



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**3304**

Composant

**Moteur diesel**

Fluid

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0877578</b>	WC0857932	WC0836040
Date d'échant.		Client Info		<b>01 Dec 2023</b>	14 Oct 2023	31 Aug 2023
Âge d la Machine	hrs	Client Info		<b>61256</b>	41863	22898
Âge de l'huile	hrs	Client Info		<b>19317</b>	18765	22898
Âge du filtre	hrs	Client Info		<b>19317</b>	18765	22898
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>19</b>	20	37
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>10</b>	13	12
Plomb	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>2</b>	2	10
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
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

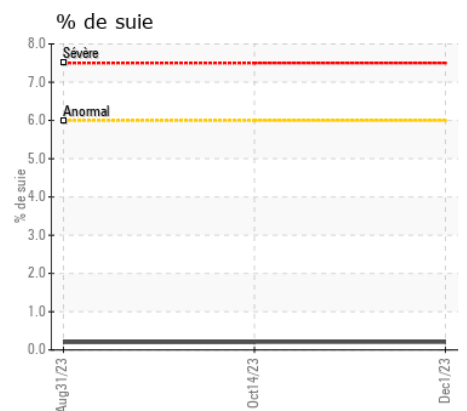
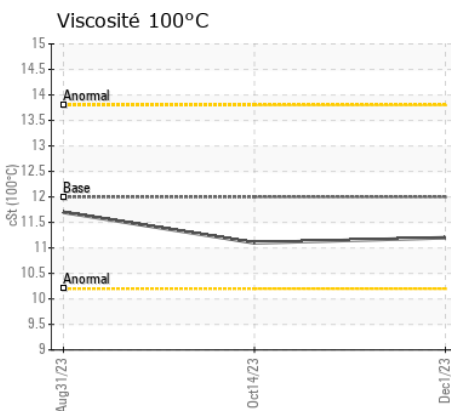
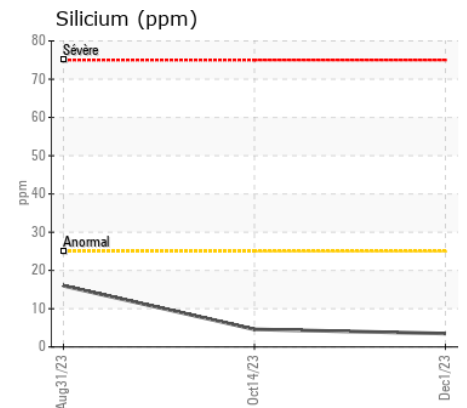
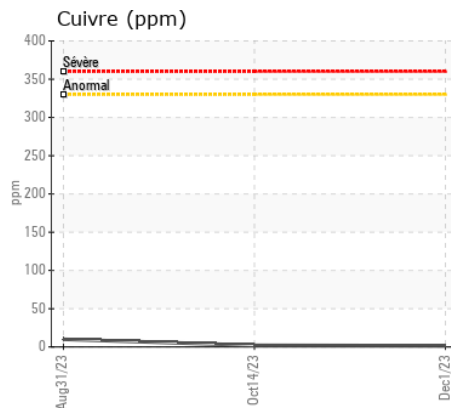
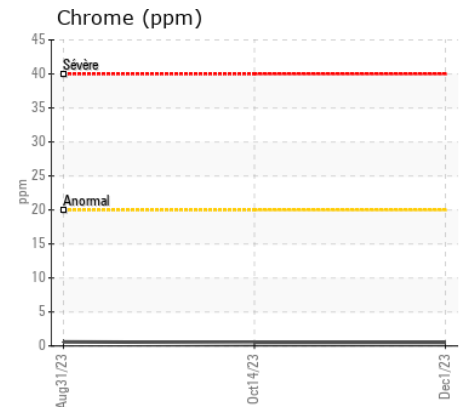
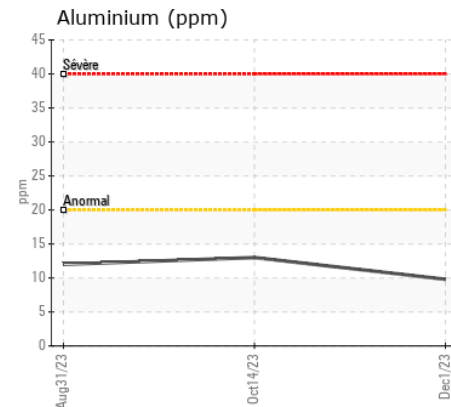
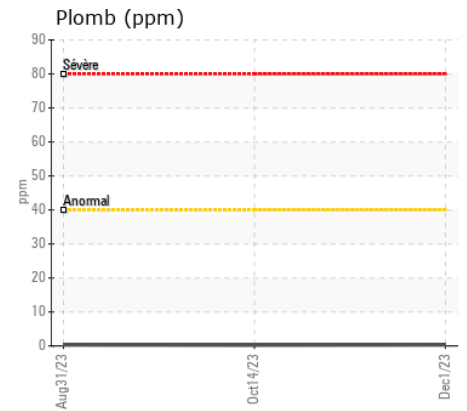
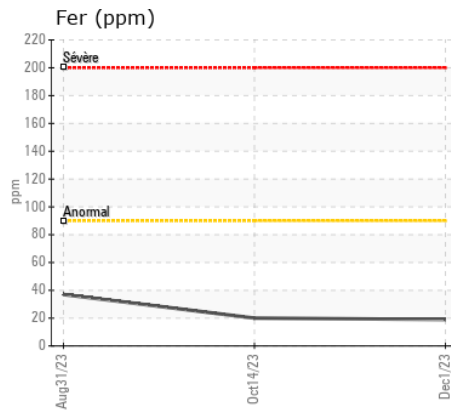
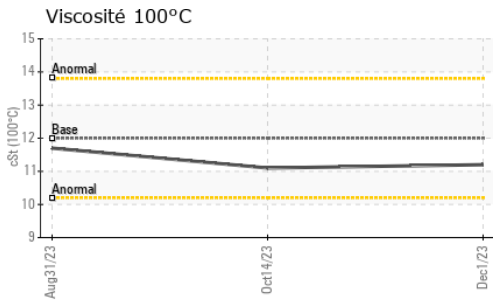
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>4</b>	5	16
Potassium	ppm	ASTM D5185(m)	>20	<b>11</b>	20	23
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>0.2</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	7.9	11.1
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	19.7	21.7
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>	2	5
Bore	ppm	ASTM D5185(m)	2	<b>2</b>	3	22
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	4
Molybdène	ppm	ASTM D5185(m)	50	<b>58</b>	58	51
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	<1	6
Magnésium	ppm	ASTM D5185(m)	950	<b>955</b>	941	826
Calcium	ppm	ASTM D5185(m)	1050	<b>1239</b>	1123	1229
Phosphore	ppm	ASTM D5185(m)	995	<b>1001</b>	981	726
Zinc	ppm	ASTM D5185(m)	1180	<b>1213</b>	1177	887
Soufre	ppm	ASTM D5185(m)	2600	<b>2730</b>	2559	1928
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>15.9</b>	15.6	20.5
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.1	11.7



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0877578 **Reçu** : 19 Dec 2023  
**N° de laboratoire** : 02604057 **Diagnostiqué** : 19 Dec 2023  
**Numéro unique** : 5697142 **Diagnostiqueur** : Wes Davis  
**Analyse** : MOB 1 ( Additional Tests: Visual )

**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.