



# RAPPORT D'ANALYSE D'HUILE

USURE	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
ÉTAT DU FLUIDE	<b>NORMAL</b>

Secteur

[98879]

Identité de la machine

**NDMC (S/N 73956688)**

Composant

**Moteur diesel**

Fluide

**VALVOLINE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>CU0020715</b>	CU0018900	CU0018606
Date d'échant.		Client Info		<b>10 Oct 2023</b>	10 Nov 2022	09 Nov 2021
Âge d la Machine	hrs	Client Info		<b>209</b>	200	189
Âge de l'huile	hrs	Client Info		<b>0</b>	0	0
Âge du filtre	hrs	Client Info		<b>0</b>	0	0
Huile changée		Client Info		<b>Changed</b>	Changed	Changed
Filtre changé		Client Info		<b>Changed</b>	Changed	Changed
Statut de l'échant.				<b>NORMAL</b>	ABNORMAL	NORMAL

## USURE

Metal levels are typical for a new component breaking in.

Fer	ppm	ASTM D5185(m)	>90	<b>2</b>	2	2
Chrome	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titane	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Argent	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Métal blanc	scalar	Visual*	NONE	<b>NONE</b>	---	---
Bronze	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

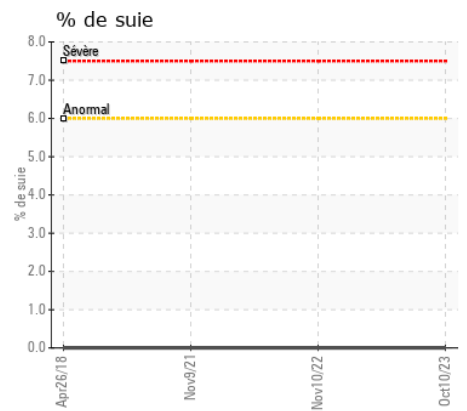
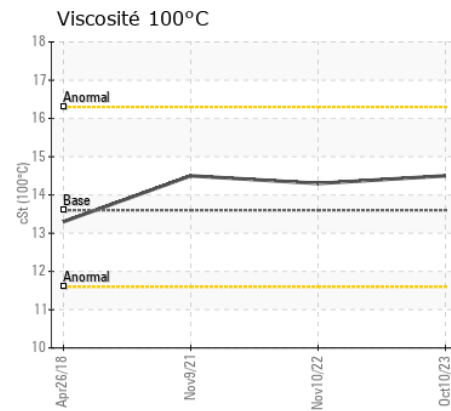
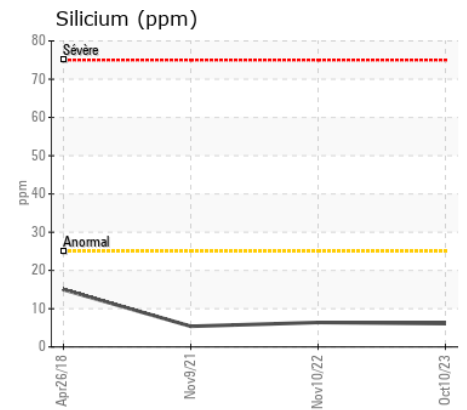
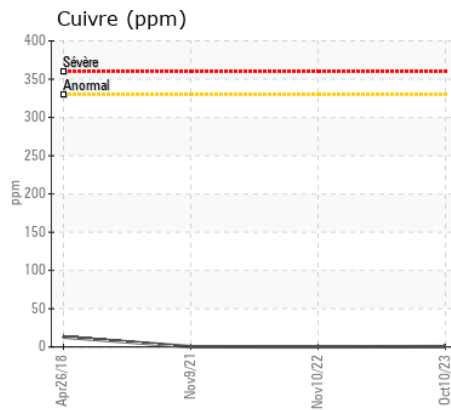
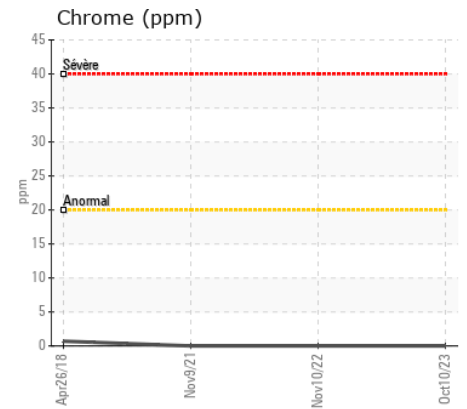
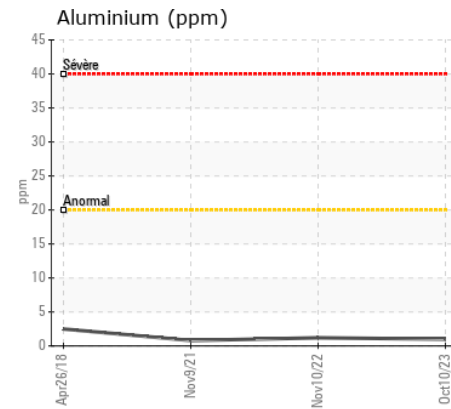
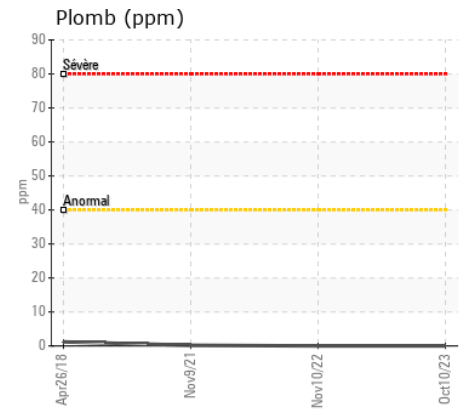
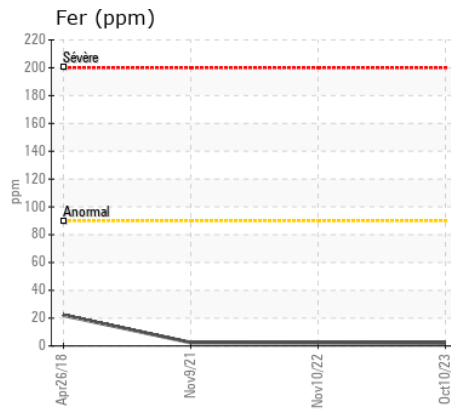
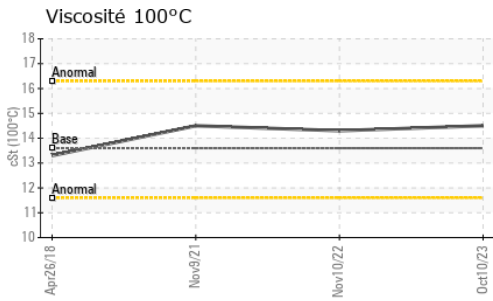
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>6</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Essence		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol		WC Method		<b>NEG</b>	0.0	NEG
% de suie	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.3</b>	6.7	3.3
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	21.6	13.8
Limon	scalar	Visual*	NONE	<b>NONE</b>	---	---
Débris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Saleté	scalar	Visual*	NONE	<b>NONE</b>	---	---
Apparence	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odeur	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	.2%	NEG

## ÉTAT DU FLUIDE

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	4	3
Bore	ppm	ASTM D5185(m)	39	<b>46</b>	47	60
Baryum	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Molybdène	ppm	ASTM D5185(m)	49	<b>44</b>	43	45
Manganèse	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	616	<b>784</b>	760	660
Calcium	ppm	ASTM D5185(m)	1554	<b>1135</b>	1206	1363
Phosphore	ppm	ASTM D5185(m)	899	<b>697</b>	763	991
Zinc	ppm	ASTM D5185(m)	1069	<b>818</b>	817	1113
Soufre	ppm	ASTM D5185(m)	2624	<b>1911</b>	1974	2497
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	17.8	6.6
Visc 100°C	cSt	ASTM D7279(m)	13.6	<b>14.5</b>	14.3	14.5



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : CU0020715  
**N° de laboratoire** : 02588187  
**Numéro unique** : 5657253  
**Analyse** : MOB 1 ( Additional Tests: Visual )

**Reçu** : 11 Oct 2023  
**Diagnostiqué** : 11 Oct 2023  
**Diagnostiqueur** : Kevin Marson

**CUMMINS EASTERN CANADA LP**  
 3189 SWANSEA CRESCENT  
 OTTAWA, ON  
 CA K1G 3W5  
 Contact: Cindy Harrison  
 cindy.harrison@cummins.com

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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