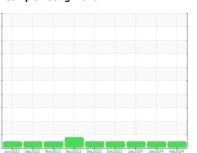


# **OIL ANALYSIS REPORT**

## **Sample Rating Trend**









## 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

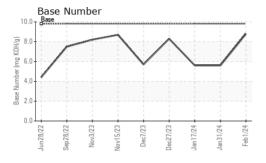
## **Fluid Condition**

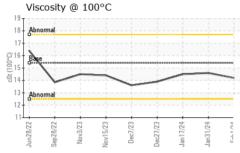
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CAMPLE INCOE		Juni2022 Sep		Dec2023 Dec2023 Jan2024 Jan20		hi atawa 0
SAMPLE INFOR	KIVIATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110025	GFL0110028	GFL0109979
Sample Date		Client Info		01 Feb 2024	31 Jan 2024	17 Jan 2024
Machine Age	hrs	Client Info		14616	14616	14441
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>90	21	47	46
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	17	5	9
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	1	1
Barium	ppm	ASTM D5185m	0	5	5	0
Molybdenum	ppm	ASTM D5185m	60	63	64	56
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	959	975	917
Calcium	ppm	ASTM D5185m	1070	1021	1039	1090
Phosphorus	ppm	ASTM D5185m	1150	920	904	860
Zinc	ppm	ASTM D5185m	1270	1222	1254	1153
Sulfur	ppm	ASTM D5185m	2060	2908	2576	2477
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	15
Sodium	ppm	ASTM D5185m		39	<1	8
Potassium	ppm	ASTM D5185m	>20	29	12	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.1	13.3	13.6
Sulfation	Abs/.1mm	*ASTM D7415		18.9	25.7	25.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	26.4	26.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	5.6	5.6
	mg nong		0.0	0.0	0.0	0.0



# **OIL ANALYSIS REPORT**

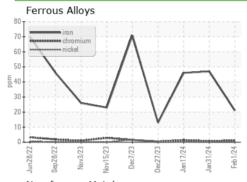


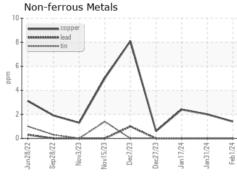


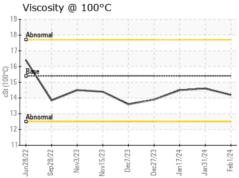
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

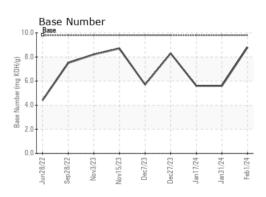
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.6	14.5

## **GRAPHS**













Laboratory Sample No.

Lab Number : 06081134 Unique Number: 10863225 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110025 Received **Tested** 

: 06 Feb 2024 Diagnosed

: 07 Feb 2024 - Don Baldridge

: 06 Feb 2024

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

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

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)