



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

## MICHAUDVILLE

Identité de la machine

### 1203

Composant

### Moteur diesel

Fluid

### DIESEL ENGINE OIL 10W40 (--- 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>PC0082952</b>	PC0078439	PC0077381
Date d'échant.		Client Info		<b>04 Jun 2024</b>	03 Dec 2023	30 Aug 2023
Âge d la Machine	hrs	Client Info		<b>12480</b>	11974	11505
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>15</b>	12	8
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	3
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>3</b>	2	3
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

There is no indication of any contamination in the oil.

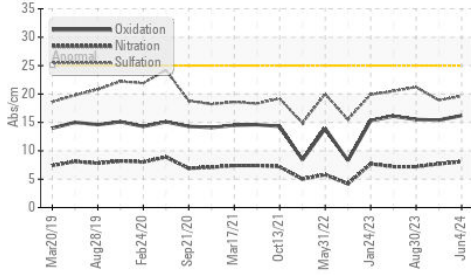
Silicium	ppm	ASTM D5185(m)	>25	<b>5</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	4
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>3	<b>0.1</b>	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	7.7	7.2
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>19.6</b>	18.9	21.2
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

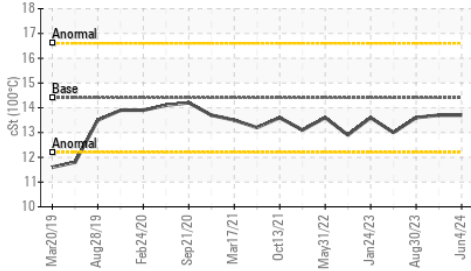
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	2
Bore	ppm	ASTM D5185(m)	250	<b>1</b>	1	2
Baryum	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdène	ppm	ASTM D5185(m)	100	<b>58</b>	57	57
Manganèse	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnésium	ppm	ASTM D5185(m)	450	<b>905</b>	927	933
Calcium	ppm	ASTM D5185(m)	3000	<b>1152</b>	1051	1166
Phosphore	ppm	ASTM D5185(m)	1150	<b>1041</b>	964	1084
Zinc	ppm	ASTM D5185(m)	1350	<b>1188</b>	1160	1209
Soufre	ppm	ASTM D5185(m)	4250	<b>2518</b>	2440	2668
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>16.2</b>	15.4	15.5
Visc 40°C	cSt	ASTM D7279(m)	105	<b>92.4</b>	93.1	91.1
Visc 100°C	cSt	ASTM D7279(m)	14.4	<b>13.7</b>	13.7	13.6
Indice de viscosité (VI)	Scale	ASTM D2270*	126	<b>150</b>	149	151

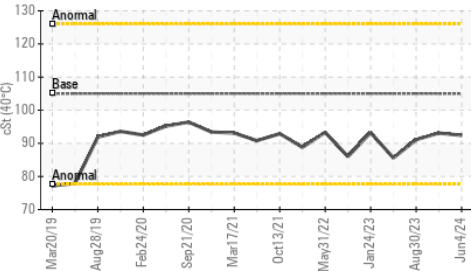
**FT-IR (Direct Trend)**



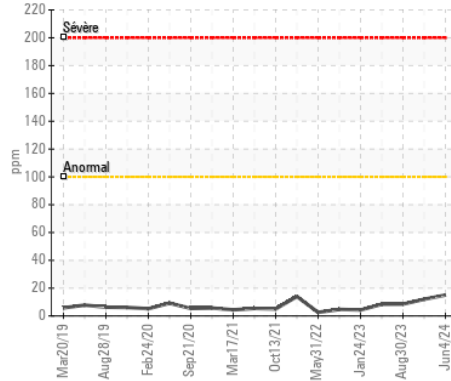
**Viscosité 100°C**



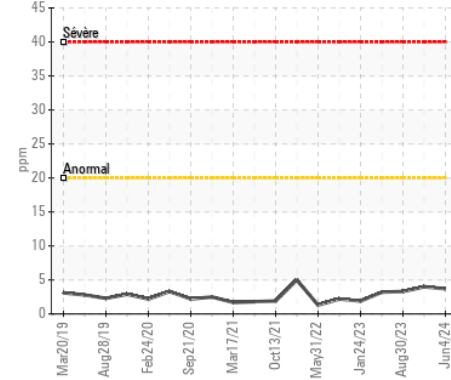
**Viscosité 40°C**



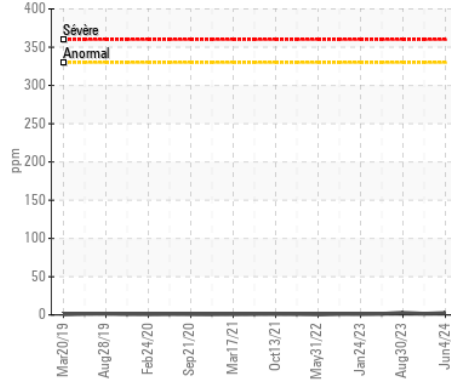
**Fer (ppm)**



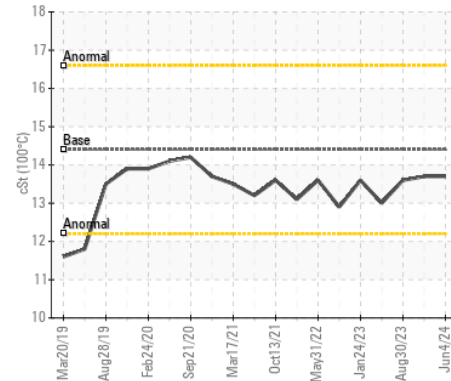
**Aluminium (ppm)**



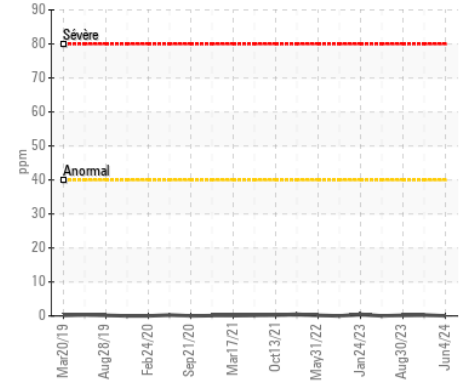
**Cuivre (ppm)**



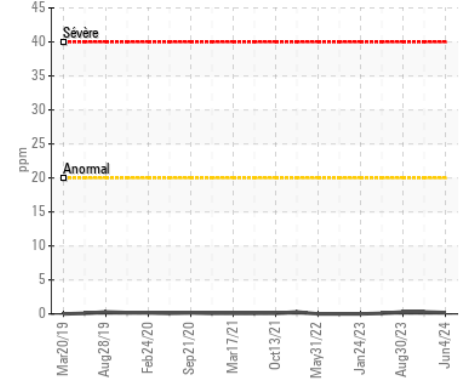
**Viscosité 100°C**



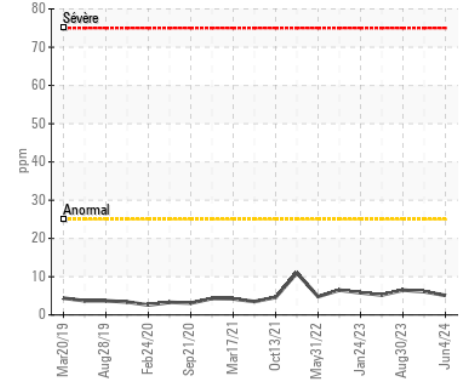
**Plomb (ppm)**



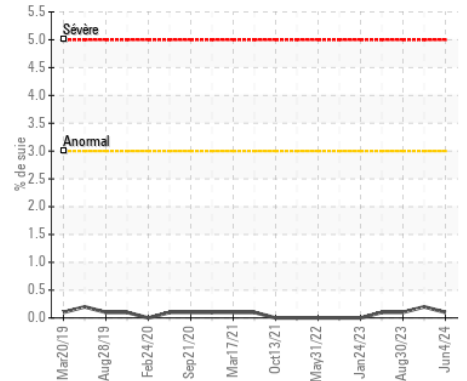
**Chrome (ppm)**



**Silicium (ppm)**



**% de suie**



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : PC0082952  
**N° de laboratoire** : 02639789  
**Numéro unique** : 5788951  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI )

**LES ENTREPRISES MICHAUVILLE INC.**  
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 CA J3H 0M6  
 Contact: Martin Trudel  
 mtrudel@michaudville.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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F: