



# 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**

Fluide

**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>WC0813031</b>	WC0813006	WC0787337
Date d'échant.		Client Info		<b>28 Jun 2023</b>	12 May 2023	13 Mar 2023
Âge d la Machine	mls	Client Info		<b>405640</b>	384588	361749
Âge de l'huile	mls	Client Info		<b>21132</b>	22888	20696
Âge du filtre	mls	Client Info		<b>21132</b>	22888	20696
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>29</b>	29	43
Chrome	ppm	ASTM D5185(m)	>20	<b>1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titane	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Argent	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>6</b>	5	6
Plomb	ppm	ASTM D5185(m)	>40	<b>1</b>	1	1
Cuivre	ppm	ASTM D5185(m)	>330	<b>2</b>	4	13
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

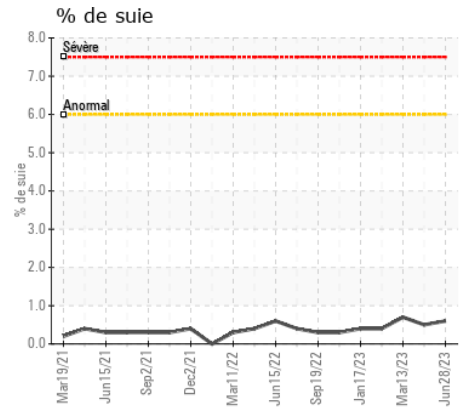
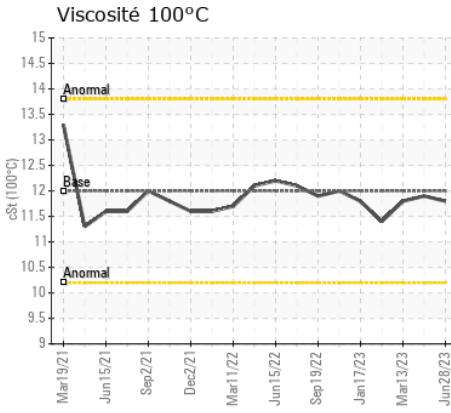
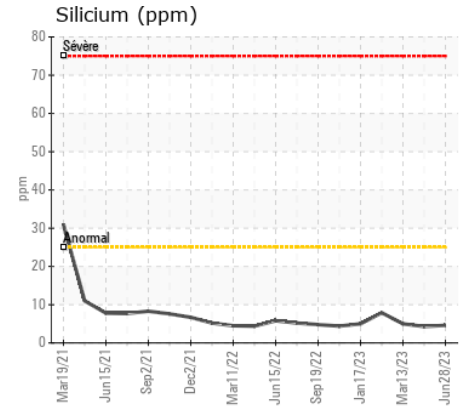
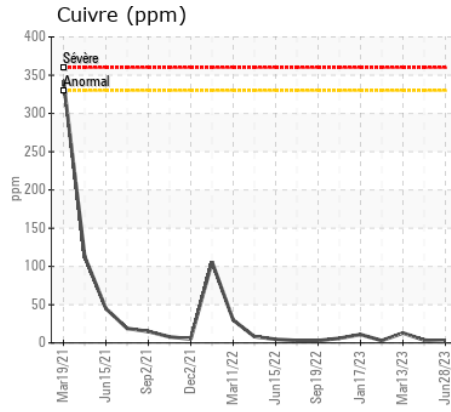
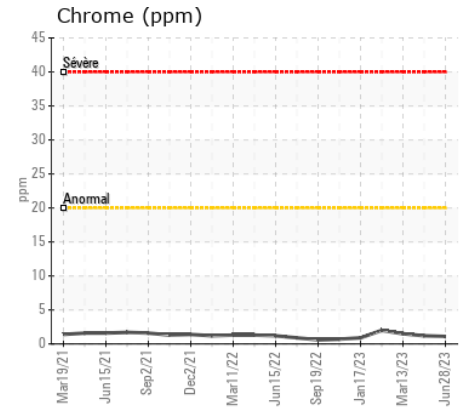
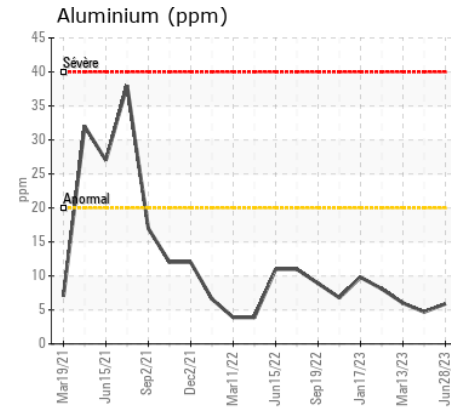
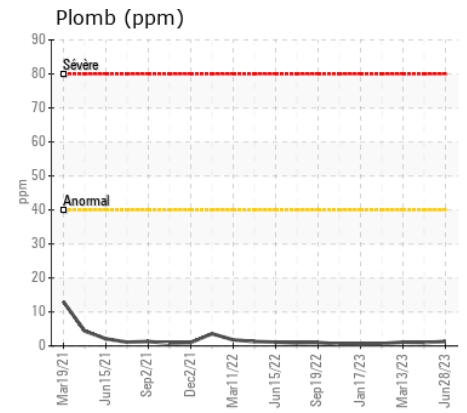
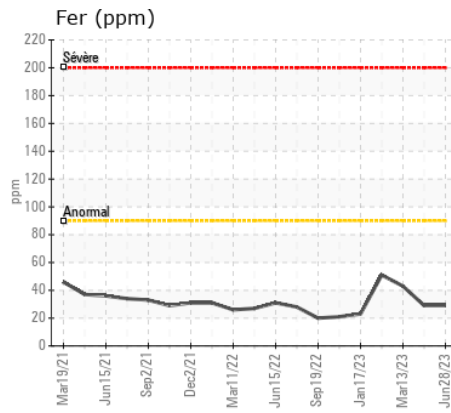
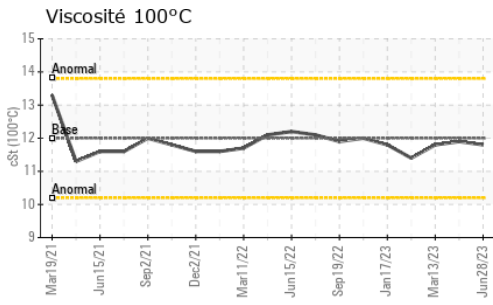
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>5</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	3	4
Essence		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>6	<b>0.6</b>	0.5	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.4</b>	11.7	12.0
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>22.8</b>	22.1	22.4
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)	2	<b>3</b>	4	3
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	50	<b>64</b>	65	65
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>1062</b>	1064	1034
Calcium	ppm	ASTM D5185(m)	1050	<b>1127</b>	1142	1245
Phosphore	ppm	ASTM D5185(m)	995	<b>1107</b>	1138	1116
Zinc	ppm	ASTM D5185(m)	1180	<b>1275</b>	1309	1311
Soufre	ppm	ASTM D5185(m)	2600	<b>2488</b>	2557	2534
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>21.1</b>	20.4	20.5
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.8</b>	11.9	11.8



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0813031  
**N° de laboratoire** : 02572190  
**Numéro unique** : 5617241  
**Analyse** : MOB 1

**Reçu** : 26 Jul 2023  
**Diagnostiqué** : 26 Jul 2023  
**Diagnostiqueur** : Kevin Marson

**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.