



LIEBHERR

RAPPORT D'ANALYSE D'HUILE



Secteur

(339749)

Identité de la machine

068411-1203

Composant

Moteur diesel

Fluide

PETRO CANADA 10W40 (--- GAL)

USURE

ANORMAL

CONTAMINATION

NORMAL

ÉTAT DU FLUIDE

NORMAL

RECOMMANDATION

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
Numéro d'échant.		Client Info		LH0274127	LH0221490	---
Date d'échant.		Client Info		14 Sep 2023	19 Jan 2022	---
Âge d la Machine	hrs	Client Info		17217	0	---
Âge de l'huile	hrs	Client Info		0	0	---
Âge du filtre	hrs	Client Info		0	0	---
Huile changée		Client Info		Changed	Changed	---
Filtre changé		Client Info		Changed	Changed	---
Statut de l'échant.				ABNORMAL	NORMAL	---

USURE

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

PQ		ASTM D8184*		0	---	---
Fer	ppm	ASTM D5185(m)	>66	▲ 83	17	---
Chrome	ppm	ASTM D5185(m)	>4	3	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titane	ppm	ASTM D5185(m)		0	<1	---
Argent	ppm	ASTM D5185(m)	>3	1	<1	---
Aluminium	ppm	ASTM D5185(m)	>8	▲ 10	5	---
Plomb	ppm	ASTM D5185(m)	>10	5	2	---
Cuivre	ppm	ASTM D5185(m)	>74	▲ 120	9	---
Étain	ppm	ASTM D5185(m)	>4	3	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

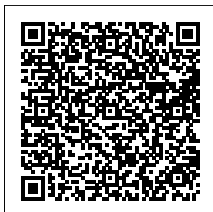
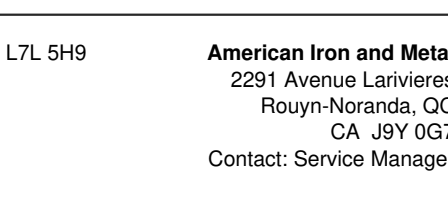
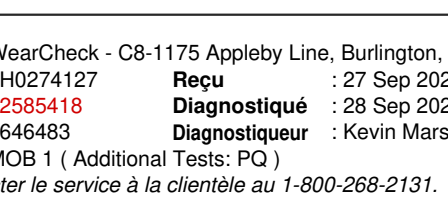
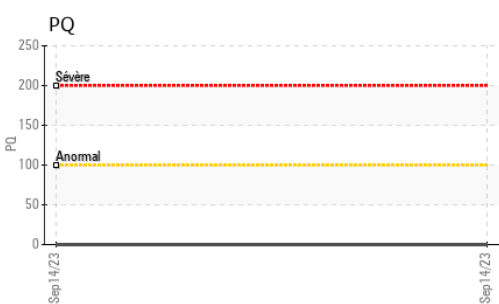
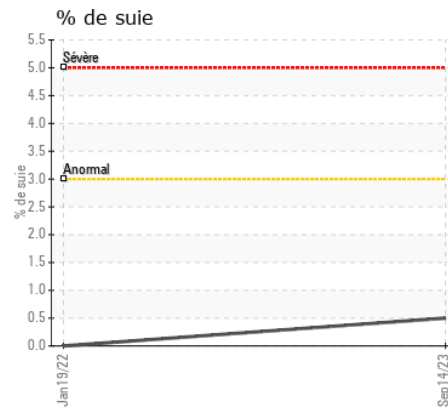
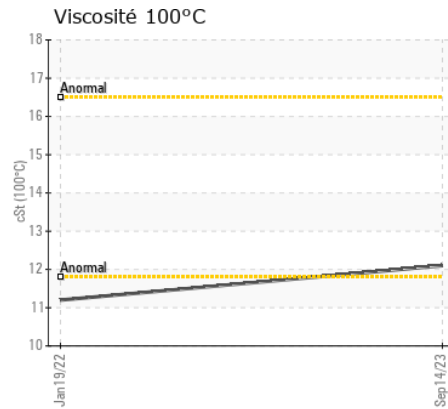
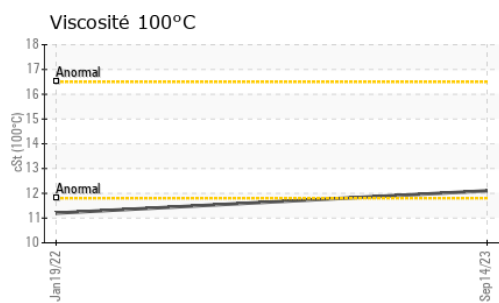
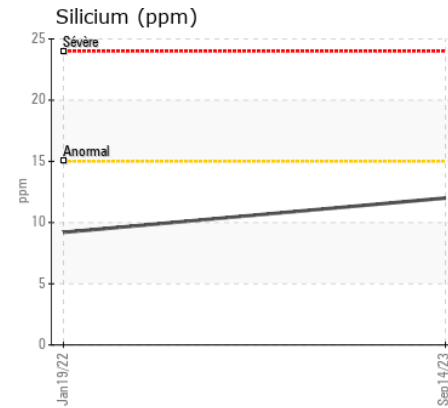
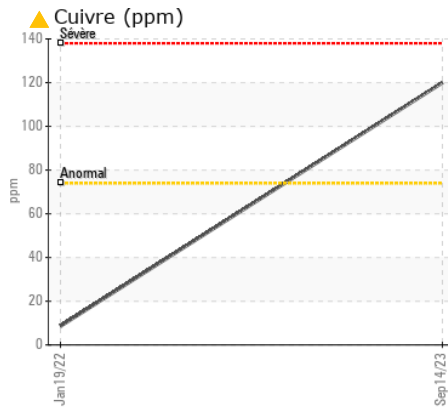
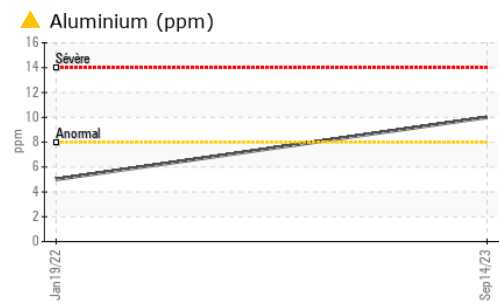
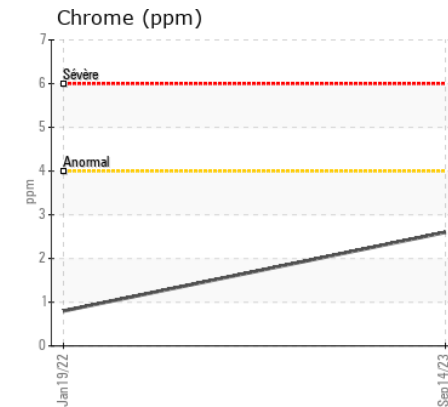
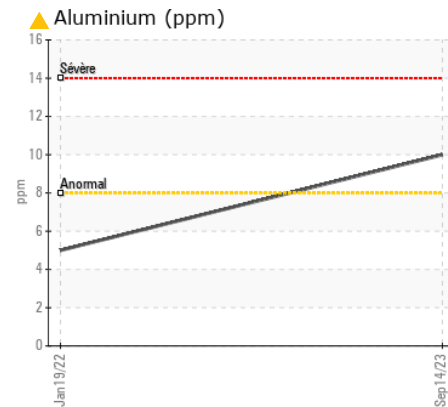
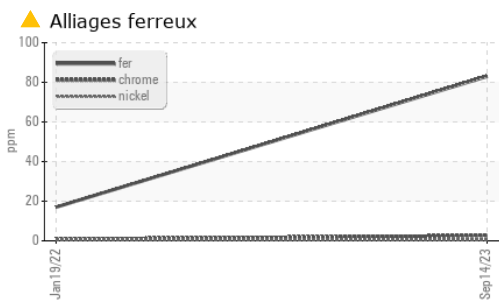
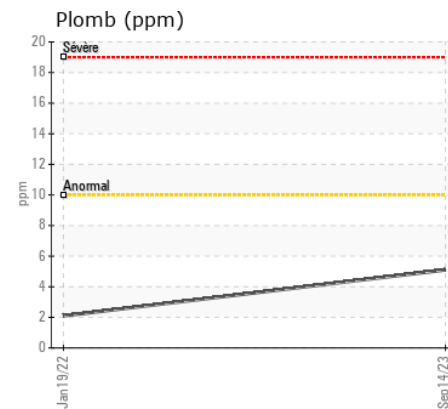
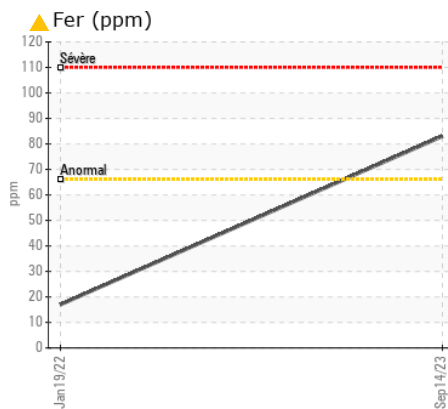
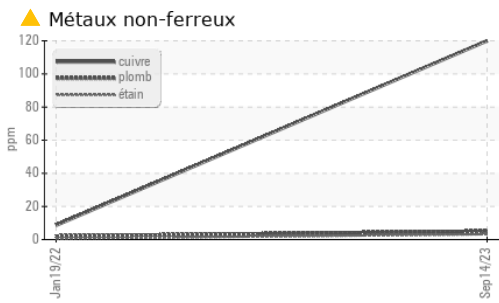
Il n'y a aucun indice de contamination dans l'huile.

Silicium	ppm	ASTM D5185(m)	>15	12	9	---
Potassium	ppm	ASTM D5185(m)	>20	4	3	---
Essence		WC Method	>5	<1.0	0.5	---
Glycol		WC Method		NEG	NEG	---
% de suie	%	ASTM D7844*	>3	0.5	0	---
Nitration	Abs/cm	ASTM D7624*	>20	15.5	5.8	---
Sulfatation	Abs/.1mm	ASTM D7415*	>30	22.5	15.5	---
Eau émulsifiée	scalar	Visual*	>0.2	NEG	NEG	---

ÉTAT DU FLUIDE

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)	>20	10	15	---
Bore	ppm	ASTM D5185(m)		21	91	---
Baryum	ppm	ASTM D5185(m)		8	19	---
Molybdène	ppm	ASTM D5185(m)		59	48	---
Manganèse	ppm	ASTM D5185(m)		1	<1	---
Magnésium	ppm	ASTM D5185(m)		1076	948	---
Calcium	ppm	ASTM D5185(m)		936	1464	---
Phosphore	ppm	ASTM D5185(m)		1011	1070	---
Zinc	ppm	ASTM D5185(m)		1244	1231	---
Soufre	ppm	ASTM D5185(m)		2747	2870	---
Oxydation	Abs/.1mm	ASTM D7414*	>25	23.2	11.3	---
Visc 100°C	cSt	ASTM D7279(m)		12.1	11.2	---



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : LH0274127 **Reçu** : 27 Sep 2023
N° de laboratoire : 02585418 **Diagnostiqué** : 28 Sep 2023
Numéro unique : 5646483 **Diagnostiqueur** : Kevin Marson
Analyse : MOB 1 (Additional Tests: PQ)

American Iron and Metal
 2291 Avenue Larivieres
 Rouyn-Noranda, QC
 CA J9Y 0G7
 Contact: Service Manager

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

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F: