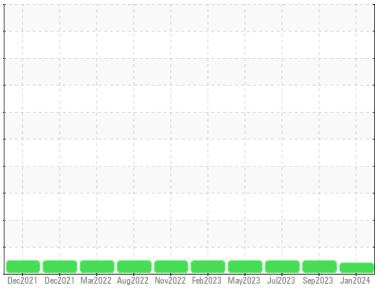
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
711025
Component
Diesel Engine
Fluid
RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Aucune mesure corrective n`est recommandée pour l`instant. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition. Le fluide était spécifié comme RDL-3647, toutefois, une comparaison avec d'autres fluides indiqu que ce fluide est du SAE 30 Diesel Engine Oil. Veuillez confirmer la viscosité de l`huile et veuillez préciser la marque de votre prochain échantillon.

Wear

Les taux de métaux sont typiques pour la période de rodage d`un nouveau composant.

Contamination

La teneur en carburant est négligeable. Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. Ceci, en plus des niveaux d`additifs, indique que la marque ou le type d`huile ne correspond pas à ce qui a été signalé. L`état de l`huile est acceptable pour la durée de service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0107600**	GFL0096359	GFL0087551
Sample Date		Client Info		**23 Jan 2024**	28 Sep 2023	19 Jul 2023
Machine Age	kms	Client Info		**104348**	90127	4388
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**11**	9	10
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	0	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	2
Lead	ppm	ASTM D5185(m)	>40	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**2**	2	2
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
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)	50	**1**	2	1
Barium	ppm	ASTM D5185(m)	5	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	**60**	61	58
Manganese	ppm	ASTM D5185(m)	0	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	560	**950**	990	981
Calcium	ppm	ASTM D5185(m)	1510	**1110**	1089	1052
Phosphorus	ppm	ASTM D5185(m)	780	**990**	1008	1038
Zinc	ppm	ASTM D5185(m)	870	**1235**	1208	1193
Sulfur	ppm	ASTM D5185(m)	2040	**2463**	2317	2268
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**3**	3	3
Sodium	ppm	ASTM D5185(m)		**3**	9	9
Potassium	ppm	ASTM D5185(m)	>20	**2**	4	4
Fuel	%	ASTM D7593*	>3.0	**0.7**	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0.3**	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**9.2**	8.2	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.4**	20.4	21.1

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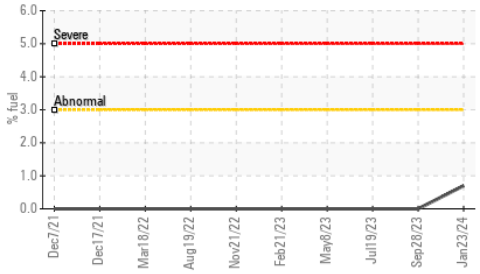
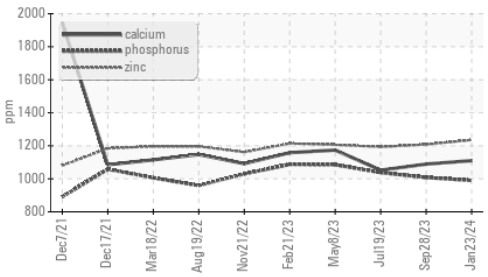
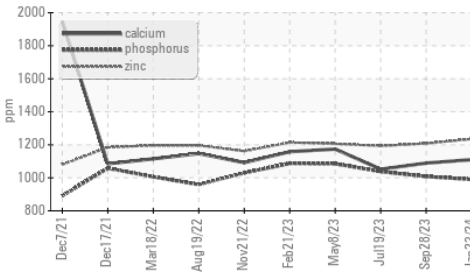
Fuel Dilution



Additives



Additives



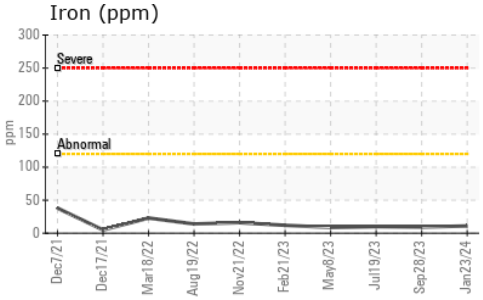
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.4**	16.5	16.7

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

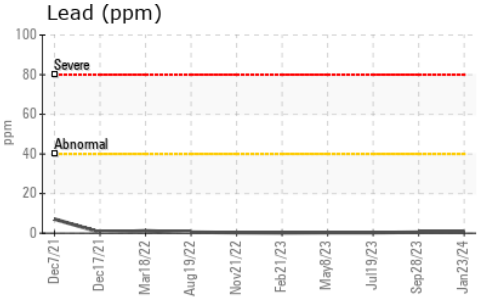
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	▲ **11.3**	11.5	11.8

GRAPHS

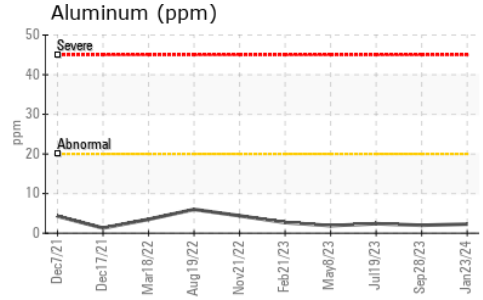
Iron (ppm)



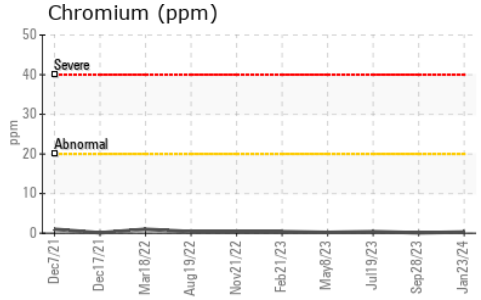
Lead (ppm)



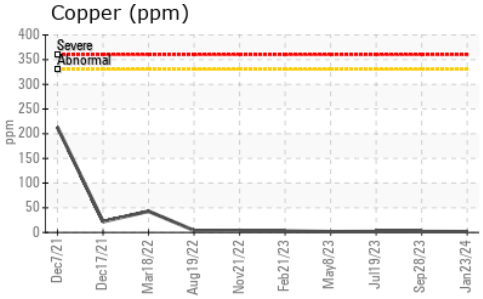
Aluminum (ppm)



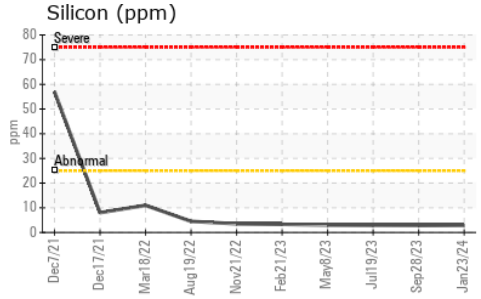
Chromium (ppm)



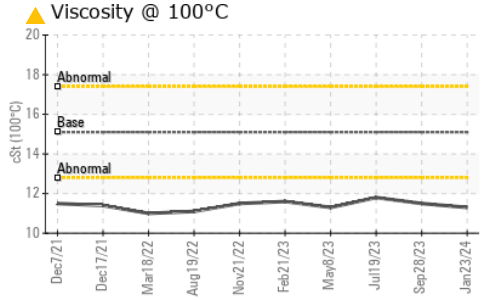
Copper (ppm)



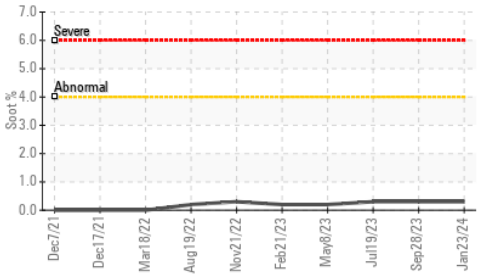
Silicon (ppm)



▲ Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107600
Lab Number : 02612304
Unique Number : 5721399
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Received : 31 Jan 2024
Tested : 01 Feb 2024
Diagnosed : 01 Feb 2024 - Bill Quesnel

GFL Environmental - 747 - GMA - Solid Waste
4 Chemin du Tremblay,
Boucherville, QC
CA J4B 6Z5
Contact: Steve Voyer
svoyer@matrec.ca
T:
F:

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.