

Machine Id  
**INTERNATIONAL 825076**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

### RECOMMENDATION

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

Usure de piston.

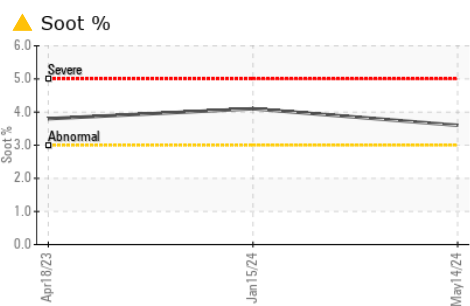
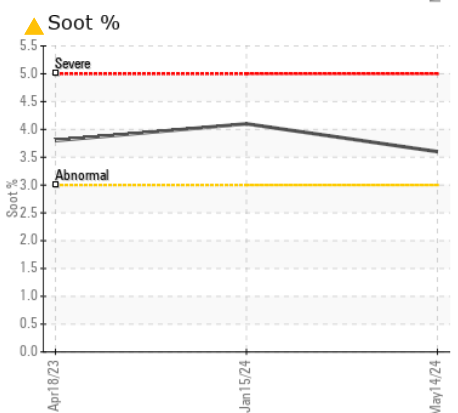
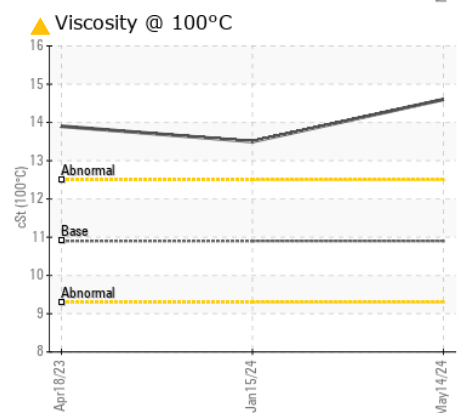
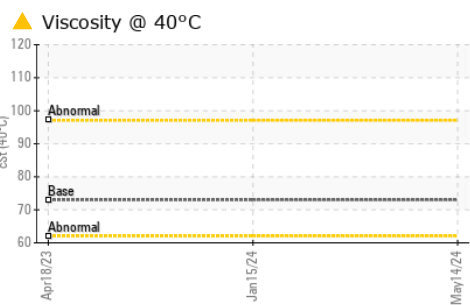
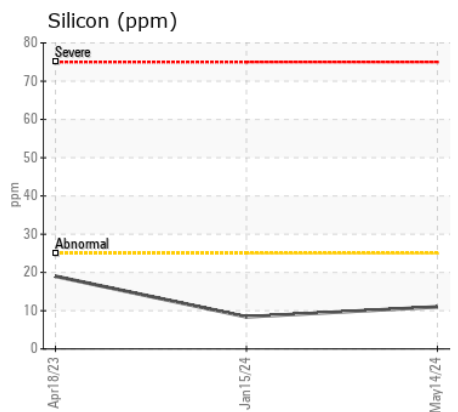
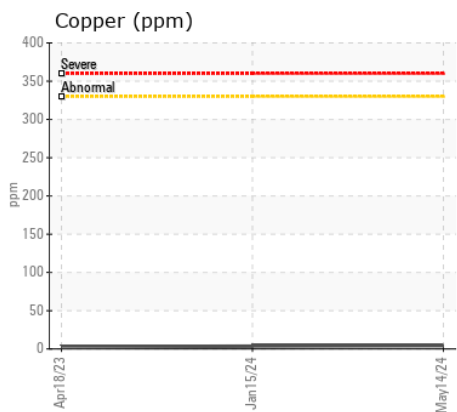
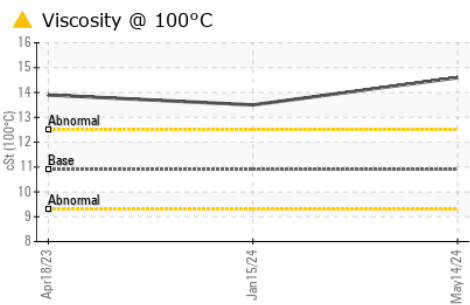
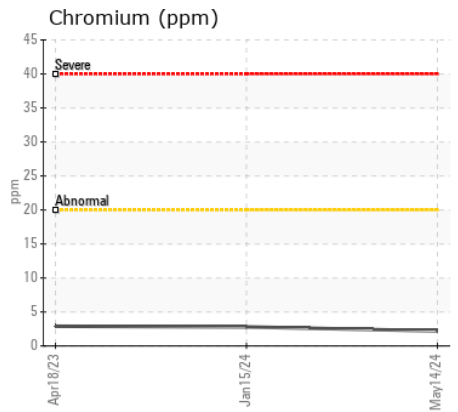
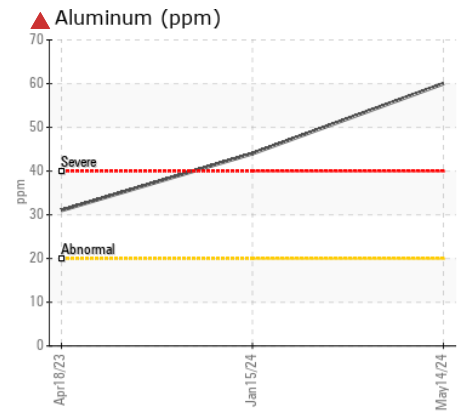
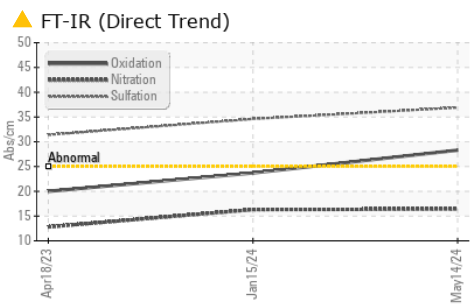
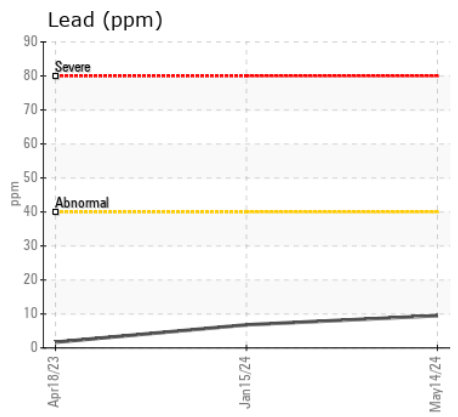
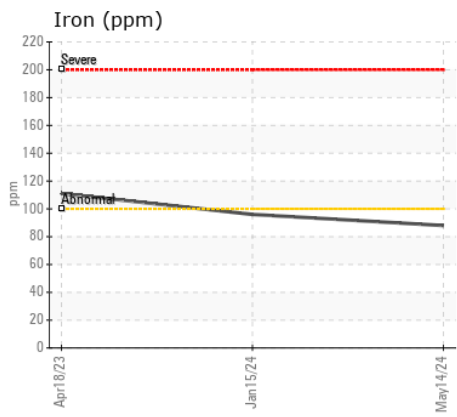
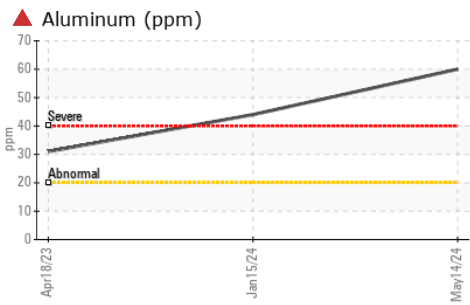
### CONTAMINATION

Légère concentration de carbone/suie dans l'huile.

### FLUID CONDITION

La viscosité de l'huile est supérieure à la normale. La viscosité de l'échantillon se situe dans la portée de l'SAE 15W40; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0088231</b>	GFL0100793	GFL0079071
Sample Date		Client Info		<b>14 May 2024</b>	15 Jan 2024	18 Apr 2023
Machine Age	hrs	Client Info		<b>12879</b>	12579	11869
Oil Age	hrs	Client Info		<b>300</b>	386	0
Filter Age	hrs	Client Info		<b>300</b>	386	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100	<b>88</b>	96	▲ 111
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	3
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	2
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>▲ 60</b>	▲ 44	▲ 31
Lead	ppm	ASTM D5185(m)	>40	<b>10</b>	7	2
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	4	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	8	19
Potassium	ppm	ASTM D5185(m)	>20	<b>9</b>	2	<1
Fuel		WC Method	>2.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>▲ 3.6</b>	▲ 4.1	▲ 3.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>16.4</b>	16.3	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>36.9</b>	▲ 34.6	31.4
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>9</b>	3	5
Boron	ppm	ASTM D5185(m)	250	<b>48</b>	70	152
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>24</b>	116	111
Manganese	ppm	ASTM D5185(m)		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	450	<b>312</b>	855	832
Calcium	ppm	ASTM D5185(m)	3000	<b>2295</b>	1535	1568
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1096</b>	939	932
Zinc	ppm	ASTM D5185(m)	1350	<b>1344</b>	1082	1014
Sulfur	ppm	ASTM D5185(m)	4250	<b>2869</b>	2585	2498
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>28.3</b>	23.7	20.0
Visc @ 40°C	cSt	ASTM D7279(m)	73	<b>▲ 113</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>▲ 14.6</b>	▲ 13.5	▲ 13.9
Viscosity Index (VI)	Scale	ASTM D2270*	138	<b>132</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088231  
**Lab Number** : 02637387  
**Unique Number** : 5786549  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
**Received** : 24 May 2024  
**Tested** : 24 May 2024  
**Diagnosed** : 24 May 2024 - Kevin Marson

**GFL Environmental 791MAT - Matane**  
 29 rue Brilliant  
 Matane, QC  
 CA G4W 0J7  
 Contact: B Berube  
 bberube@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.