



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

**4000 Series**  
Identité de la machine  
**Navistar 4321**

Composant

**Moteur diesel**

Fluide

**PETRO CANADA DURON SHP 10W30 (16 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0877567</b>	WC0857918	WC0836027
Date d'échant.		Client Info		<b>16 Nov 2023</b>	28 Sep 2023	04 Aug 2023
Âge d la Machine	mls	Client Info		<b>8934</b>	194801	184004
Âge de l'huile	mls	Client Info		<b>8934</b>	10797	11279
Âge du filtre	mls	Client Info		<b>8934</b>	10797	11279
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

Metal levels are typical for a new component breaking in.

Fer	ppm	ASTM D5185(m)	>100	<b>16</b>	21	24
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
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>5</b>	9	10
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

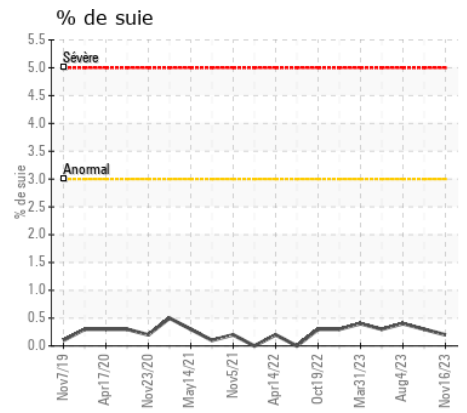
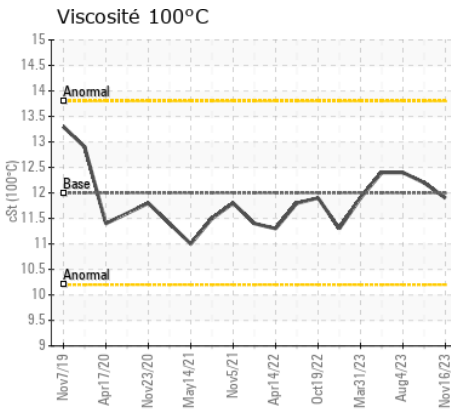
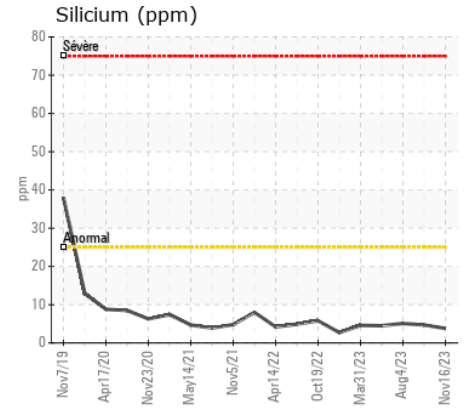
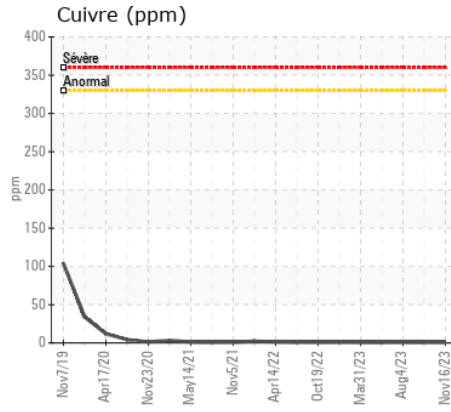
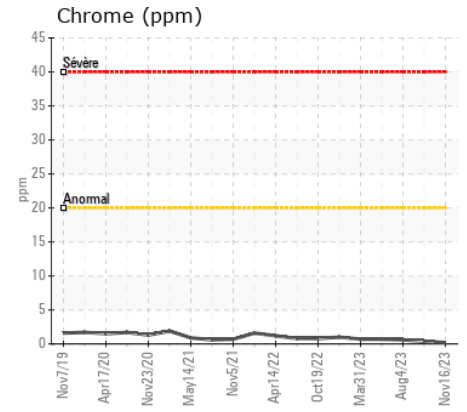
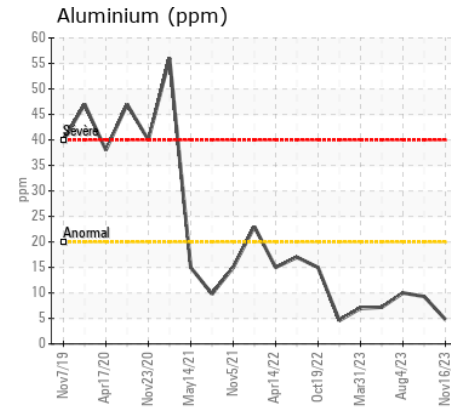
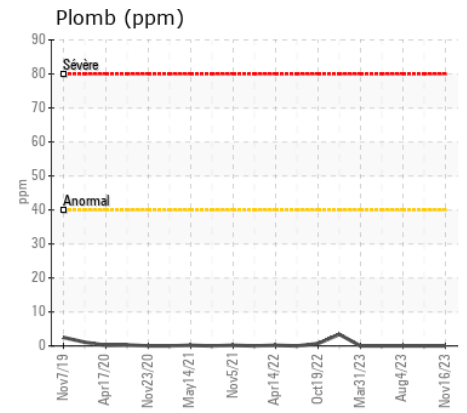
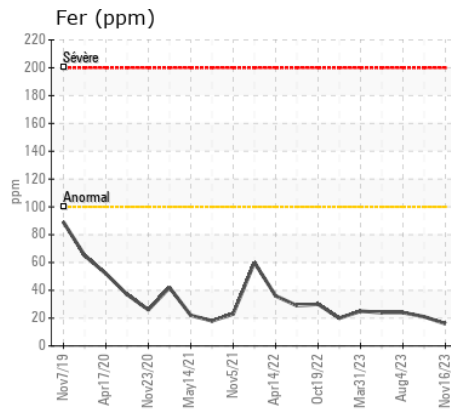
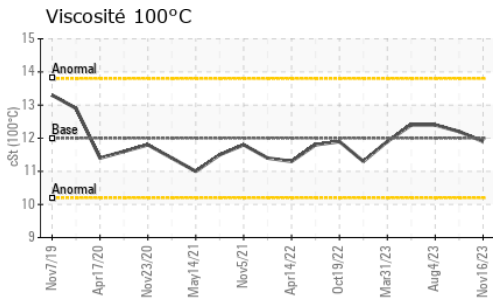
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>4</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	26	9
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	0.0
% de suie	%	ASTM D7844*	>3	<b>0.2</b>	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.6</b>	12.5	13.3
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>22.5</b>	24.0	25.8
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>	4	4
Bore	ppm	ASTM D5185(m)	2	<b>2</b>	2	2
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Molybdène	ppm	ASTM D5185(m)	50	<b>64</b>	66	66
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>1051</b>	1074	1103
Calcium	ppm	ASTM D5185(m)	1050	<b>1365</b>	1235	1220
Phosphore	ppm	ASTM D5185(m)	995	<b>1090</b>	1110	1160
Zinc	ppm	ASTM D5185(m)	1180	<b>1337</b>	1349	1371
Soufre	ppm	ASTM D5185(m)	2600	<b>2793</b>	2582	2523
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>21.2</b>	22.9	24.0
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.9</b>	12.2	12.4



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0877567  
**N° de laboratoire** : 02598682  
**Numéro unique** : 5683762  
**Analyse** : MOB 1

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

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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.