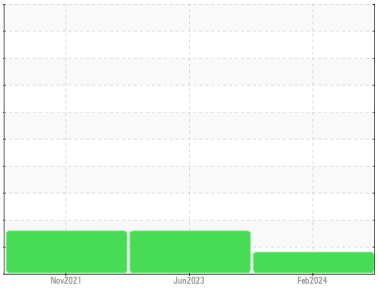
OIL ANALYSIS REPORT

Machine Id
OR877
Component
Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation
Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Nous avons noté une brusque hausse du taux d`étain. Usure de palier et (ou) de douille.

Contamination
Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition
l`huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0089244**	GFL0061625	GFL0026144
Sample Date		Client Info		**29 Feb 2024**	22 Jun 2023	02 Nov 2021
Machine Age	hrs	Client Info		**8249**	7315	5289
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

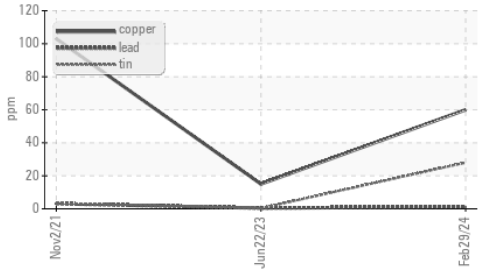
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>1450	**152**	162	535
Chromium	ppm	ASTM D5185(m)	>11	**<1**	1	3
Nickel	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	<1	0
Silver	ppm	ASTM D5185(m)		**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>4	**1**	<1	3
Copper	ppm	ASTM D5185(m)	>542	**60**	15	103
Tin	ppm	ASTM D5185(m)	>38	▲ **28**	<1	3
Antimony	ppm	ASTM D5185(m)	>5	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	400	**4**	15	8
Barium	ppm	ASTM D5185(m)	200	**2**	6	0
Molybdenum	ppm	ASTM D5185(m)	12	**0**	<1	0
Manganese	ppm	ASTM D5185(m)		**1**	2	4
Magnesium	ppm	ASTM D5185(m)	12	**<1**	2	1
Calcium	ppm	ASTM D5185(m)	150	**8**	17	21
Phosphorus	ppm	ASTM D5185(m)	1650	**2361**	2354	2517
Zinc	ppm	ASTM D5185(m)	125	**27**	16	36
Sulfur	ppm	ASTM D5185(m)	22500	**25055**	25686	34771
Lithium	ppm	ASTM D5185(m)		**<1**	1	<1

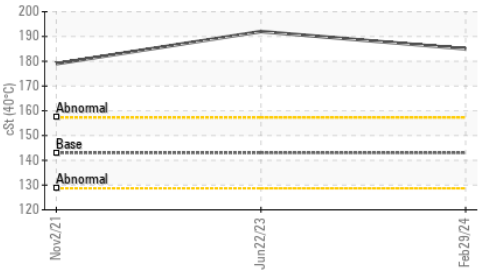
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**2**	3	1
Sodium	ppm	ASTM D5185(m)	>170	**2**	8	3
Potassium	ppm	ASTM D5185(m)	>20	**<1**	3	1

OIL ANALYSIS REPORT

▲ Non-ferrous Metals



Viscosity @ 40°C



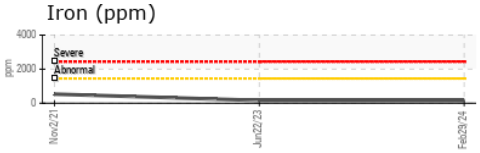
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	LIGHT
Sand/Dirt	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**	.2%	▲ .5%
Free Water	scalar	Visual*		**NEG**	▲ 1%	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	143	**185**	192	179

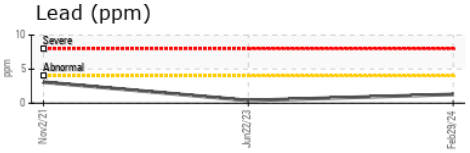
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

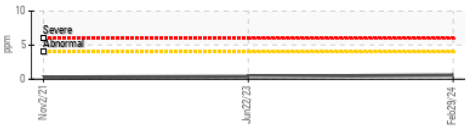
Iron (ppm)



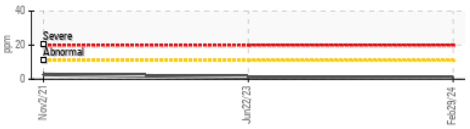
Lead (ppm)



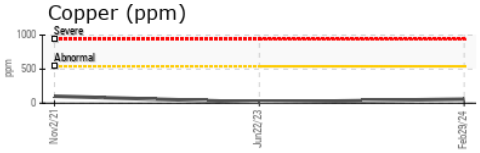
Aluminum (ppm)



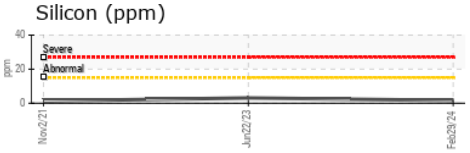
Chromium (ppm)



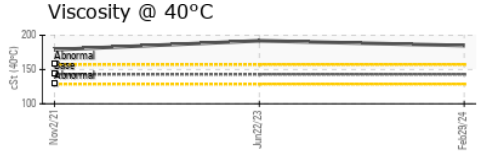
Copper (ppm)



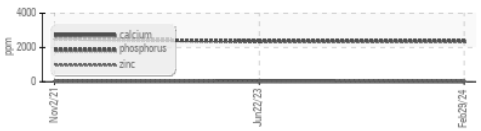
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0089244
Lab Number : 02619977
Unique Number : 5737087
Test Package : MOB 1

Received : 05 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 06 Mar 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

GFL Environmental - 784 - Saint-Hyacinthe
3525 Boul. Laurier Est.,
Saint-Hyacinthe, QC
CA J2R 2B2
Contact: Nadine Authier
nauthier@matrec.ca
T: (450)773-9689
F: