



Identité de la machine

**1228**

Composant

**Moteur diesel**

Fluide

**DIESEL ENGINE OIL SAE 5W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>PC0083890</b>	PC0066548	PC00665843
Date d'échant.		Client Info		<b>03 Dec 2023</b>	24 Apr 2023	02 Nov 2022
Âge d la Machine	hrs	Client Info		<b>1889</b>	839	393
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>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>20</b>	19	40
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	<1
Aluminium	ppm	ASTM D5185(m)	>20	<b>12</b>	8	12
Plomb	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>3</b>	4	14
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	1
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**

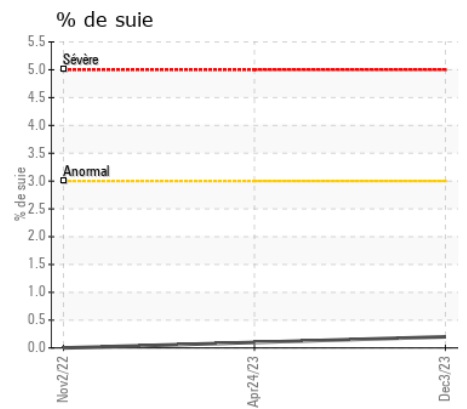
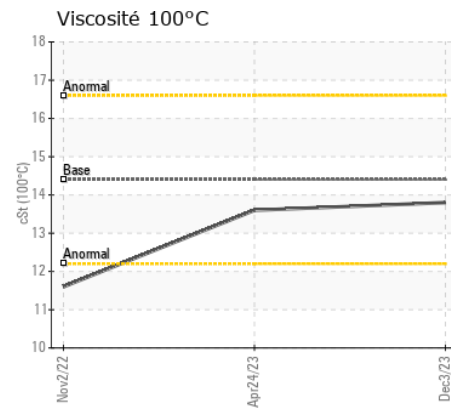
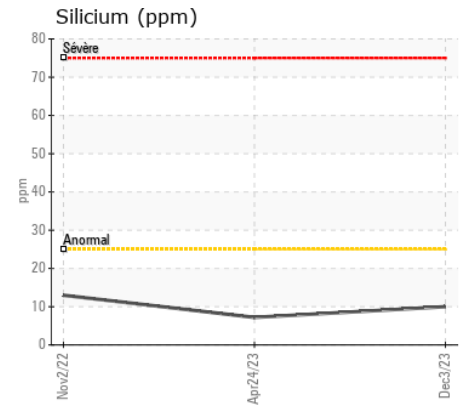
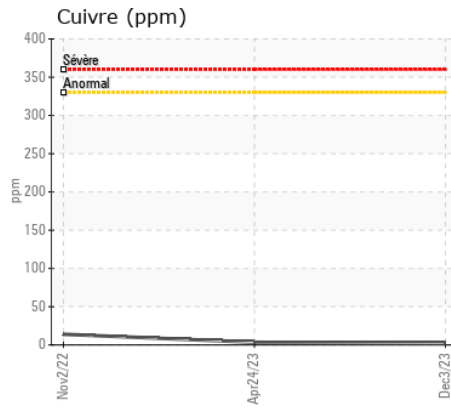
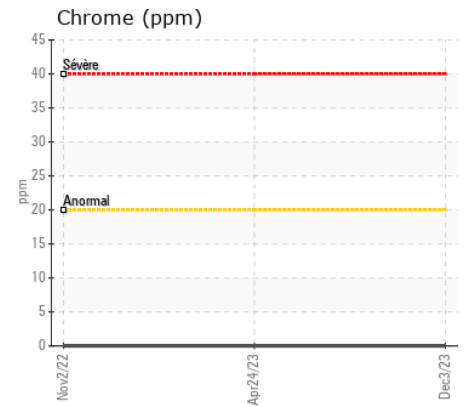
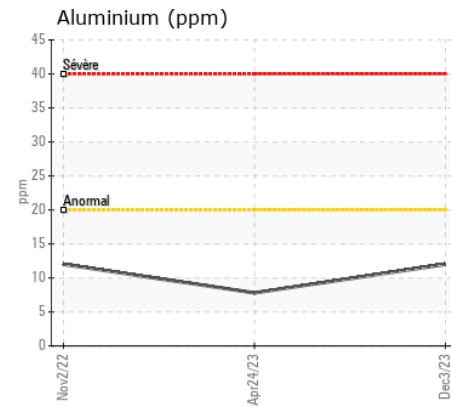
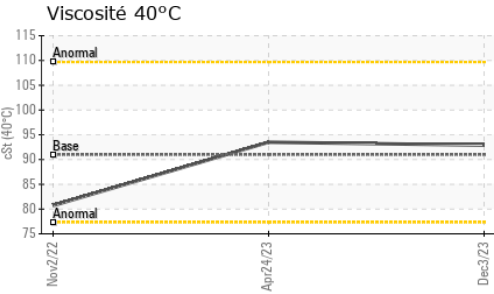
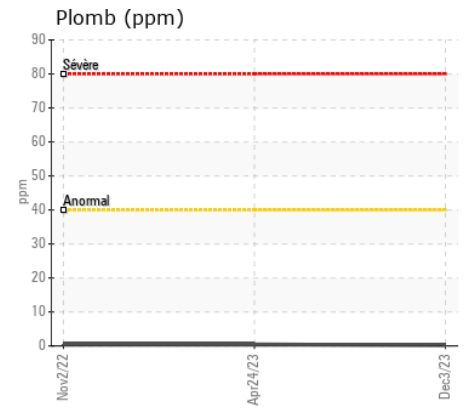
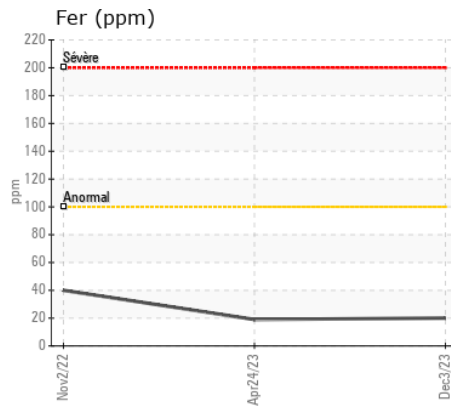
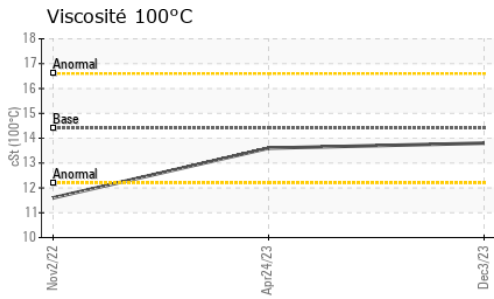
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>10</b>	7	13
Potassium	ppm	ASTM D5185(m)	>20	<b>28</b>	22	43
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	1
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>3	<b>0.2</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	8.4	9.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	19.5	20.5
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>	NEG	NEG

**ÉTAT DU FLUIDE**

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

Sodium	ppm	ASTM D5185(m)	>44	<b>2</b>	2	4
Bore	ppm	ASTM D5185(m)	250	<b>2</b>	6	55
Baryum	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	0	1
Molybdène	ppm	ASTM D5185(m)	100	<b>58</b>	55	5
Manganèse	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Magnésium	ppm	ASTM D5185(m)	450	<b>945</b>	943	715
Calcium	ppm	ASTM D5185(m)	3000	<b>1096</b>	1173	1352
Phosphore	ppm	ASTM D5185(m)	1150	<b>999</b>	1080	781
Zinc	ppm	ASTM D5185(m)	1350	<b>1193</b>	1175	808
Soufre	ppm	ASTM D5185(m)	4250	<b>2494</b>	2707	2585
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>16.9</b>	15.6	15.2
Visc 40°C	cSt	ASTM D7279(m)	91	<b>92.9</b>	93.5	80.7
Visc 100°C	cSt	ASTM D7279(m)	14.4	<b>13.8</b>	13.6	11.6
Indice de viscosité (VI)	Scale	ASTM D2270*	164	<b>151</b>	146	135



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUDVILLE INC.  
**N° d'échantillon** : PC0083890 **Reçu** : 04 Dec 2023  
**N° de laboratoire** : 02600396 **Diagnostiqué** : 04 Dec 2023  
**Numéro unique** : 5685476 **Diagnostiqueur** : Wes Davis  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI, Visual )

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.

270 RUE BRUNET  
MONT ST-HILAIRE, QC  
CA J3H 0M6  
Contact: Martin Trudel  
mtrudel@michaudville.com

T:  
F: