



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**INTERNATIONAL 52936**

Composant

**Moteur au propane**

Fluide

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

## RECOMMENDATION

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0857920</b>	WC0857900	WC0836010
Date d'échant.		Client Info		<b>05 Oct 2023</b>	07 Sep 2023	19 Jul 2023
Âge d la Machine	mls	Client Info		<b>32697</b>	88226	68882
Âge de l'huile	mls	Client Info		<b>32697</b>	88226	34330
Âge du filtre	mls	Client Info		<b>32697</b>	88226	0
Huile changée		Client Info		<b>Changed</b>	Not Changd	Changed
Filtre changé		Client Info		<b>Changed</b>	Not Changd	Changed
Statut de l'échant.				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## USURE

Metal levels are typical for a new component breaking in.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Fer	ppm	ASTM D5185(m)	>100	<b>20</b>	15	30
Chrome	ppm	ASTM D5185(m)	>25	<b>2</b>	1	2
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Aluminium	ppm	ASTM D5185(m)	>20	<b>18</b>	17	34
Plomb	ppm	ASTM D5185(m)	>25	<b>4</b>	2	4
Cuivre	ppm	ASTM D5185(m)	>35	<b>2</b>	2	6
Étain	ppm	ASTM D5185(m)	>8	<b>1</b>	1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

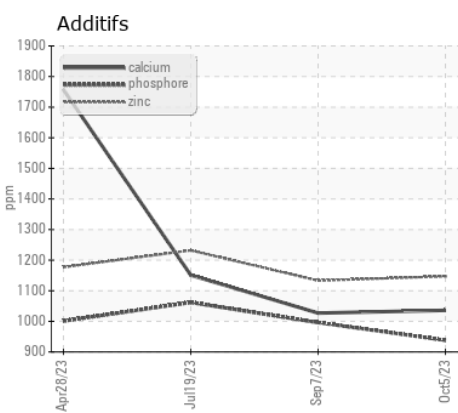
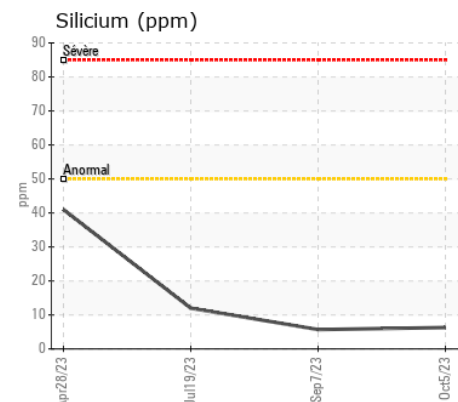
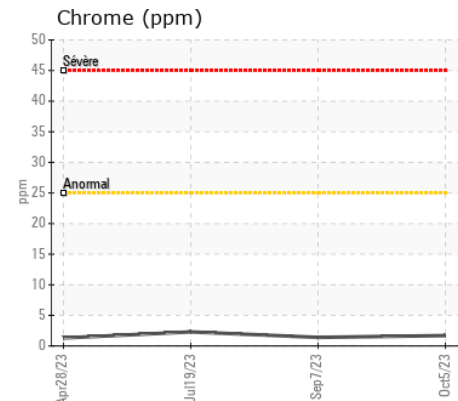
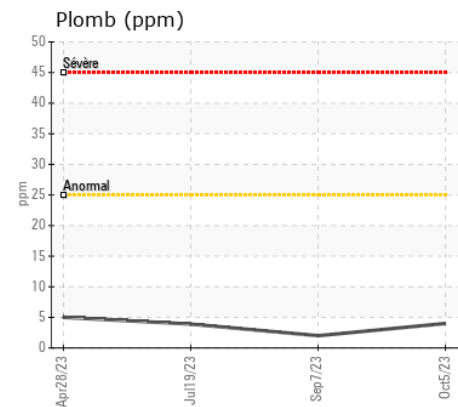
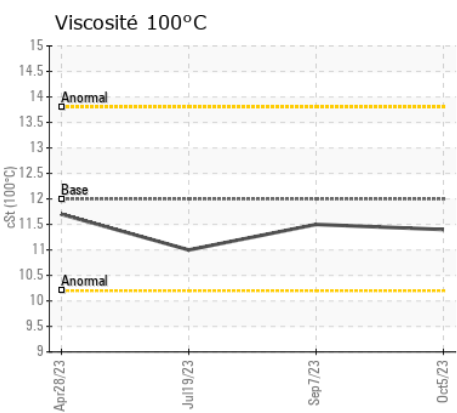
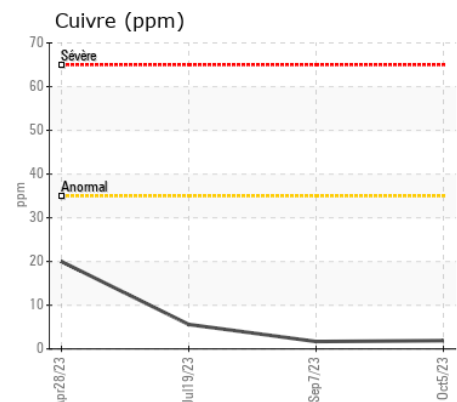
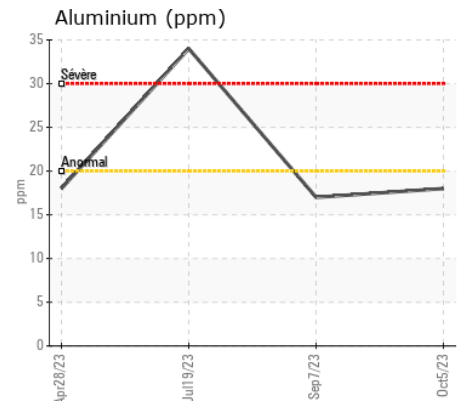
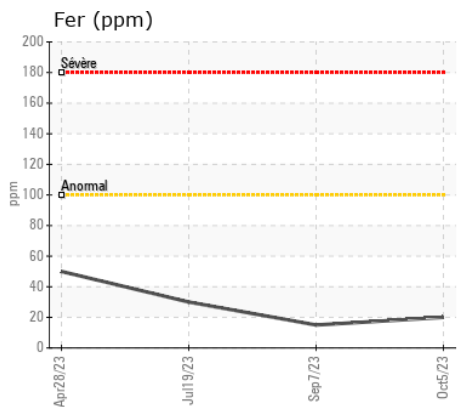
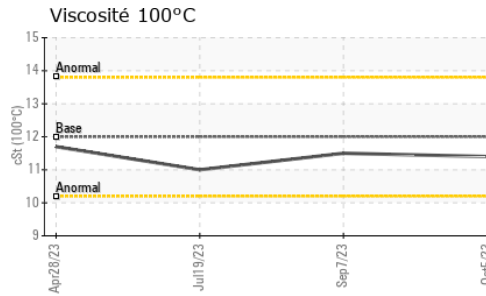
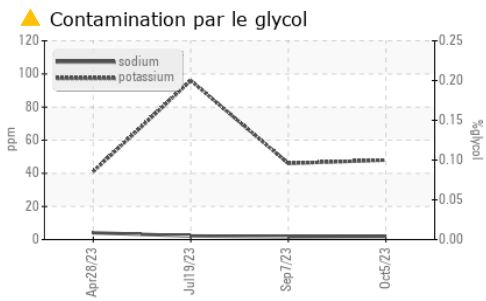
Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicium	ppm	ASTM D5185(m)	>50	<b>6</b>	6	12
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 48</b>	▲ 46	▲ 96
% de suie	%	ASTM D7844*		<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	7.1	9.1
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	19.2	21.9
Eau émulsifiée	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

The condition of the oil is acceptable for the time in service (see recommendation).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Bore	ppm	ASTM D5185(m)	2	<b>2</b>	2	6
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Molybdène	ppm	ASTM D5185(m)	50	<b>57</b>	56	62
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	1
Magnésium	ppm	ASTM D5185(m)	950	<b>916</b>	920	949
Calcium	ppm	ASTM D5185(m)	1050	<b>1036</b>	1027	1151
Phosphore	ppm	ASTM D5185(m)	995	<b>938</b>	996	1062
Zinc	ppm	ASTM D5185(m)	1180	<b>1147</b>	1133	1232
Soufre	ppm	ASTM D5185(m)	2600	<b>2351</b>	2493	2357
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>16.1</b>	14.7	17.0
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.4</b>	11.5	11.0



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0857920  
**N° de laboratoire** : 02589264  
**Numéro unique** : 5658330  
**Analyse** : MOB 1

**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.