



Machine Id  
**351043**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

**RECOMMENDATION**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0088180</b>	PC0077968	PC0065488
Sample Date		Client Info		<b>23 Apr 2024</b>	02 Nov 2023	03 Nov 2022
Machine Age	kms	Client Info		<b>457174</b>	448400	430000
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

**WEAR**

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>80	<b>36</b>	78	35
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	2	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>4</b>	5	4
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	4	<1
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	4	2
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

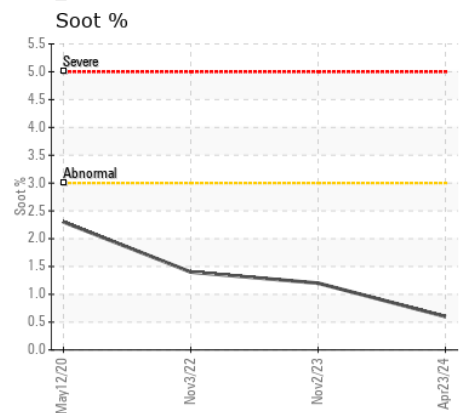
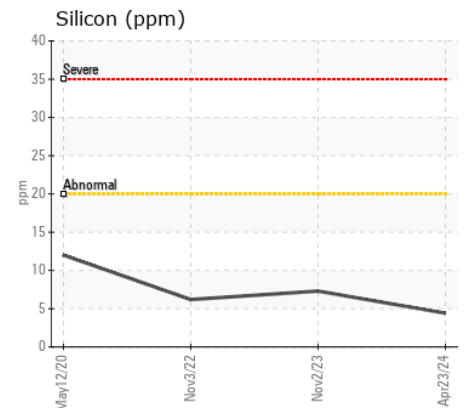
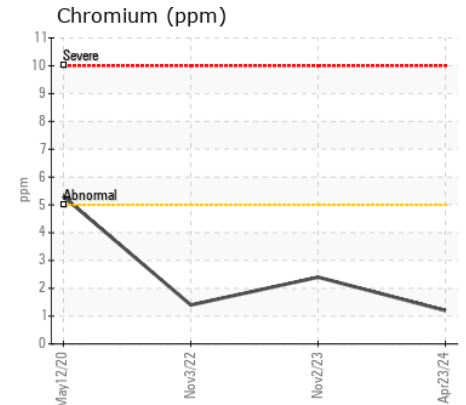
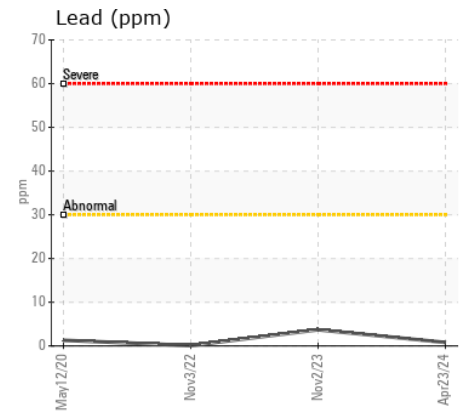
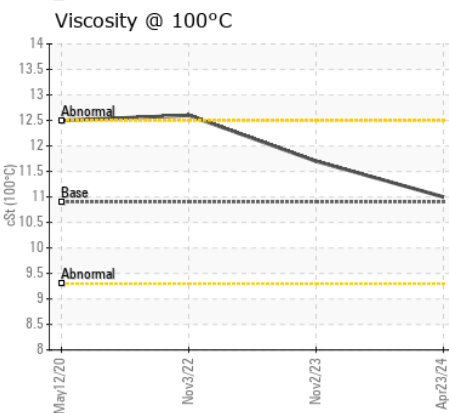
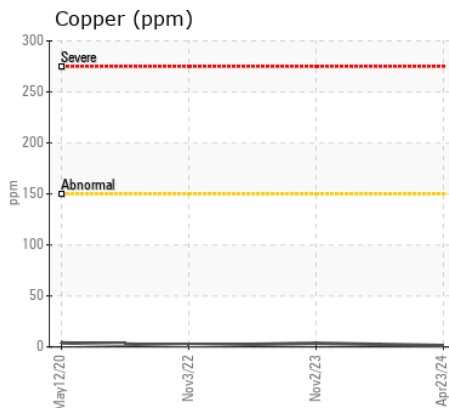
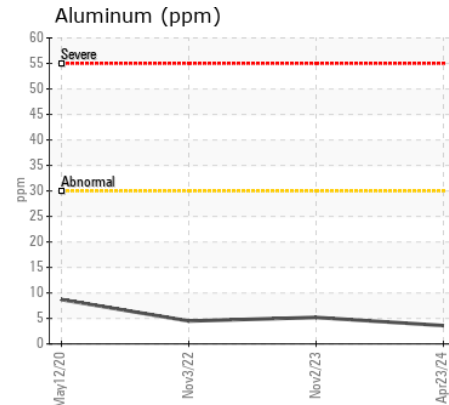
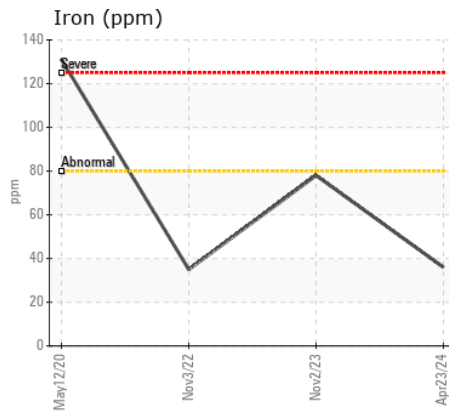
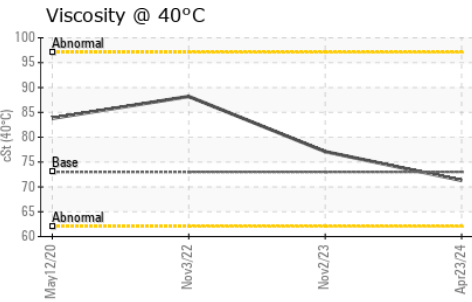
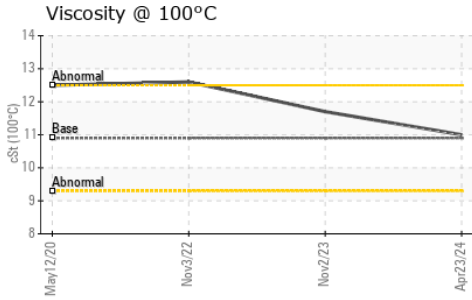
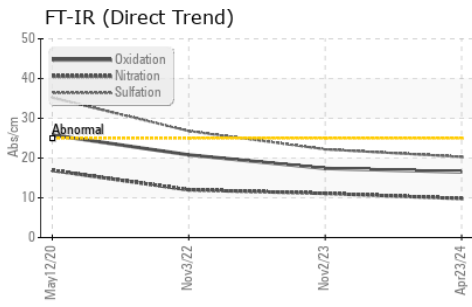
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	7	6
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	20
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	▲ 2.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	ASTM D7844*	>3	<b>0.6</b>	1.2	1.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.8</b>	11.1	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	22.2	26.8
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>6</b>	10	48
Boron	ppm	ASTM D5185(m)	250	<b>8</b>	8	56
Barium	ppm	ASTM D5185(m)	10	<b>1</b>	7	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>61</b>	64	16
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>936</b>	947	172
Calcium	ppm	ASTM D5185(m)	3000	<b>1156</b>	1093	2109
Phosphorus	ppm	ASTM D5185(m)	1150	<b>982</b>	965	1018
Zinc	ppm	ASTM D5185(m)	1350	<b>1191</b>	1224	1150
Sulfur	ppm	ASTM D5185(m)	4250	<b>2493</b>	2439	2800
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	17.4	20.8
Visc @ 40°C	cSt	ASTM D7279(m)	73	<b>71.3</b>	77.1	88.2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>11.0</b>	11.7	12.6
Viscosity Index (VI)	Scale	ASTM D2270*	138	<b>144</b>	145	139



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088180  
**Lab Number** : 02631558  
**Unique Number** : 5772711  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**GFL Environmental - 737 - Quebec City Hauling**  
 6205 Boul. Wilfrid Hamel,  
 Quebec City, QC  
 CA G2E 5G8  
 Contact: Dave Beaulieu  
 davebeaulieu@matrec.ca

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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F: