



# RAPPORT D'ANALYSE D'HUILE

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



Identité de la machine  
**FREIGHTLINER 51400**  
 Composant  
**Moteur diesel**  
 Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0889999</b>	---	---
Date d'échant.		Client Info		<b>31 Jan 2024</b>	---	---
Âge d la Machine	mls	Client Info		<b>367920</b>	---	---
Âge de l'huile	mls	Client Info		<b>27562</b>	---	---
Âge du filtre	mls	Client Info		<b>27562</b>	---	---
Huile changée		Client Info		<b>Changed</b>	---	---
Filtre changé		Client Info		<b>Changed</b>	---	---
Statut de l'échant.				<b>ABNORMAL</b>	---	---

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>80	<b>26</b>	---	---
Chrome	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titane	ppm	ASTM D5185(m)		<b>0</b>	---	---
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminium	ppm	ASTM D5185(m)	>30	<b>7</b>	---	---
Plomb	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	---	---
Cuivre	ppm	ASTM D5185(m)	>150	<b>33</b>	---	---
Étain	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
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.

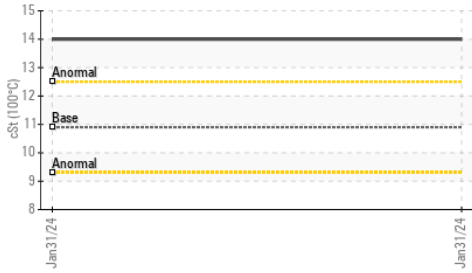
Silicium	ppm	ASTM D5185(m)	>20	<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	---	---
Essence		WC Method	>5	<b>&lt;1.0</b>	---	---
L'eau		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
% de suie	%	ASTM D7844*	>3	<b>0.1</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.3</b>	---	---
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>17.3</b>	---	---
Limon	scalar	Visual*	NONE	<b>NONE</b>	---	---
Débris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Saleté	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Apparence	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odeur	scalar	Visual*	NORML	<b>NORML</b>	---	---
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	---	---

## ÉTAT DU FLUIDE

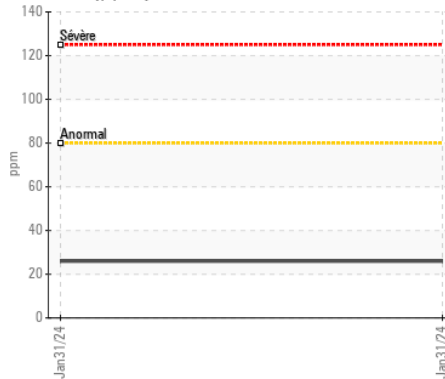
Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Bore	ppm	ASTM D5185(m)	250	<b>23</b>	---	---
Baryum	ppm	ASTM D5185(m)	10	<b>0</b>	---	---
Molybdène	ppm	ASTM D5185(m)	100	<b>10</b>	---	---
Manganèse	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnésium	ppm	ASTM D5185(m)	450	<b>48</b>	---	---
Calcium	ppm	ASTM D5185(m)	3000	<b>2242</b>	---	---
Phosphore	ppm	ASTM D5185(m)	1150	<b>896</b>	---	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1009</b>	---	---
Soufre	ppm	ASTM D5185(m)	4250	<b>3106</b>	---	---
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>10.3</b>	---	---
Visc 100°C	cSt	ASTM D7279(m)	10.9	<b>▲ 14.0</b>	---	---

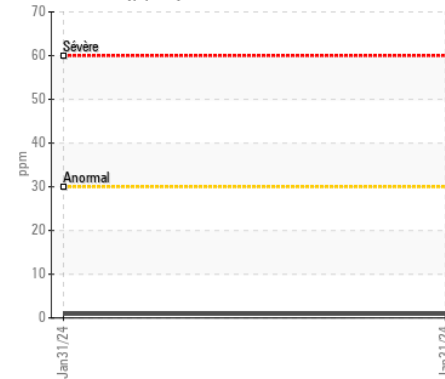
▲ Viscosité 100°C



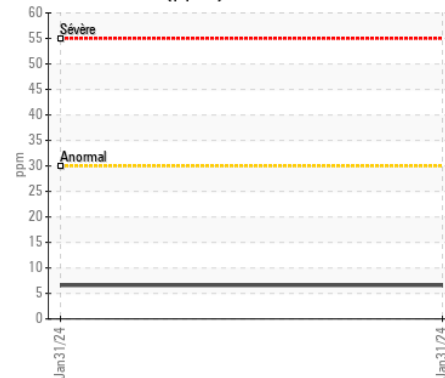
Fer (ppm)



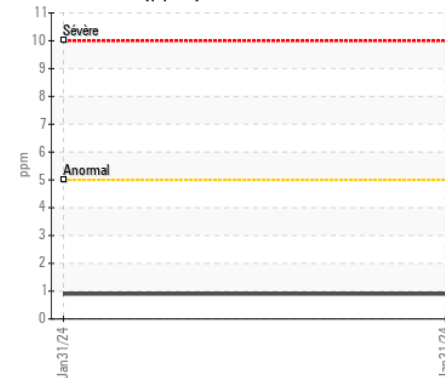
Plomb (ppm)



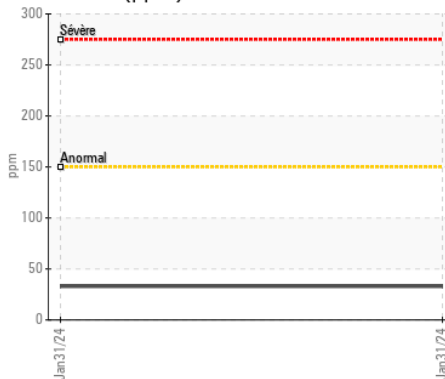
Aluminium (ppm)



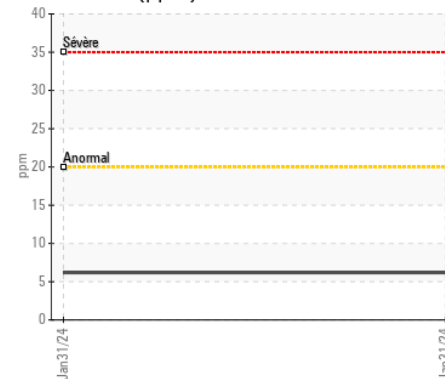
Chrome (ppm)



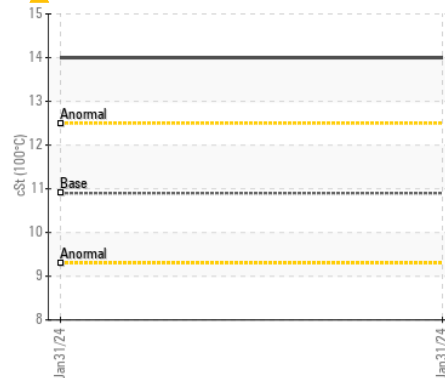
Cuivre (ppm)



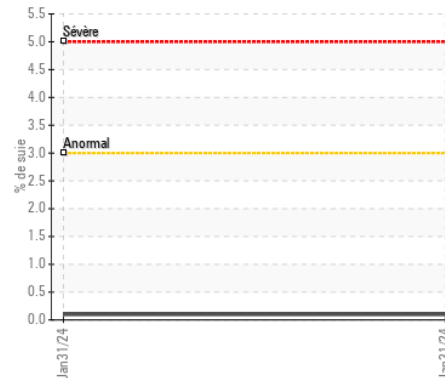
Silicium (ppm)



▲ Viscosité 100°C



% de suie



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**N° d'échantillon** : WC0889999

**N° de laboratoire** : 02617356

**Numéro unique** : 5734466

**Analyse** : MOB 1 ( Additional Tests: Visual )

**Reçu** : 22 Feb 2024

**Tested** : 22 Feb 2024

**Diagnostiqué** : 22 Feb 2024 - Kevin Marson

**MANITOU LIN TRANSPORT**

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Pour discuter cette 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.