



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

**52000 series**

Identité de la machine

**Navistar 52829**

Composant

**Moteur diesel**

Fluide

**PETRO CANADA DURON SHP 10W30 (40 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0836015</b>	WC0787340	WC0797596
Date d'échant.		Client Info		<b>27 Jul 2023</b>	14 Apr 2023	24 Mar 2023
Âge d la Machine	mls	Client Info		<b>29780</b>	481615	505736
Âge de l'huile	mls	Client Info		<b>29780</b>	32190	24633
Âge du filtre	mls	Client Info		<b>29780</b>	32190	24633
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>NORMAL</b>	NORMAL	NORMAL

## USURE

Metal levels are typical for a new component breaking in.

Fer	ppm	ASTM D5185(m)	>100	<b>16</b>	19	32
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>0</b>	<1	<1
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>3</b>	3	4
Plomb	ppm	ASTM D5185(m)	>40	<b>2</b>	2	2
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	2
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

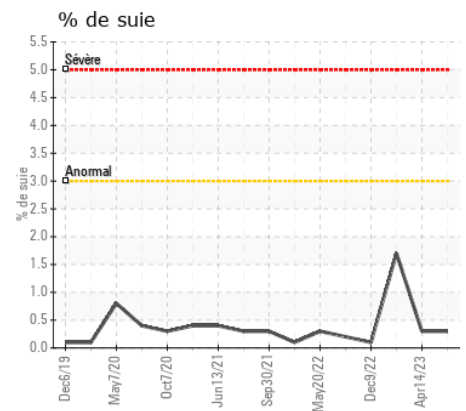
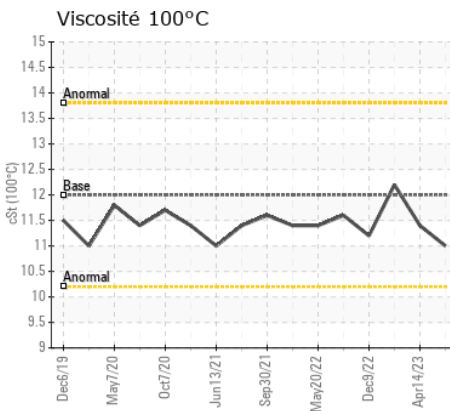
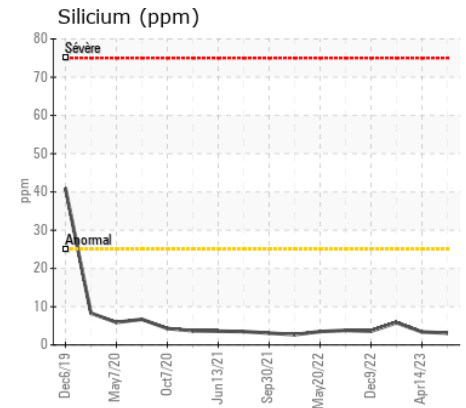
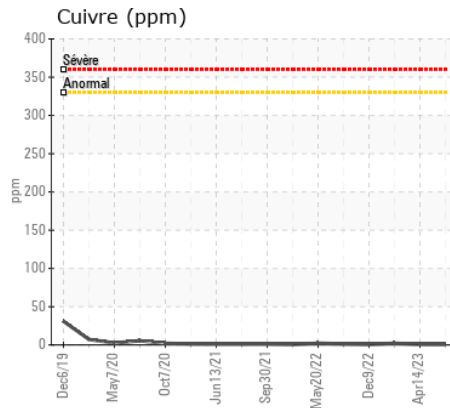
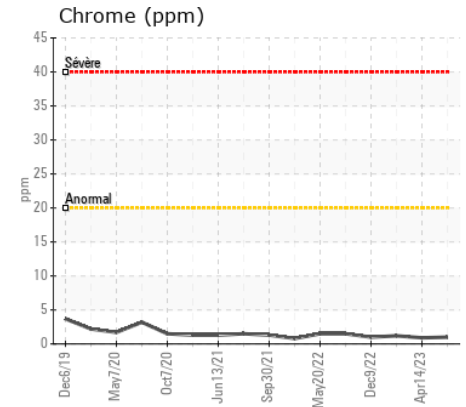
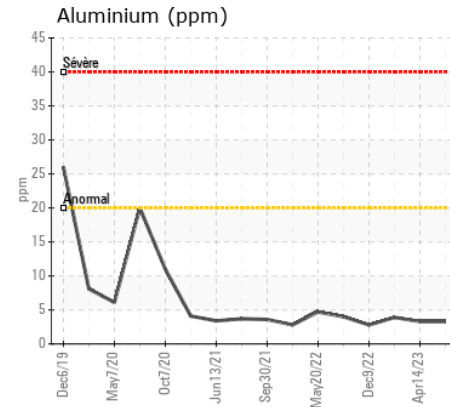
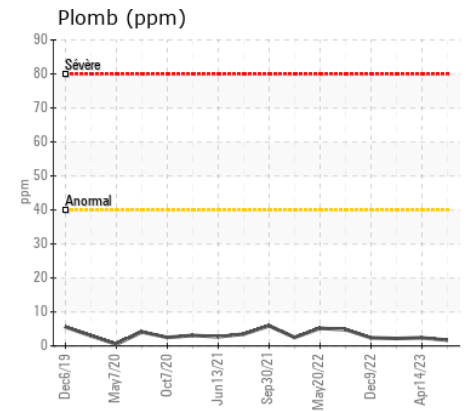
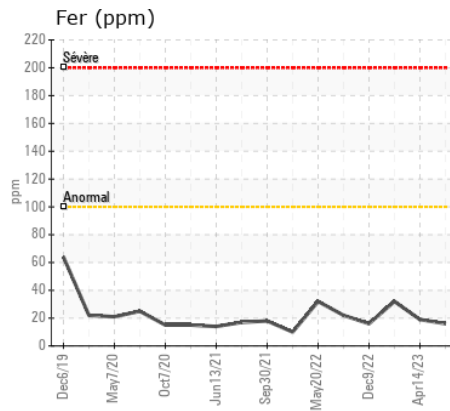
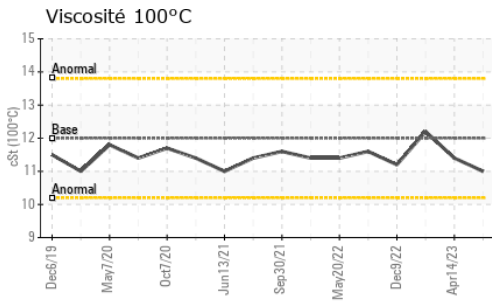
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>3</b>	3	6
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>3	<b>0.3</b>	0.3	1.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	10.0	12.1
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>22.3</b>	21.9	28.1
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	3
Bore	ppm	ASTM D5185(m)	2	<b>4</b>	2	3
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	50	<b>60</b>	63	65
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>980</b>	1003	1011
Calcium	ppm	ASTM D5185(m)	1050	<b>1067</b>	1230	1172
Phosphore	ppm	ASTM D5185(m)	995	<b>1054</b>	1139	1109
Zinc	ppm	ASTM D5185(m)	1180	<b>1212</b>	1285	1233
Soufre	ppm	ASTM D5185(m)	2600	<b>2410</b>	2615	2576
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>17.4</b>	18.4	19.9
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.0</b>	11.4	12.2



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0836015  
**N° de laboratoire** : 02579938  
**Numéro unique** : 5632998  
**Analyse** : MOB 1

**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.