



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

**3000 series**

Identité de la machine

**Navistar 3285**

Composant

**Moteur diesel**

Fluide

**PETRO CANADA DURON SHP 10W30 (26 LTR)**

## RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0813024</b>	WC0787317	WC0758568
Date d'échant.		Client Info		<b>11 Jul 2023</b>	16 Feb 2023	18 Nov 2022
Âge d la Machine	mls	Client Info		<b>0</b>	421358	405712
Âge de l'huile	mls	Client Info		<b>19959</b>	23155	17524
Âge du filtre	mls	Client Info		<b>19959</b>	23155	0
Huile changée		Client Info		<b>Changed</b>	Changed	N/A
Filtre changé		Client Info		<b>Changed</b>	Changed	N/A
Statut de l'échant.				<b>ABNORMAL</b>	NORMAL	NORMAL

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>42</b>	32	24
Chrome	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titane	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Argent	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>10</b>	7	5
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Cuivre	ppm	ASTM D5185(m)	>330	<b>7</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

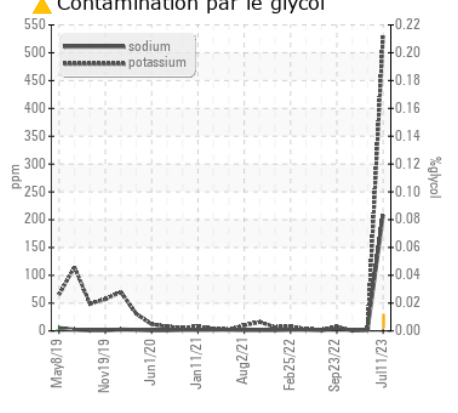
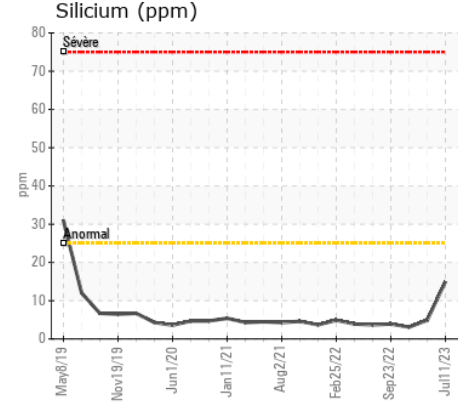
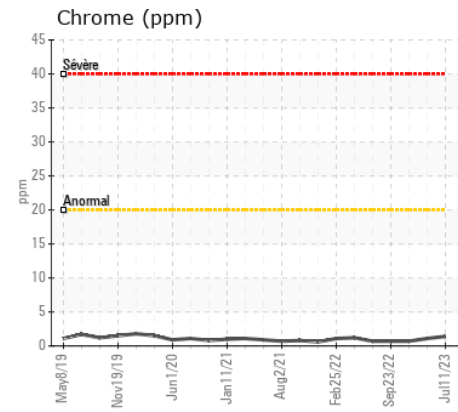
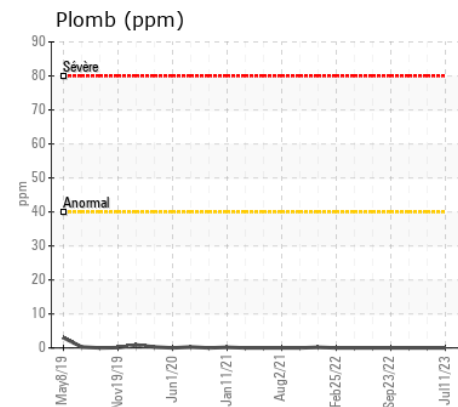
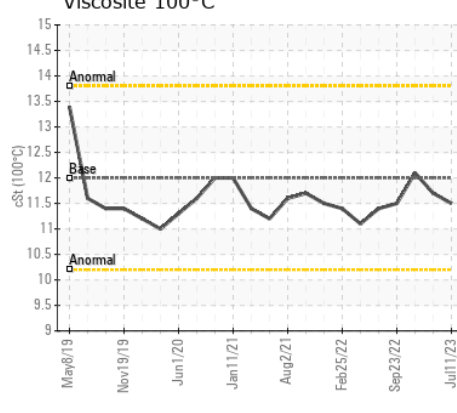
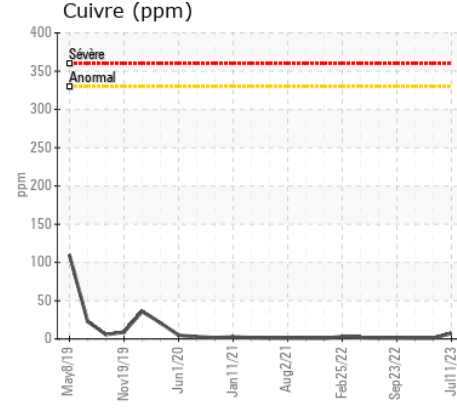
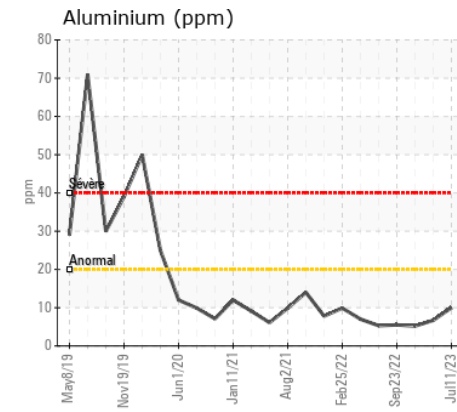
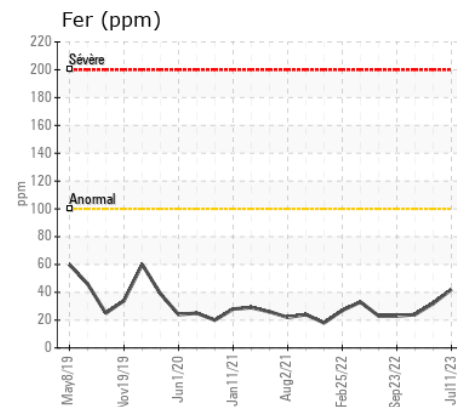
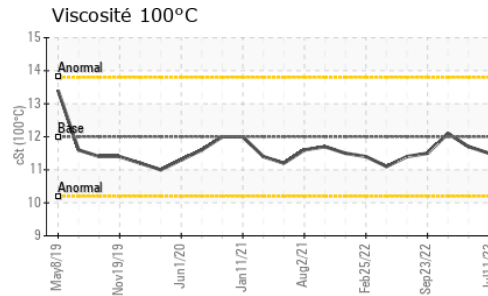
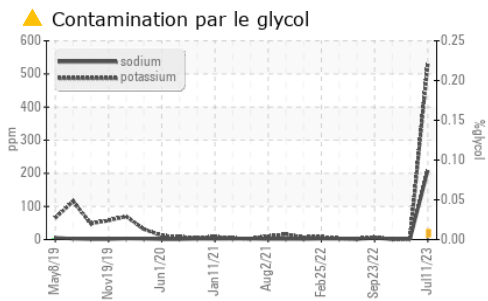
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>15</b>	5	3
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 532</b>	2	<1
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	%	ASTM D7922*		<b>▲ 0.012</b>	NEG	NEG
% de suie	%	ASTM D7844*	>3	<b>0.7</b>	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.2</b>	13.7	11.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>23.4</b>	26.1	23.0
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>▲ 208</b>	2	2
Bore	ppm	ASTM D5185(m)	2	<b>4</b>	3	1
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdène	ppm	ASTM D5185(m)	50	<b>101</b>	64	59
Manganèse	ppm	ASTM D5185(m)	0	<b>2</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>899</b>	1018	956
Calcium	ppm	ASTM D5185(m)	1050	<b>1015</b>	1238	1133
Phosphore	ppm	ASTM D5185(m)	995	<b>983</b>	1128	1068
Zinc	ppm	ASTM D5185(m)	1180	<b>1180</b>	1277	1220
Soufre	ppm	ASTM D5185(m)	2600	<b>2299</b>	2582	2470
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>18.2</b>	22.2	19.4
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.5</b>	11.7	12.1



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0813024  
**N° de laboratoire** : 02579914  
**Numéro unique** : 5632974  
**Analyse** : MOB 1 ( Additional Tests: Glycol )

**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.