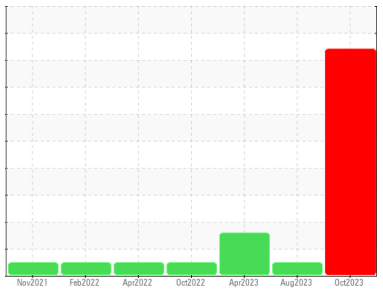
OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Machine Id
801225
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la source de la fuite de fluide de refroidissement. 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

Le test de glycol est positif. Concentration élevée de glycol dans l`huile.

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		**PC0078561**	PC0071867	PC0035173
Sample Date		Client Info		**05 Oct 2023**	14 Aug 2023	17 Apr 2023
Machine Age	hrs	Client Info		**20872**	20611	20024
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	NORMAL	ABNORMAL

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	**31**	49	20
Chromium	ppm	ASTM D5185(m)	>5	**4**	3	<1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>3	**<1**	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	**8**	9	3
Lead	ppm	ASTM D5185(m)	>30	**3**	2	0
Copper	ppm	ASTM D5185(m)	>150	**17**	2	1
Tin	ppm	ASTM D5185(m)	>5	**0**	<1	0
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)	250	**60**	6	39
Barium	ppm	ASTM D5185(m)	10	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**171**	69	62
Manganese	ppm	ASTM D5185(m)		**1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	**828**	947	722
Calcium	ppm	ASTM D5185(m)	3000	**989**	1159	1330
Phosphorus	ppm	ASTM D5185(m)	1150	**963**	1024	814
Zinc	ppm	ASTM D5185(m)	1350	**1101**	1182	876
Sulfur	ppm	ASTM D5185(m)	4250	**2378**	2436	2188
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

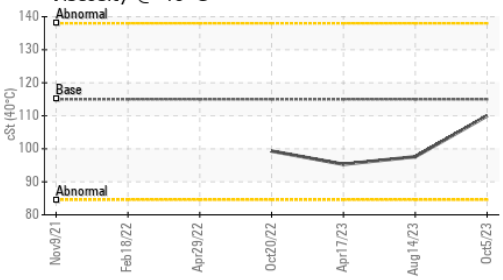
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**34**	18	▲ 20
Sodium	ppm	ASTM D5185(m)	>158	▲ **1839**	125	74
Potassium	ppm	ASTM D5185(m)	>20	▲ **170**	30	16
Glycol	%	ASTM D7922*		⬢ **1.166**	0.0	0.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.4**	0.7	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**14.3**	11.7	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.5**	24.6	20.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.2**	19.8	17.4

OIL ANALYSIS REPORT

Viscosity @ 40°C

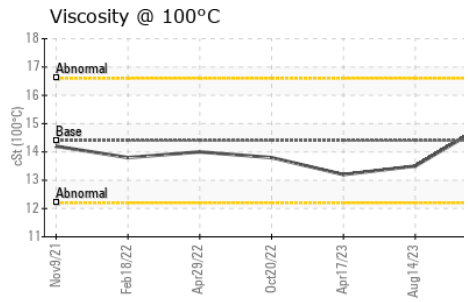


VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

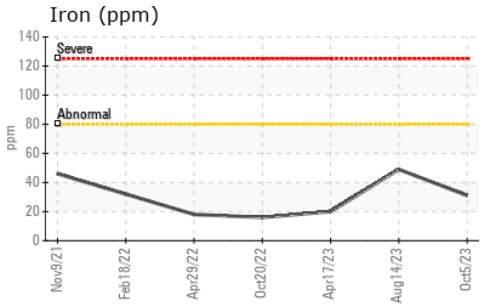
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	115	**110**	97.6	95.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**15.0**	13.5	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	126	**141**	138	137

GRAPHS

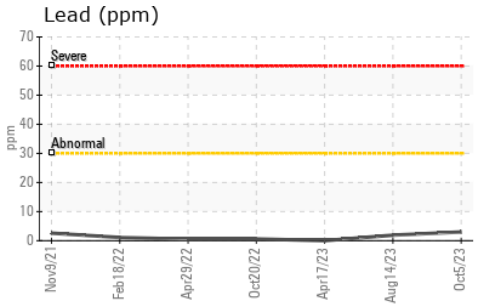
Viscosity @ 100°C



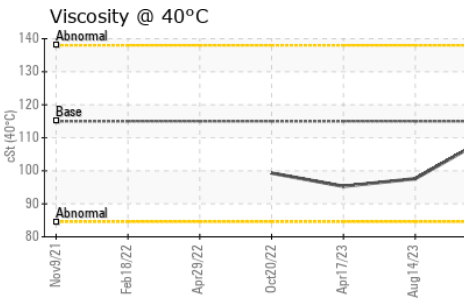
Iron (ppm)



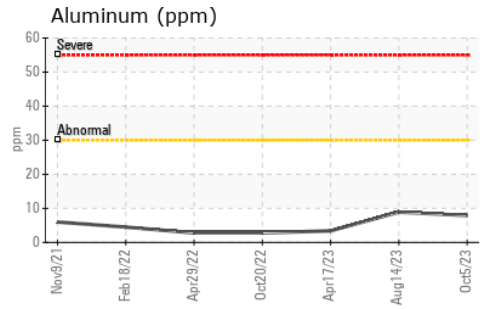
Lead (ppm)



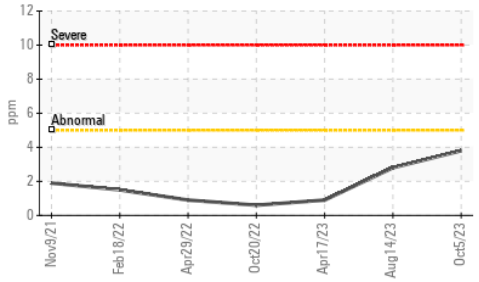
Viscosity @ 40°C



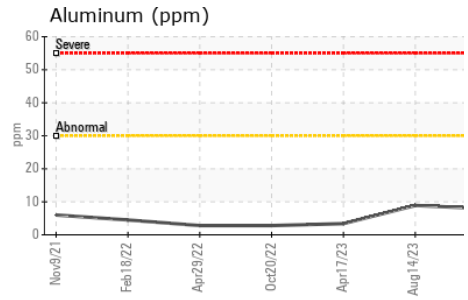
Aluminum (ppm)



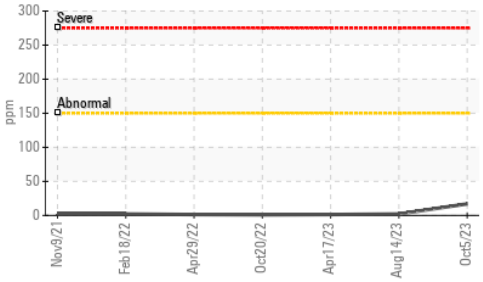
Chromium (ppm)



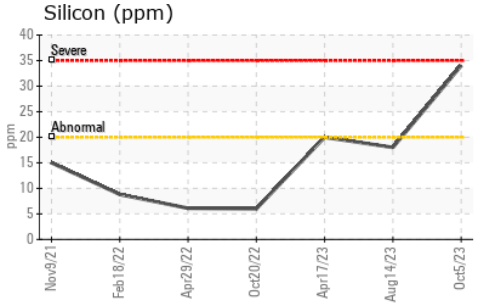
Aluminum (ppm)



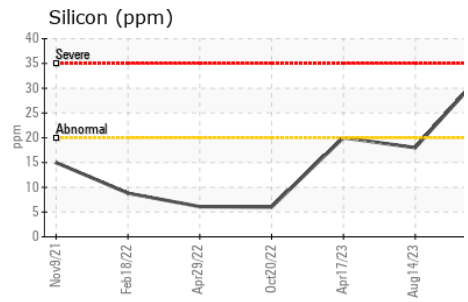
Copper (ppm)



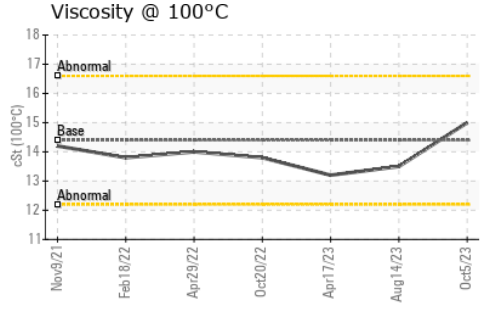
Silicon (ppm)



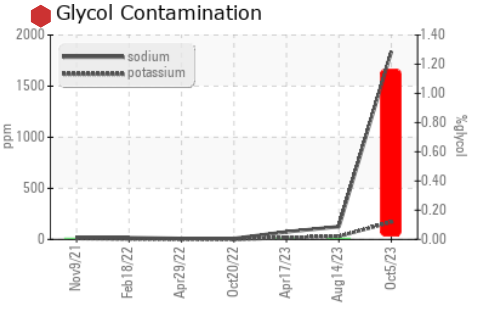
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 737 - Quebec City Hauling**
Sample No. : PC0078561 **Received** : 10 Oct 2023
Lab Number : 02587968 **Diagnosed** : 10 Oct 2023
Unique Number : 5657034 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)

6205 Boul. Wilfrid Hamel,
Quebec City, QC
CA G2E 5G8
Contact: Dave Beaulieu
davebeaulieu@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.