



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**INTERNATIONAL 3307**

Composant

**Moteur diesel**

Fluid

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

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0889986</b>	WC0890005	---
Date d'échant.		Client Info		<b>22 Feb 2024</b>	15 Jan 2024	---
Âge d la Machine	mls	Client Info		<b>81437</b>	61656	---
Âge de l'huile	mls	Client Info		<b>21575</b>	19459	---
Âge du filtre	mls	Client Info		<b>21575</b>	19459	---
Huile changée		Client Info		<b>Changed</b>	Changed	---
Filtre changé		Client Info		<b>Changed</b>	Changed	---
Statut de l'échant.				<b>NORMAL</b>	NORMAL	---

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>24</b>	20	---
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titane	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminium	ppm	ASTM D5185(m)	>20	<b>13</b>	14	---
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	0	---
Cuivre	ppm	ASTM D5185(m)	>330	<b>21</b>	1	---
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## CONTAMINATION

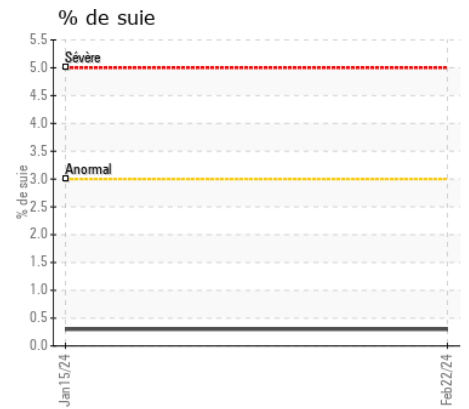
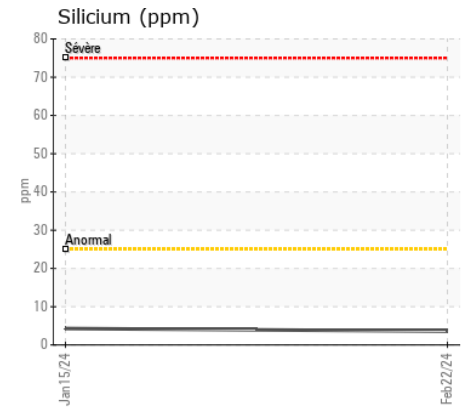
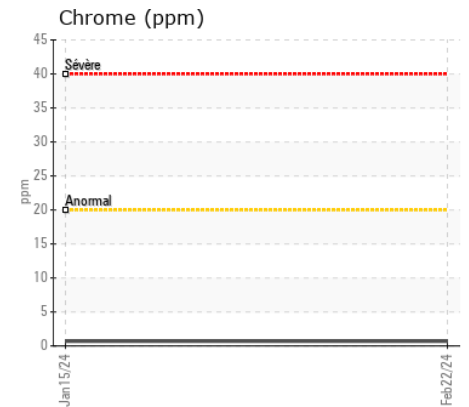
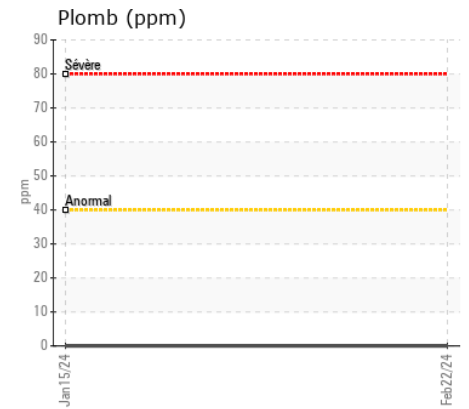
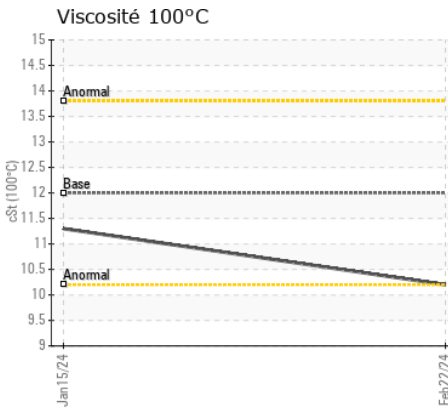
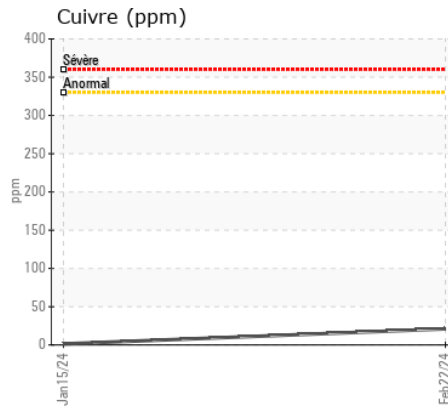
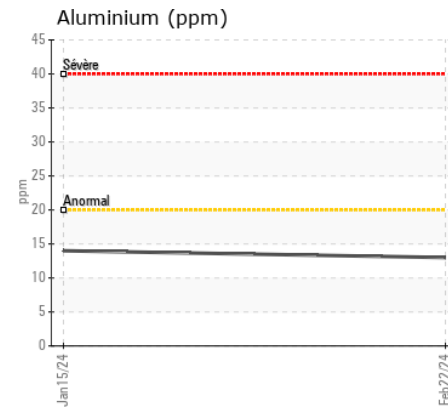
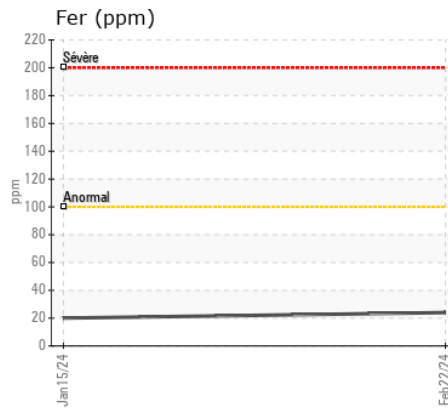
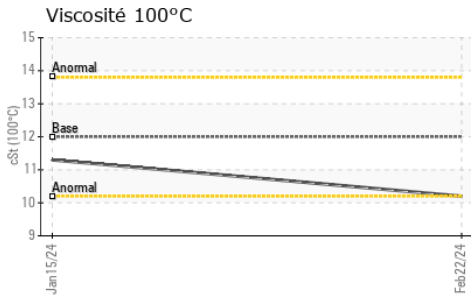
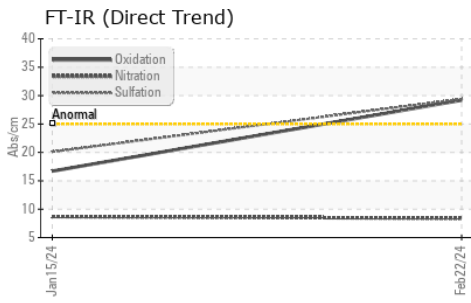
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>4</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>23</b>	19	---
Essence		WC Method	>2.0	<b>&lt;1.0</b>	<1.0	---
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
% de suie	%	ASTM D7844*	>3	<b>0.3</b>	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.4</b>	8.7	---
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>29.4</b>	20.1	---
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

## ÉTAT DU FLUIDE

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	1	---
Bore	ppm	ASTM D5185(m)	2	<b>25</b>	1	---
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Molybdène	ppm	ASTM D5185(m)	50	<b>51</b>	59	---
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Magnésium	ppm	ASTM D5185(m)	950	<b>813</b>	981	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1009</b>	1100	---
Phosphore	ppm	ASTM D5185(m)	995	<b>963</b>	1013	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1009</b>	1206	---
Soufre	ppm	ASTM D5185(m)	2600	<b>4009</b>	2667	---
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>29.2</b>	16.7	---
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>10.2</b>	11.3	---



ISO 17025:2017  
Accredited  
Laboratory

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

**N° d'échantillon** : WC0889986

**N° de laboratoire** : 02626932

**Numéro unique** : 5760064

**Analyse** : MOB 1

**Reçu** : 05 Apr 2024

**Tested** : 05 Apr 2024

**Diagnostiqué** : 05 Apr 2024 - 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.