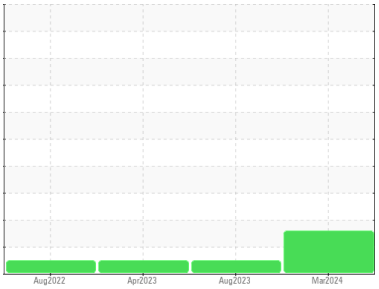
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
831011
Component
Diesel Engine
Fluid
RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation
Nous vous recommandons de vérifier la source de l`infiltration d`eau. Nous avons pris note que la vidange d`huile a été effectuée au moment de l`échantillonnage. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Les taux d`usure de tous les composants sont normaux.

Contamination
Légère concentration d`eau dans l`huile. Le test de glycol est négatif.

Fluid Condition
l`huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0107580**	GFL0087608	GFL0079406
Sample Date		Client Info		**08 Mar 2024**	17 Aug 2023	26 Apr 2023
Machine Age	kms	Client Info		**121232**	95295	81264
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	**20**	10	27
Chromium	ppm	ASTM D5185(m)	>5	**3**	1	3
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	2
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>3	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>30	**3**	2	3
Lead	ppm	ASTM D5185(m)	>30	**8**	<1	7
Copper	ppm	ASTM D5185(m)	>150	**2**	2	2
Tin	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
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	**4**	7	8
Barium	ppm	ASTM D5185(m)	5	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**119**	96	58
Manganese	ppm	ASTM D5185(m)	0	**<1**	<1	1
Magnesium	ppm	ASTM D5185(m)	560	**185**	349	935
Calcium	ppm	ASTM D5185(m)	1510	**2038**	1766	1492
Phosphorus	ppm	ASTM D5185(m)	780	**685**	774	833
Zinc	ppm	ASTM D5185(m)	870	**845**	890	950
Sulfur	ppm	ASTM D5185(m)	2040	**2220**	2308	2162
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**5**	5	14
Sodium	ppm	ASTM D5185(m)		**4**	2	5
Potassium	ppm	ASTM D5185(m)	>20	**2**	<1	<1
Water	%	ASTM D6304*	>0.2	▲ **0.317**	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ **3170**	---	---
Glycol	%	ASTM D7922*		**0.0**	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**10.1**	9.1	14.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**24.3**	23.4	27.6

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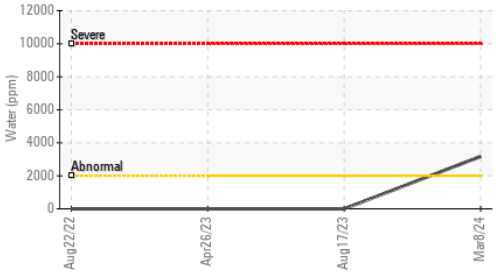
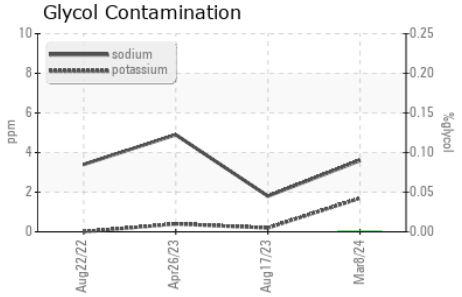
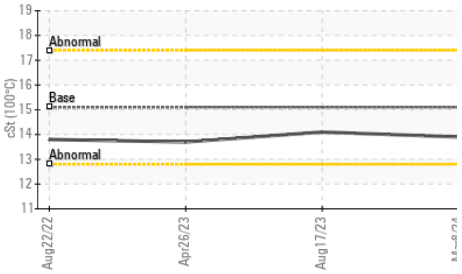
Water (KF)



Glycol Contamination



Viscosity @ 100°C



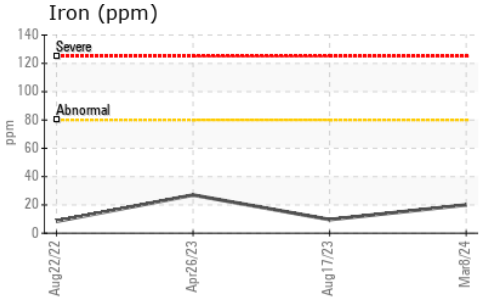
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.6**	15.2	24.8

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	▲ **.2%**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

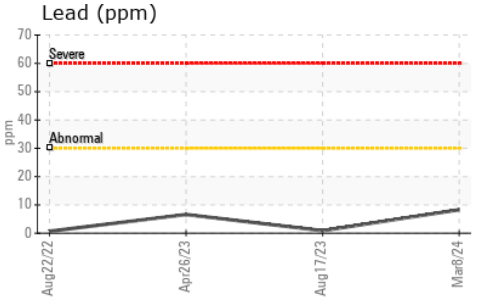
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	**13.9**	14.1	13.7

GRAPHS

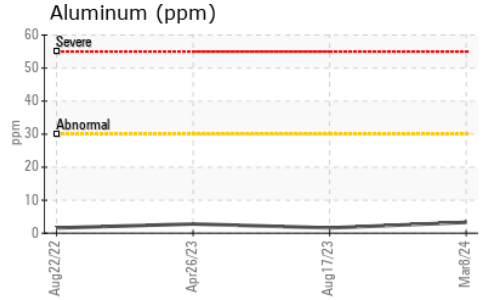
Iron (ppm)



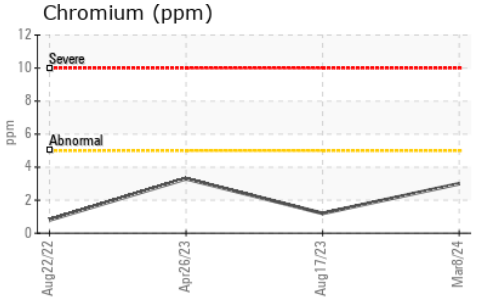
Lead (ppm)



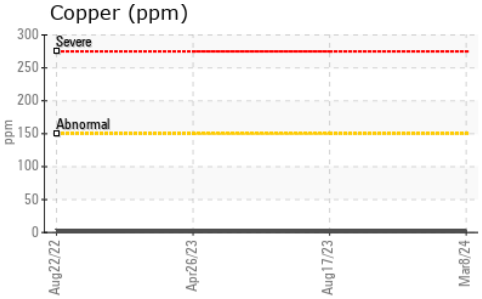
Aluminum (ppm)



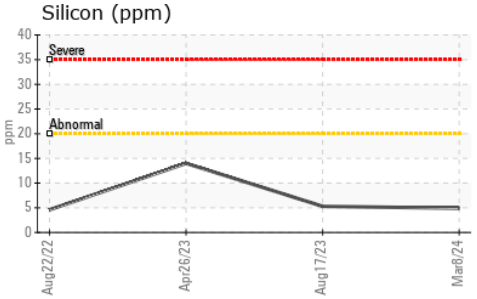
Chromium (ppm)



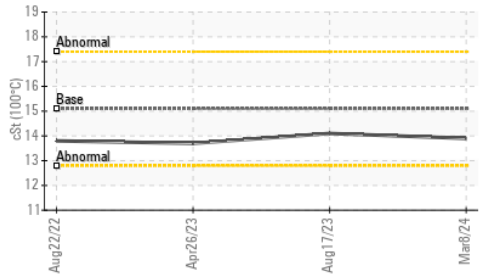
Copper (ppm)



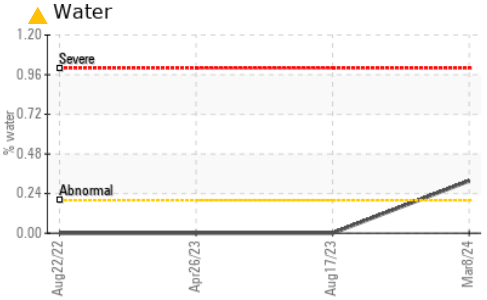
Silicon (ppm)



Viscosity @ 100°C



Water



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107580
Lab Number : 02622990
Unique Number : 5748109
Test Package : MOB 1 (Additional Tests: Glycol, KF)

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 20 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.

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