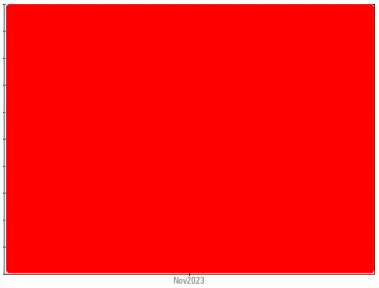
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
OR370
Component
Front Differential
Fluid
SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la source de l`infiltration d`eau. Nous vous recommandons de vérifier tous les endroits par lesquels de la saleté peut pénétrer dans le système. 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

Usure des engrenages. Le très haut indice ferreux (PQ) indique la présence d'une usure importante.

Contamination

Concentration élevée d`eau dans l`huile. Concentration modérée de saleté dans l`huile. Une grande quantité de saleté a provoqué une usure abrasive du composant.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 80W140; nous vous conseillons de vérifier. l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0078149**	---	---
Sample Date		Client Info		**14 Nov 2023**	---	---
Machine Age	hrs	Client Info		**22800**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

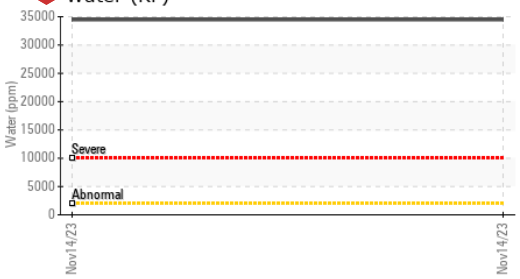
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**8843**	---	---
Iron	ppm	ASTM D5185(m)	>500	**12738**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**96**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>25	**11**	---	---
Lead	ppm	ASTM D5185(m)	>25	**<1**	---	---
Copper	ppm	ASTM D5185(m)	>100	**11**	---	---
Tin	ppm	ASTM D5185(m)	>10	**0**	---	---
Antimony	ppm	ASTM D5185(m)	>5	**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	200	**12**	---	---
Barium	ppm	ASTM D5185(m)	0	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**15**	---	---
Manganese	ppm	ASTM D5185(m)		**111**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**5**	---	---
Calcium	ppm	ASTM D5185(m)	20	**37**	---	---
Phosphorus	ppm	ASTM D5185(m)	1000	**754**	---	---
Zinc	ppm	ASTM D5185(m)	20	**11**	---	---
Sulfur	ppm	ASTM D5185(m)	22000	**14603**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

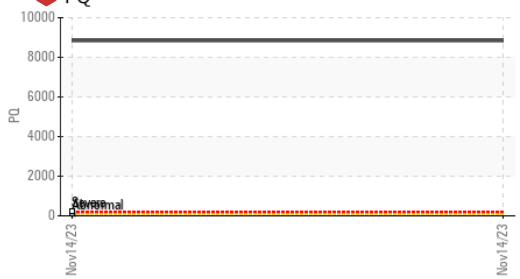
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	**140**	---	---
Sodium	ppm	ASTM D5185(m)	>50	**3**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**2**	---	---
Water	%	ASTM D6304*	>.2	**3.447**	---	---
ppm Water	ppm	ASTM D6304*	>2000	**34473.3**	---	---

OIL ANALYSIS REPORT

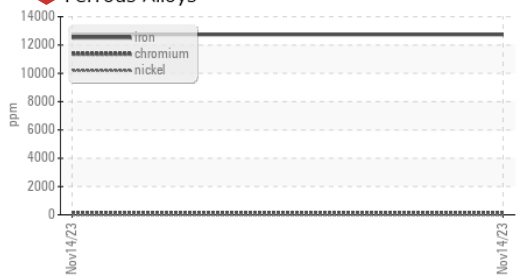
Water (KF)



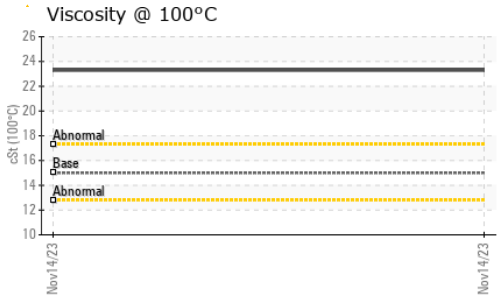
PQ



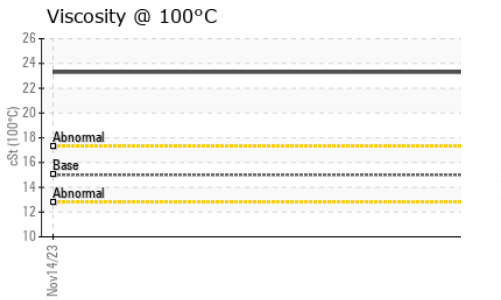
Ferrous Alloys



Viscosity @ 100°C

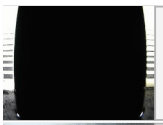


Viscosity @ 100°C



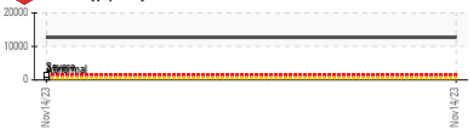
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>.2	▲ **1%**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	135	**287**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	**23.3**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	112	**100**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

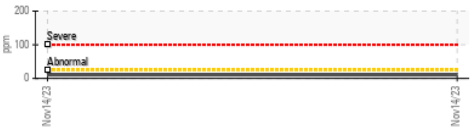
GRAPHS

Iron (ppm)

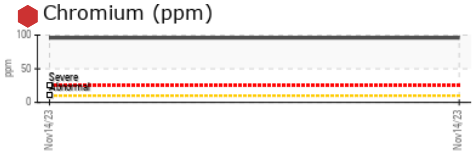


Lead (ppm)

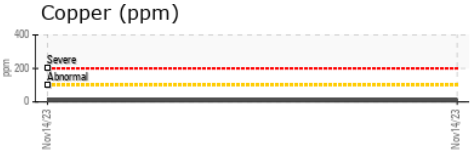
Aluminum (ppm)



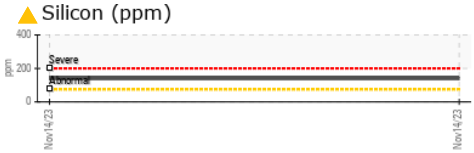
Chromium (ppm)



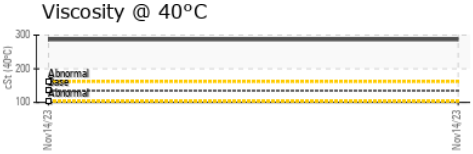
Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 40°C



Water

CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078149
Lab Number : 02597178
Unique Number : 5682258
Test Package : MOB 1 (Additional Tests: KF, KV100, PQ, VI)

Received : 17 Nov 2023
Diagnosed : 20 Nov 2023
Diagnostician : 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 - 742 - Quebec City Solid Waste
5160 Jean-Talon Pierre-Bertrand Bou
Quebec City, QC
CA G2J 1B7
Contact: Jean Audet
Jaudet@matrec.ca
T: (418)624-0080
F: