



# RAPPORT D'ANALYSE D'HUILE

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

Secteur  
**PWGSC [99747]**  
 Identité de la machine  
**UNIT 2 (S/N 7A70867)**

Composant  
**Moteur diesel**  
 Fluide  
**SHELL ROTELLA T 15W40 (--- GAL)**

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>CU0019807</b>	CU0020268	CU0019793
Date d'échant.		Client Info		<b>10 Jul 2023</b>	01 May 2023	26 Feb 2023
Âge d la Machine	hrs	Client Info		<b>1172</b>	1164	354
Âge de l'huile	hrs	Client Info		<b>2</b>	0	0
Âge du filtre	hrs	Client Info		<b>0</b>	0	0
Huile changée		Client Info		<b>N/A</b>	N/A	N/A
Filtre changé		Client Info		<b>N/A</b>	N/A	N/A
Statut de l'échant.				<b>NORMAL</b>	NORMAL	NORMAL

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>3</b>	3	3
Chrome	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titane	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Argent	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Plomb	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

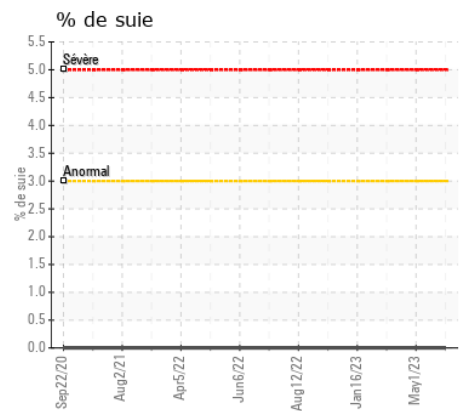
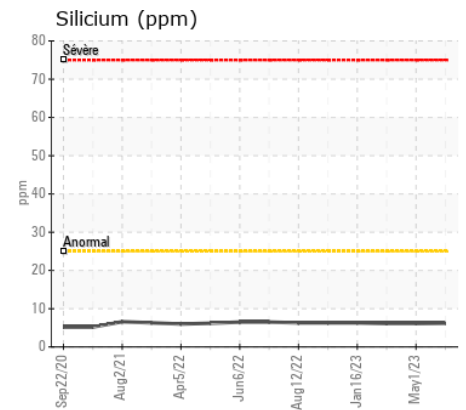
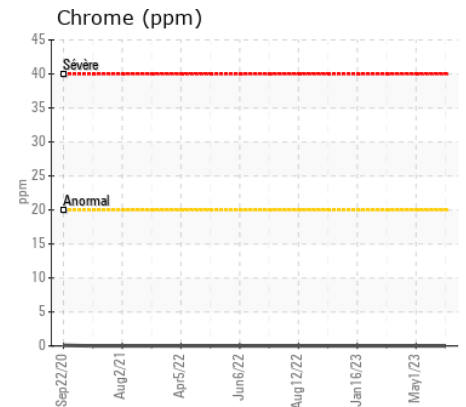
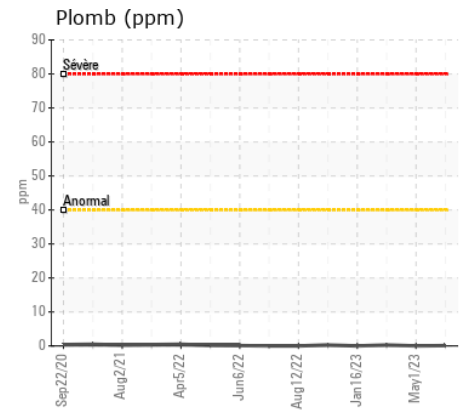
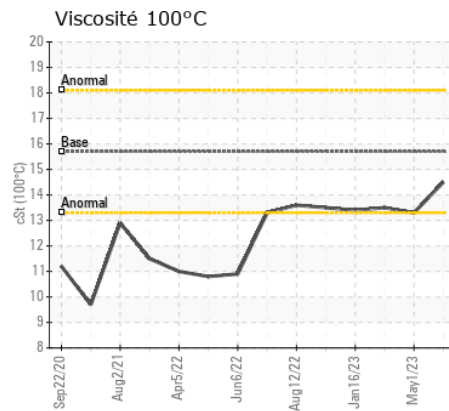
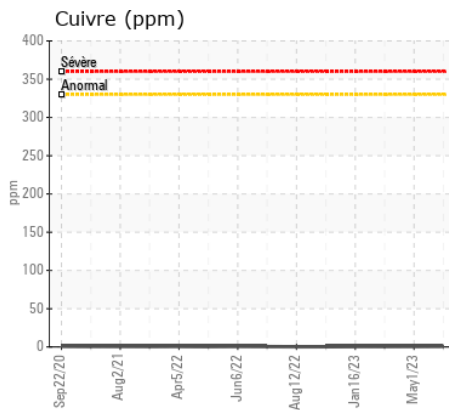
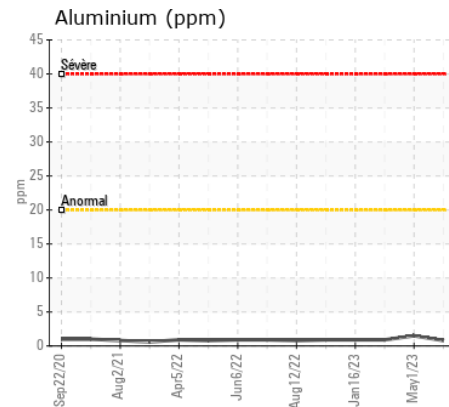
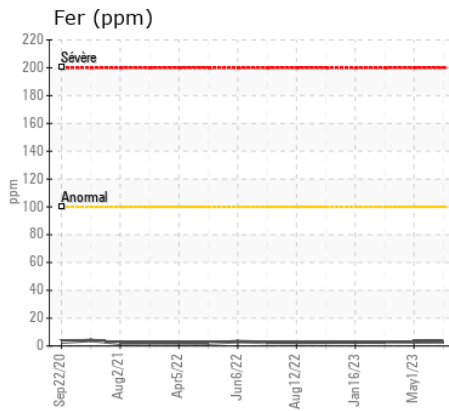
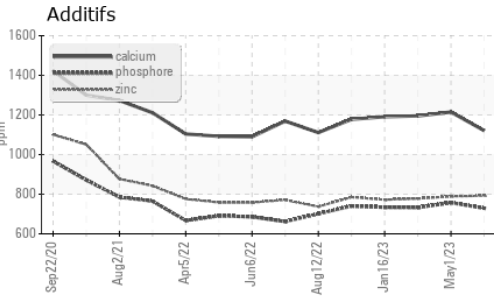
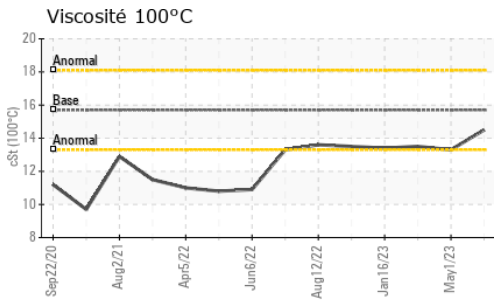
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>6</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.1</b>	6.3	4.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	20.1	17.8
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

Additive levels indicate the addition of a different brand, or type of oil.  
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Bore	ppm	ASTM D5185(m)	35	<b>44</b>	47	46
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	0	<b>48</b>	45	45
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	10	<b>789</b>	767	750
Calcium	ppm	ASTM D5185(m)	2340	<b>1121</b>	1215	1195
Phosphore	ppm	ASTM D5185(m)	1110	<b>729</b>	757	733
Zinc	ppm	ASTM D5185(m)	1210	<b>792</b>	789	778
Soufre	ppm	ASTM D5185(m)	3890	<b>1884</b>	1972	1941
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	16.6	10.0
Visc 100°C	cSt	ASTM D7279(m)	15.7	<b>14.5</b>	13.3	13.5



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : CU0019807  
**N° de laboratoire** : 02571055  
**Numéro unique** : 5616106  
**Analyse** : MOB 1

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

**Reçu** : 20 Jul 2023  
**Diagnostiqué** : 21 Jul 2023  
**Diagnostiqueur** : Kevin Marson

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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