



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**52887**

Composant

**Moteur diesel**

Fluide

**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>WC0857927</b>	WC0836007	WC0787332
Date d'échant.		Client Info		<b>24 Oct 2023</b>	17 Jul 2023	24 Mar 2023
Âge d la Machine	mls	Client Info		<b>301732</b>	0	233436
Âge de l'huile	mls	Client Info		<b>34114</b>	34187	33537
Âge du filtre	mls	Client Info		<b>34114</b>	34187	33537
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>	NORMAL	NORMAL

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>90	<b>22</b>	24	22
Chrome	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titane	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Argent	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>6</b>	6	4
Plomb	ppm	ASTM D5185(m)	>40	<b>7</b>	4	3
Cuivre	ppm	ASTM D5185(m)	>330	<b>2</b>	2	2
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

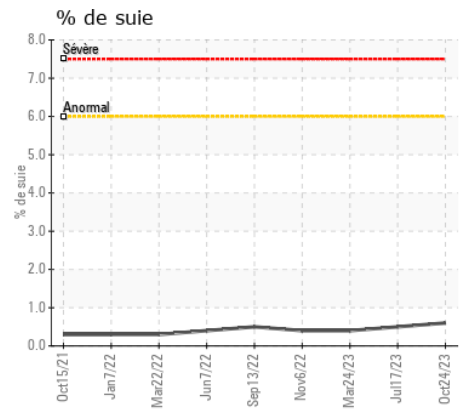
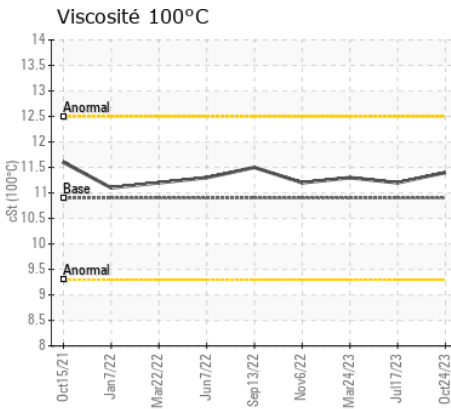
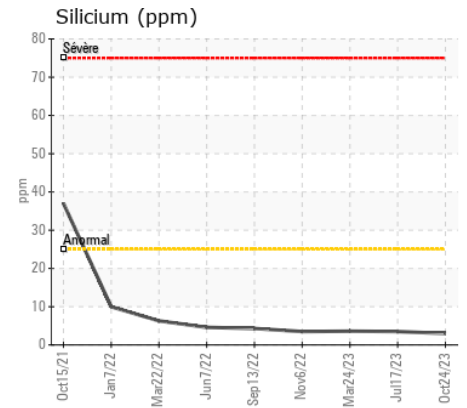
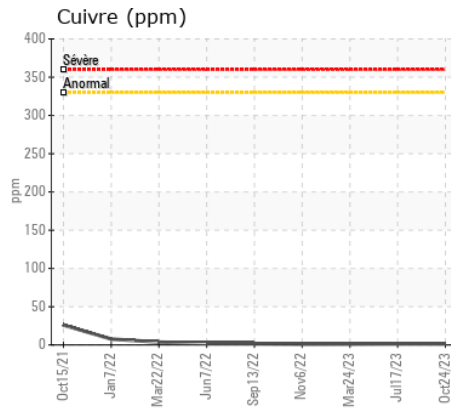
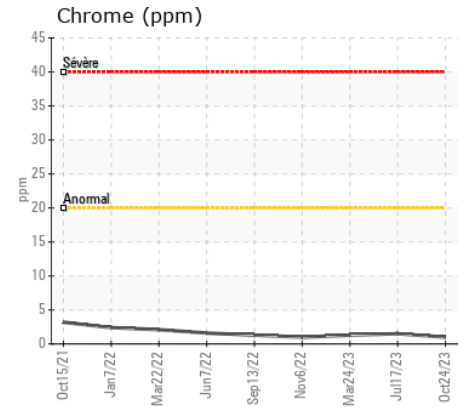
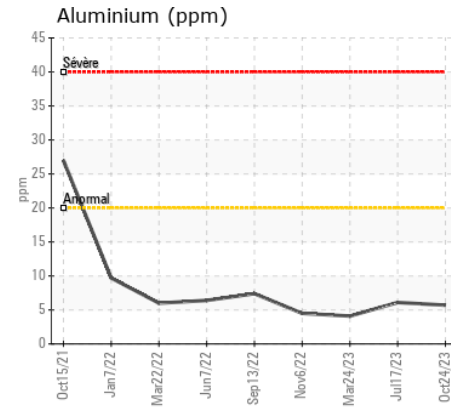
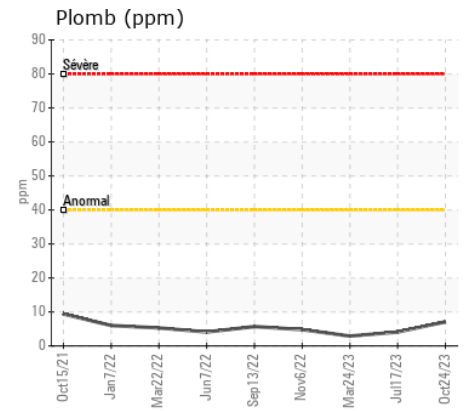
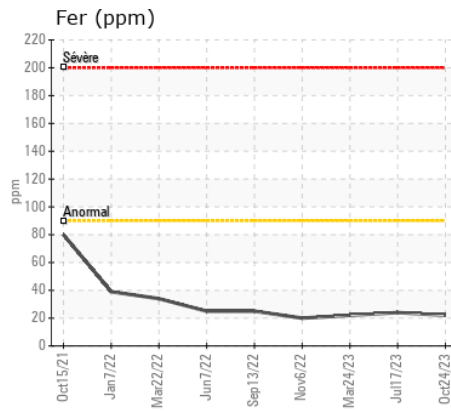
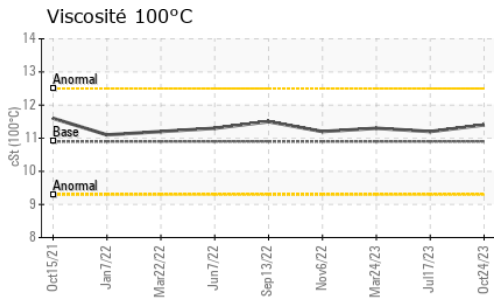
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>11</b>	13	3
Essence		WC Method	>3.0	<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*	>6	<b>0.6</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.4</b>	10.5	9.2
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>22.7</b>	22.5	20.7
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>2</b>	2	2
Bore	ppm	ASTM D5185(m)	250	<b>2</b>	4	2
Baryum	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	100	<b>58</b>	62	61
Manganèse	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	450	<b>928</b>	991	979
Calcium	ppm	ASTM D5185(m)	3000	<b>1061</b>	1072	1189
Phosphore	ppm	ASTM D5185(m)	1150	<b>957</b>	1076	1107
Zinc	ppm	ASTM D5185(m)	1350	<b>1175</b>	1216	1239
Soufre	ppm	ASTM D5185(m)	4250	<b>2417</b>	2476	2627
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>18.2</b>	17.3	16.6
Visc 100°C	cSt	ASTM D7279(m)	10.9	<b>11.4</b>	11.2	11.3



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0857927  
**N° de laboratoire** : 02598677  
**Numéro unique** : 5683757  
**Analyse** : MOB 1

**Reçu** : 24 Nov 2023  
**Diagnostiqué** : 24 Nov 2023  
**Diagnostiqueur** : Wes Davis

**MANITOU LIN TRANSPORT**  
 1890 DES SOURCES BOULEVARD  
 POINTE CLAIRE, QC  
 CA H9R 5B1  
 Contact: Eric Marcelin  
 emarcelin@manitoulintransport.com  
 T: (514)694-5111  
 F: (514)694-9739

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.