



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

**3000 series**

Identité de la machine

**Navistar 3293**

Composant

**Moteur diesel**

Fluid

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0889980</b>	WC0877558	WC0857904
Date d'échant.		Client Info		<b>16 Feb 2024</b>	08 Nov 2023	13 Sep 2023
Âge d la Machine	mls	Client Info		<b>472522</b>	456319	439024
Âge de l'huile	mls	Client Info		<b>16203</b>	17334	14638
Âge du filtre	mls	Client Info		<b>16203</b>	17334	14638
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>30</b>	17	18
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titane	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminium	ppm	ASTM D5185(m)	>20	<b>11</b>	5	6
Plomb	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>5</b>	4	3
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Métal blanc	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Bronze	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

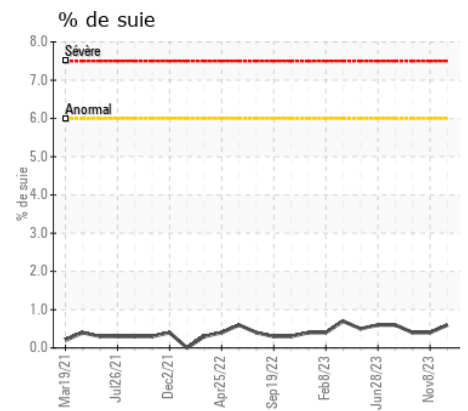
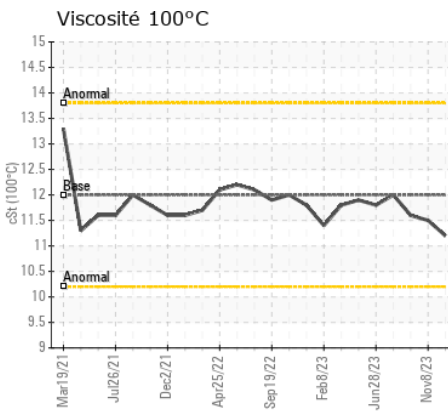
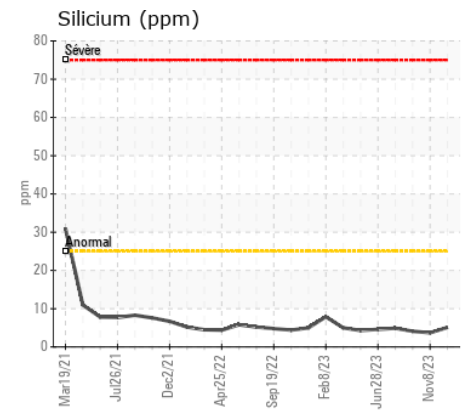
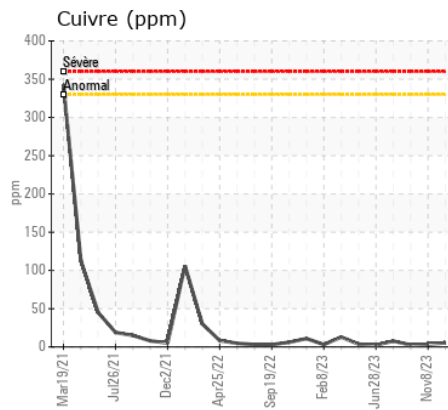
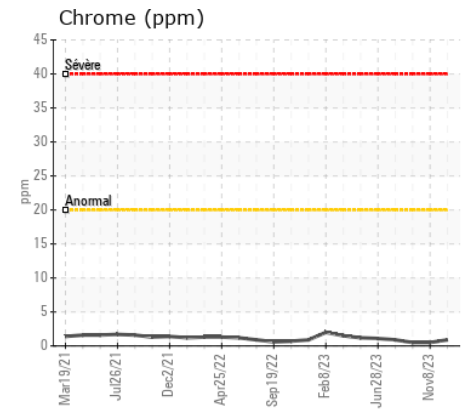
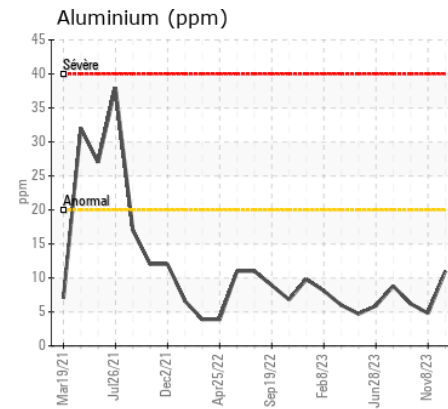
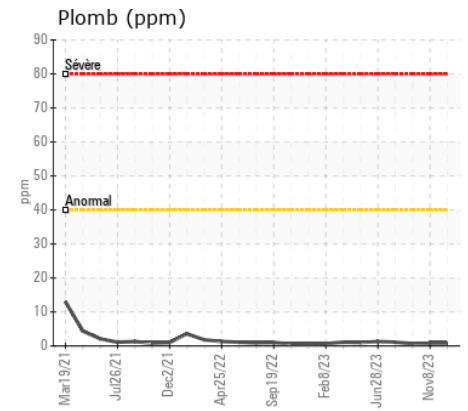
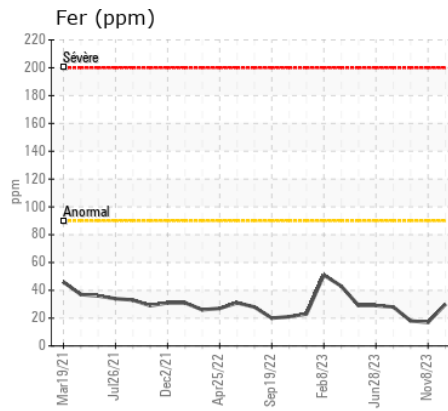
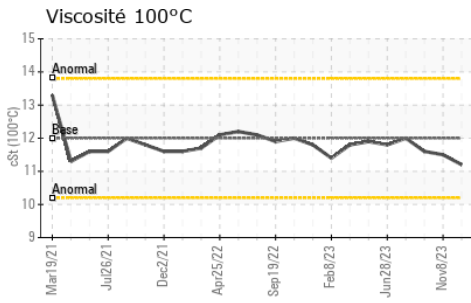
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>5</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>13</b>	3	4
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>	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	10.0	10.0
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	20.6	20.6
Limon	scalar	Visual*	NONE	<b>NONE</b>	---	---
Débris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Saleté	scalar	Visual*	NONE	<b>NONE</b>	---	---
Apparence	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odeur	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>	1	2
Bore	ppm	ASTM D5185(m)	2	<b>1</b>	2	2
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdène	ppm	ASTM D5185(m)	50	<b>60</b>	61	61
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnésium	ppm	ASTM D5185(m)	950	<b>975</b>	985	978
Calcium	ppm	ASTM D5185(m)	1050	<b>1157</b>	1133	1130
Phosphore	ppm	ASTM D5185(m)	995	<b>1040</b>	1016	1026
Zinc	ppm	ASTM D5185(m)	1180	<b>1233</b>	1241	1236
Soufre	ppm	ASTM D5185(m)	2600	<b>2770</b>	2578	2534
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>18.7</b>	17.6	17.3
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.5	11.6



ISO 17025:2017  
Accredited  
Laboratory

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

**N° d'échantillon** : WC0889980

**N° de laboratoire** : 02617337

**Numéro unique** : 5734447

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

**Reçu** : 22 Feb 2024

**Tested** : 22 Feb 2024

**Diagnostiqué** : 22 Feb 2024 - Wes Davis

**MANITOU LIN TRANSPORT**

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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.