



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

**279**

Composant

**Moteur diesel**

Fluide

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

## 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>WC0831685</b>	WC0599446	AP99038
Date d'échant.		Client Info		<b>12 Sep 2023</b>	15 Jul 2021	22 Jul 2015
Âge d la Machine	kms	Client Info		<b>712492</b>	571493	56136
Âge de l'huile	kms	Client Info		<b>38963</b>	54553	0
Âge du filtre	kms	Client Info		<b>38963</b>	54553	0
Huile changée		Client Info		<b>N/A</b>	Changed	Changed
Filtre changé		Client Info		<b>N/A</b>	Changed	N/A
Statut de l'échant.				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>165	<b>38</b>	61	66
Chrome	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	7
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titane	ppm	ASTM D5185(m)	>2	<b>0</b>	0	2
Argent	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	42
Plomb	ppm	ASTM D5185(m)	>150	<b>4</b>	5	17
Cuivre	ppm	ASTM D5185(m)	>90	<b>1</b>	1	47
Étain	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

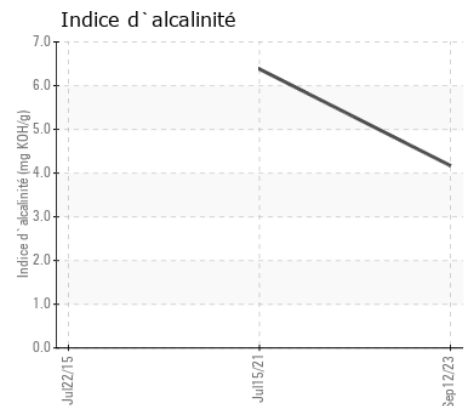
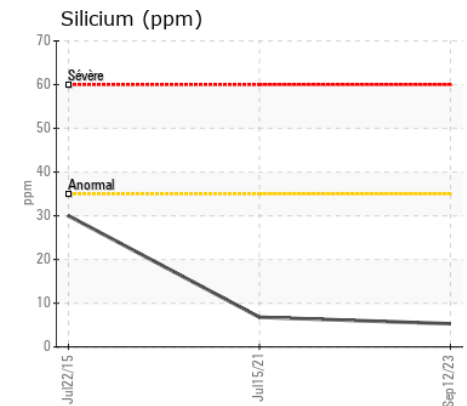
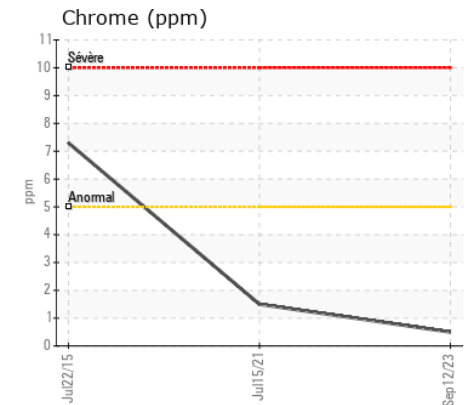
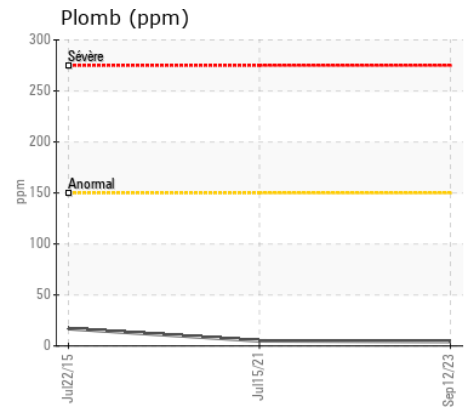
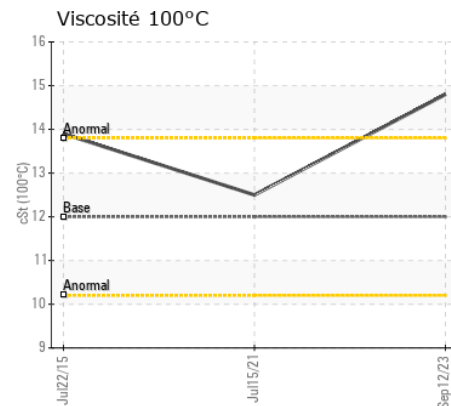
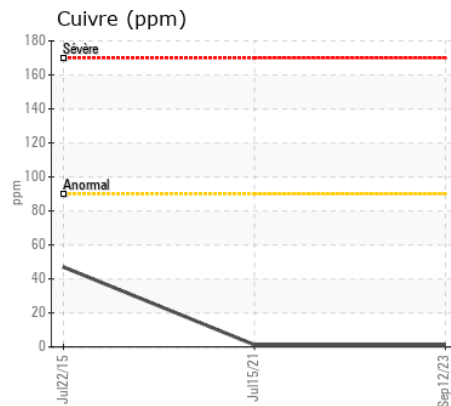
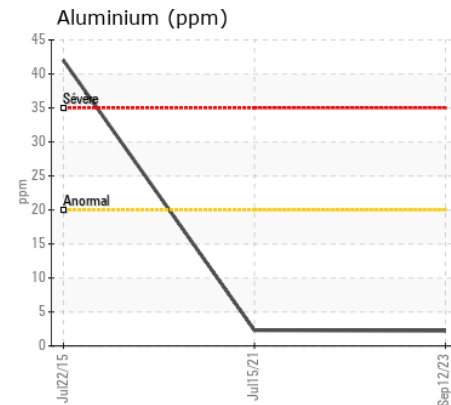
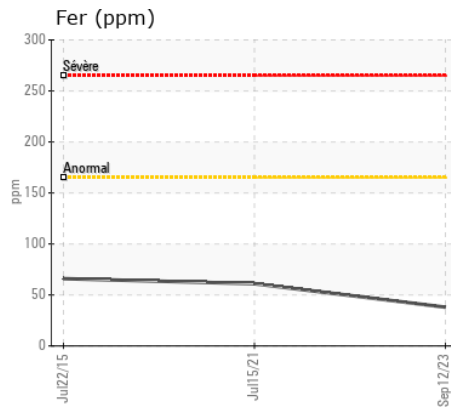
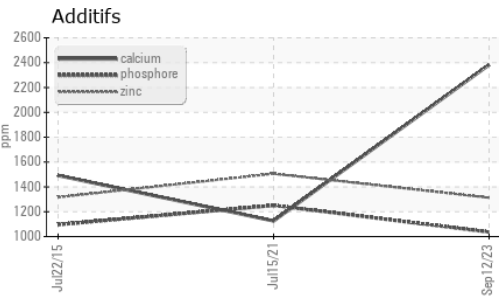
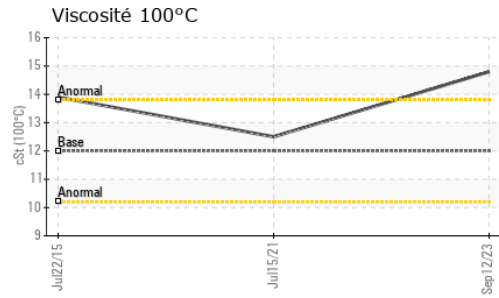
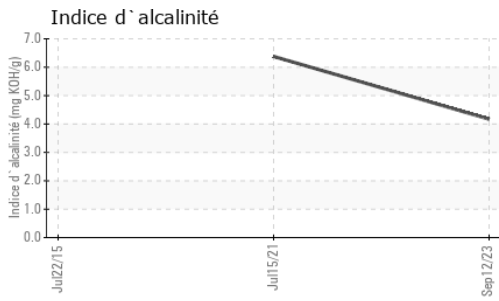
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>35	<b>5</b>	7	30
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	2	126
Essence		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol		WC Method		<b>NEG</b>	NEG	0.0
% de suie	%	ASTM D7844*	>7.5	<b>0.5</b>	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.3</b>	14.8	13.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>30.2</b>	30.7	28.2
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	6	13
Bore	ppm	ASTM D5185(m)	2	<b>30</b>	11	13
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	4
Molybdène	ppm	ASTM D5185(m)	50	<b>10</b>	69	45
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	<1	5
Magnésium	ppm	ASTM D5185(m)	950	<b>129</b>	1305	866
Calcium	ppm	ASTM D5185(m)	1050	<b>2383</b>	1126	1492
Phosphore	ppm	ASTM D5185(m)	995	<b>1036</b>	1251	1096
Zinc	ppm	ASTM D5185(m)	1180	<b>1313</b>	1506	1316
Soufre	ppm	ASTM D5185(m)	2600	<b>2978</b>	2944	2630
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>25.6</b>	30.2	25.4
Indice d'alcalinité	mg KOH/g	ASTM D2896*		<b>4.17</b>	6.38	---
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>14.8</b>	12.5	13.9



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0831685 **Reçu** : 03 Oct 2023  
**N° de laboratoire** : 02586364 **Diagnostiqué** : 03 Oct 2023  
**Numéro unique** : 5655430 **Diagnostiqueur** : Kevin Marson  
**Analyse** : MOB 2

**Moncton - Transport Laberge**  
 180 Edinburg Drive, Suite 1A  
 Moncton, NB  
 CA E1E 2K7  
 Contact: Service Manager

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.

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