique Number : 11048645 Test Package : FLEET

: GFL0116068

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 29 May 2024

Diagnosed : 30 May 2024 - Sean Felton

GFL Environmental - 463 - Cheboygan 501 N. Western Ave

Cheboygan, MI US 49721 Contact: Chris Gee cgee@gflenv.com

T: (231)597-8553

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)