



USURE	ANORMAL
CONTAMINATION	NORMAL
ÉTAT DU FLUIDE	NORMAL

Identité de la machine

5016

Composant

Moteur diesel

Fluide

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		PC0071019	PC0067623	PC0066641
Date d'échant.		Client Info		08 Aug 2023	11 Jan 2023	09 Aug 2022
Âge d la Machine	hrs	Client Info		10279	9983	9521
Âge de l'huile	hrs	Client Info		0	0	0
Âge du filtre	hrs	Client Info		0	0	0
Huile changée		Client Info		N/A	N/A	N/A
Filtre changé		Client Info		N/A	N/A	N/A
Statut de l'échant.				ABNORMAL	ABNORMAL	NORMAL

USURE

Aluminum ppm levels are abnormal. Piston wear is indicated.

Fer	ppm	ASTM D5185(m)	>100	26	24	17
Chrome	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titane	ppm	ASTM D5185(m)		0	0	<1
Argent	ppm	ASTM D5185(m)	>3	0	0	0
Aluminium	ppm	ASTM D5185(m)	>20	▲ 33	▲ 23	14
Plomb	ppm	ASTM D5185(m)	>40	0	<1	0
Cuivre	ppm	ASTM D5185(m)	>330	3	2	2
Étain	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Métal blanc	scalar	Visual*	NONE	NONE	NONE	---
Bronze	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

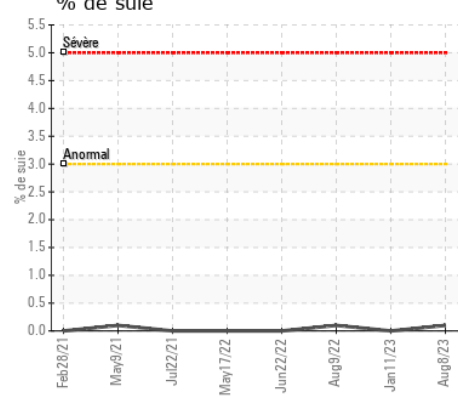
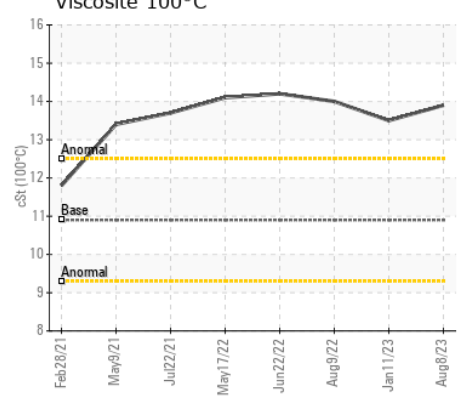
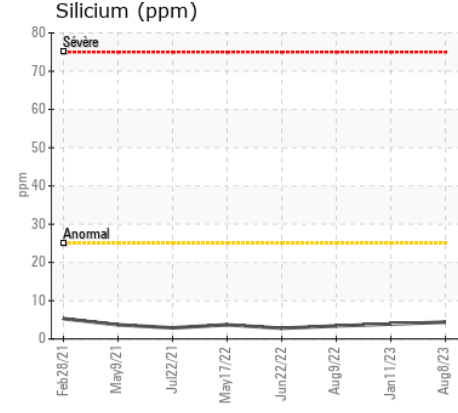
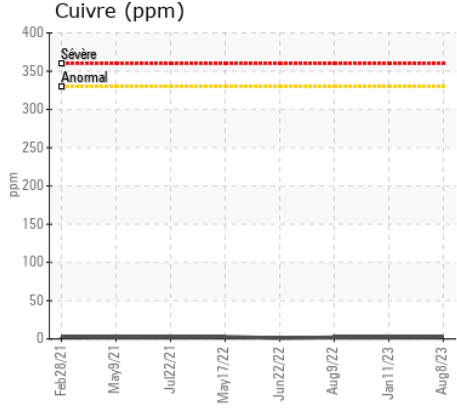
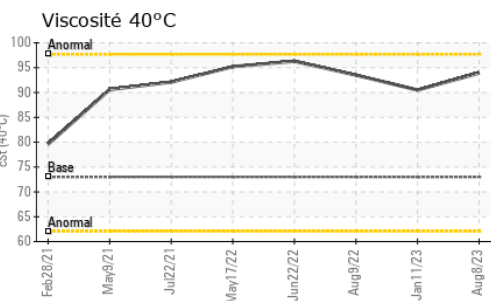
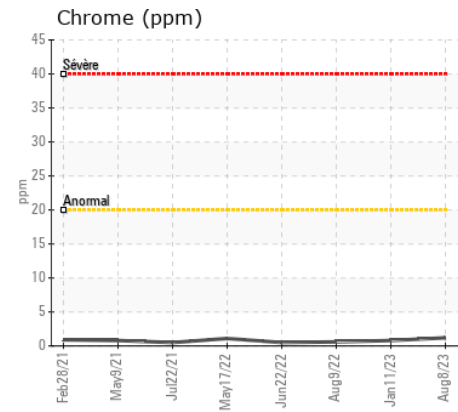
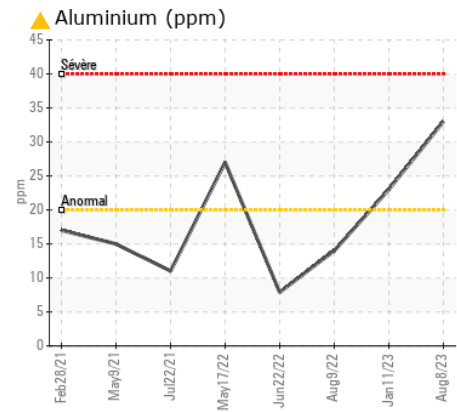
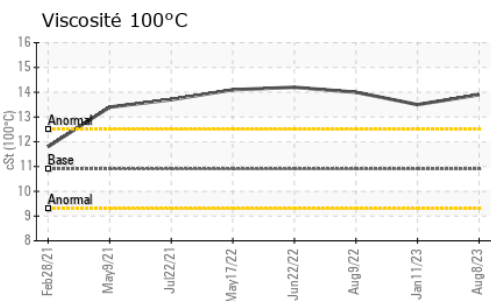
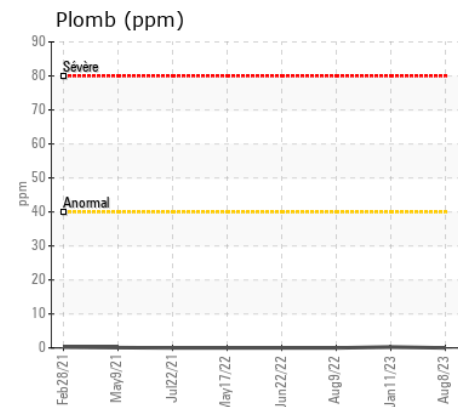
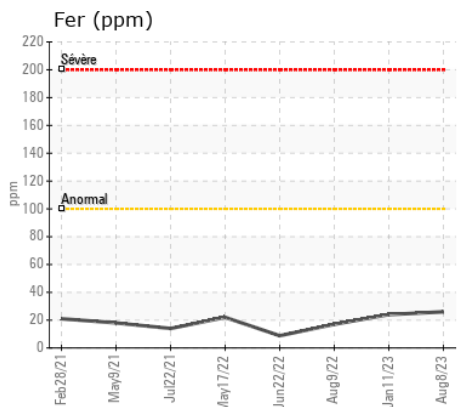
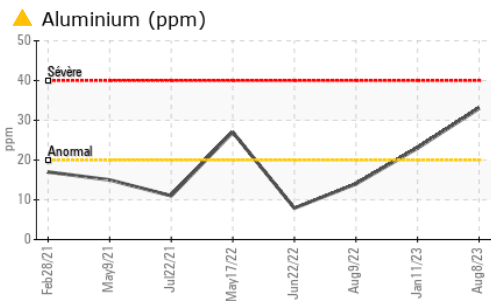
The water content is negligible. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	4	4	3
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
Essence		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
% de suie	%	ASTM D7844*	>3	0.1	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.1	7.6	7.1
Sulfatation	Abs/.1mm	ASTM D7415*	>30	18.5	19.8	19.3
Limon	scalar	Visual*	NONE	VLITE	VLITE	---
Débris	scalar	Visual*	NONE	NONE	NONE	---
Saleté	scalar	Visual*	NONE	NONE	NONE	---
Apparence	scalar	Visual*	NORML	NORML	NORML	---
Odeur	scalar	Visual*	NORML	NORML	NORML	NORML
Eau émulsifiée	scalar	Visual*	>0.2	NEG	NEG	NEG

ÉTAT DU FLUIDE

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		3	3	4
Bore	ppm	ASTM D5185(m)	250	2	<1	2
Baryum	ppm	ASTM D5185(m)	10	0	0	0
Molybdène	ppm	ASTM D5185(m)	100	56	55	57
Manganèse	ppm	ASTM D5185(m)		<1	<1	<1
Magnésium	ppm	ASTM D5185(m)	450	934	891	948
Calcium	ppm	ASTM D5185(m)	3000	1058	1161	1109
Phosphore	ppm	ASTM D5185(m)	1150	1045	1043	1003
Zinc	ppm	ASTM D5185(m)	1350	1164	1172	1202
Soufre	ppm	ASTM D5185(m)	4250	2564	2602	2651
Oxydation	Abs/.1mm	ASTM D7414*	>25	14.1	14.8	14.5
Visc 40°C	cSt	ASTM D7279(m)	73	93.9	90.5	93.5
Visc 100°C	cSt	ASTM D7279(m)	10.9	13.9	13.5	14.0
Indice de viscosité (VI)	Scale	ASTM D2270*	138	151	150	153



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **LES ENTREPRISES MICHAUVILLE INC.**
N° d'échantillon : PC0071019 **Reçu** : 09 Aug 2023 270 RUE BRUNET
N° de laboratoire : 02574734 **Diagnostiqué** : 09 Aug 2023 MONT ST-HILAIRE, QC
Numéro unique : 5619785 **Diagnostiqueur** : Kevin Marson CA J3H 0M6
Analyse : MOB 1 (Additional Tests: KV40, VI, Visual) Contact: Martin Trudel

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