



Machine Id
824031

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Nous vous recommandons de vérifier le système d'injection de carburant. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0079076	---	---
Sample Date		Client Info		06 Dec 2023	---	---
Machine Age	kms	Client Info		881768	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

Usure de cylindre, de vilebrequin ou d'arbre à cames. Usure de segment.

PQ		ASTM D8184*	>30	5	---	---
Iron	ppm	ASTM D5185(m)	>110	206	---	---
Chromium	ppm	ASTM D5185(m)	>4	7	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>25	8	---	---
Lead	ppm	ASTM D5185(m)	>45	11	---	---
Copper	ppm	ASTM D5185(m)	>85	4	---	---
Tin	ppm	ASTM D5185(m)	>4	4	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

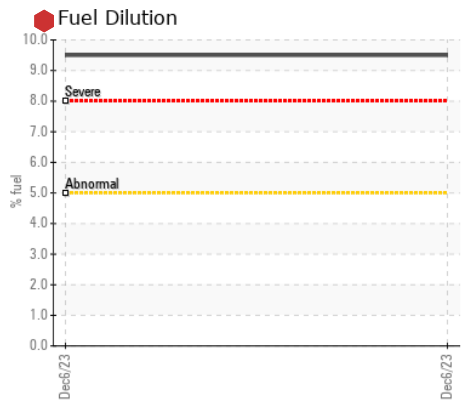
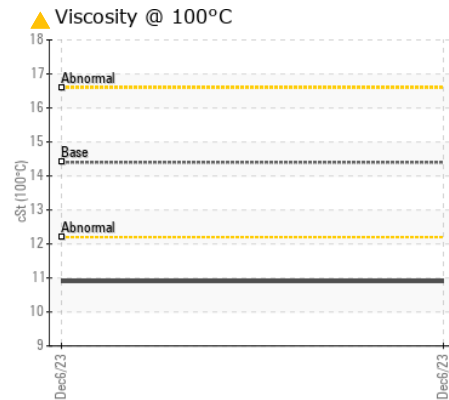
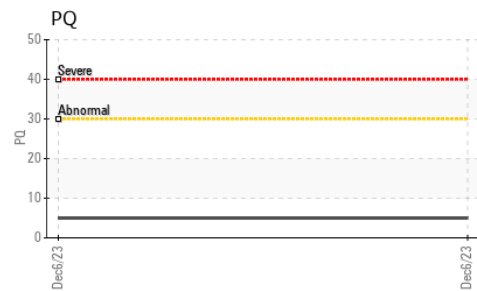
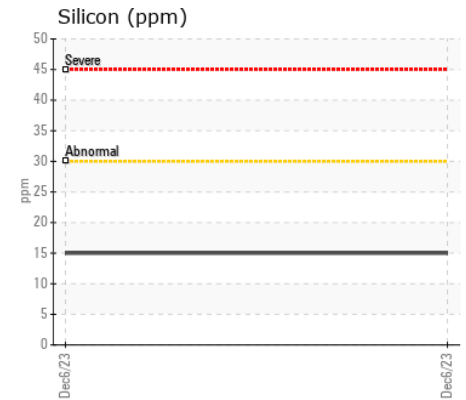
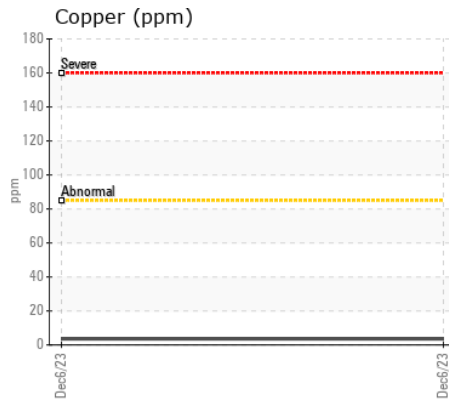
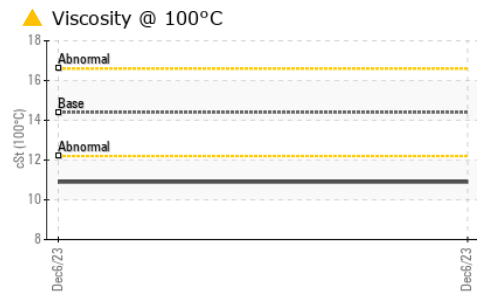
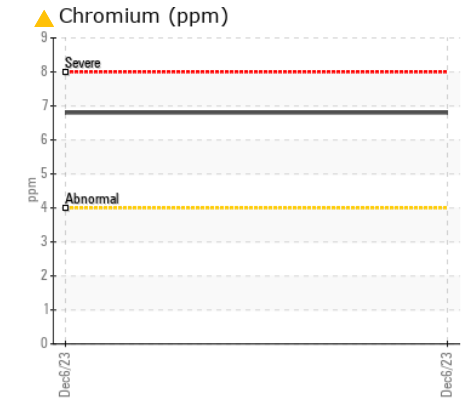
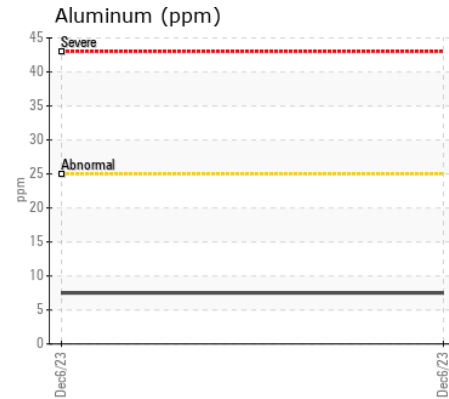
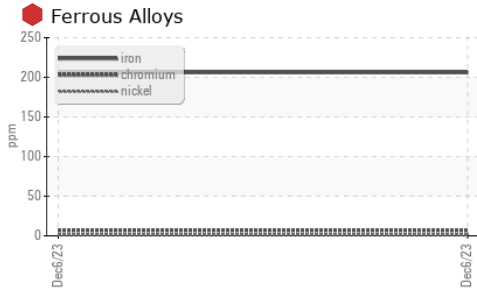
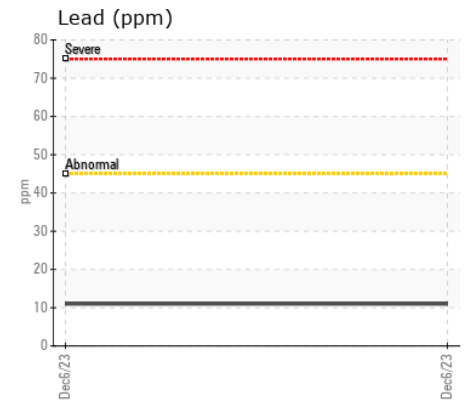
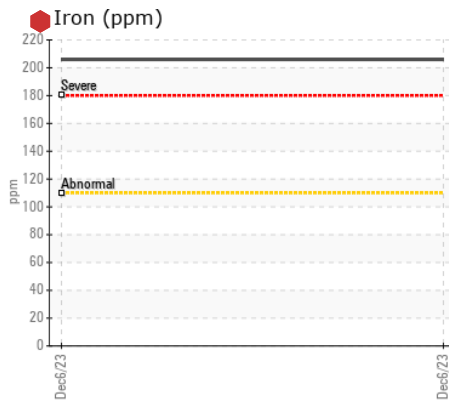
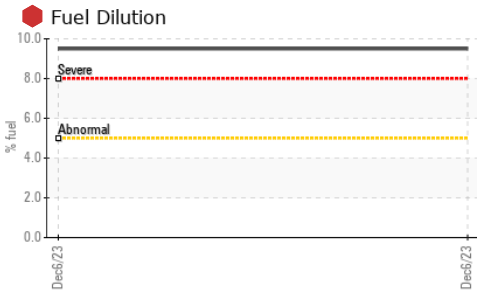
Quantité élevée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

Silicon	ppm	ASTM D5185(m)	>30	15	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel	%	ASTM D7593*	>5	9.5	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	2.8	---	---
Nitration	Abs/cm	ASTM D7624*	>20	19.0	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	34.7	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

Il y a du carburant dans l'huile, ce qui réduit la viscosité. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)	>158	5	---	---
Boron	ppm	ASTM D5185(m)	250	22	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	66	---	---
Manganese	ppm	ASTM D5185(m)		1	---	---
Magnesium	ppm	ASTM D5185(m)	450	476	---	---
Calcium	ppm	ASTM D5185(m)	3000	1281	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	785	---	---
Zinc	ppm	ASTM D5185(m)	1350	953	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2160	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	37.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	10.9	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0079076 **Received** : 07 Dec 2023
Lab Number : 02601394 **Tested** : 08 Dec 2023
Unique Number : 5694479 **Diagnosed** : 08 Dec 2023 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, PQ)

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.

Matrec - 791 - Rimouski
 350 Avenue de L'Industrie
 Rimouski, QC
 CA G5M 1W4
 Contact: Daniel Cloutier
 dacloutier@gflenv.com
 T: (418)724-6447 poste 4142
 F: (418)388-2038