



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

**52000 series**

Identité de la machine

**International 52649**

Composant

**Moteur diesel Avant**

Fluid

**PETRO CANADA DURON SHP 15W40 (40 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>WC0889983</b>	WC0836011	WC0787315
Date d'échant.		Client Info		<b>16 Feb 2024</b>	22 Jul 2023	08 Feb 2023
Âge d la Machine	mls	Client Info		<b>553608</b>	690190	669291
Âge de l'huile	mls	Client Info		<b>19631</b>	20760	39120
Âge du filtre	mls	Client Info		<b>19631</b>	20760	39120
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)	>165	<b>43</b>	23	25
Chrome	ppm	ASTM D5185(m)	>5	<b>2</b>	1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titane	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Argent	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>4</b>	2	2
Plomb	ppm	ASTM D5185(m)	>150	<b>11</b>	7	8
Cuivre	ppm	ASTM D5185(m)	>90	<b>2</b>	1	1
Étain	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

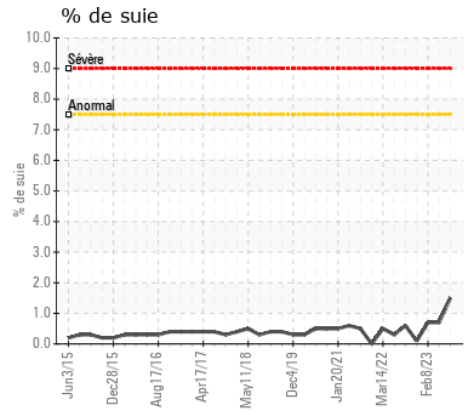
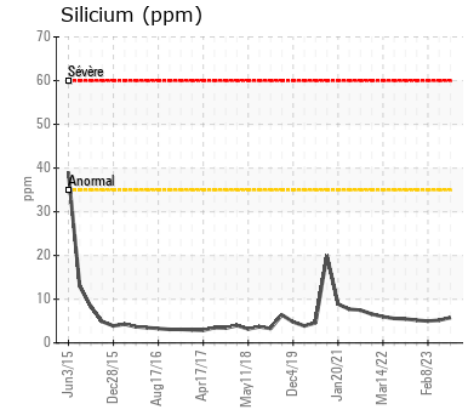
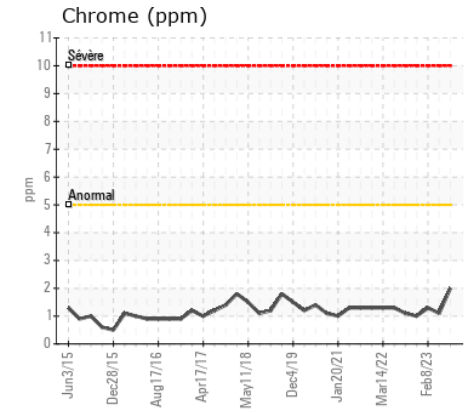
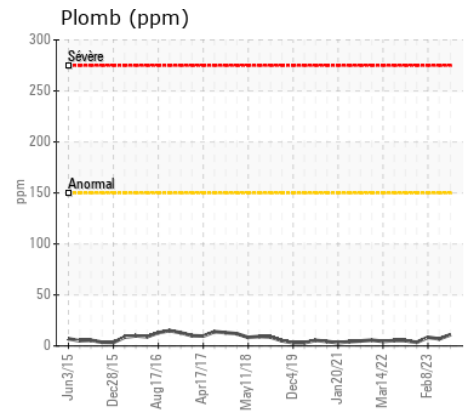
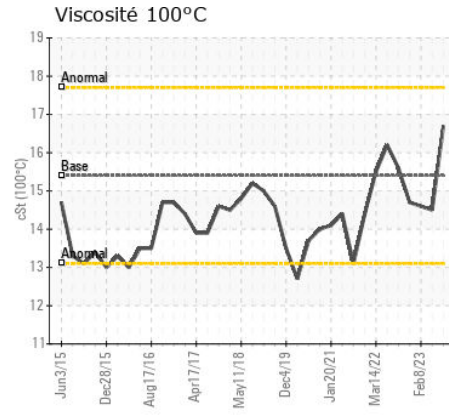
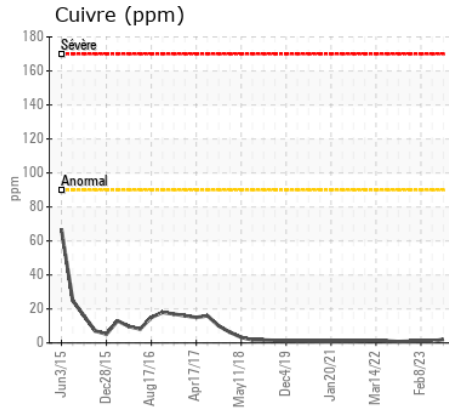
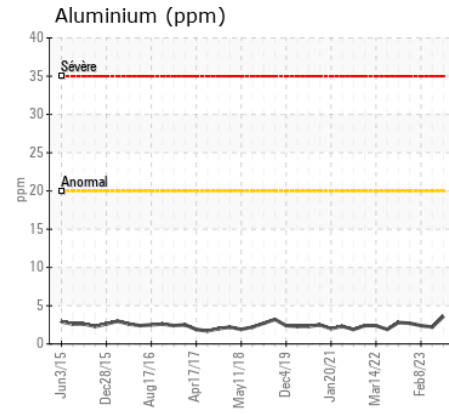
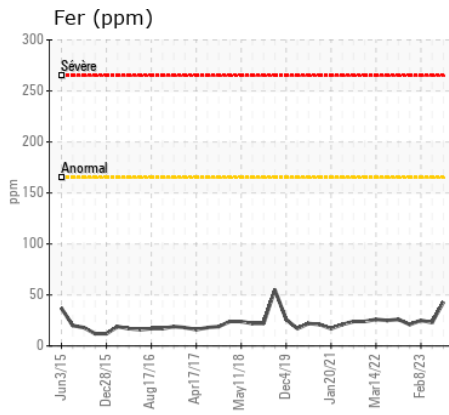
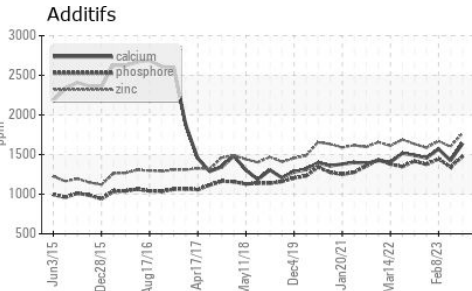
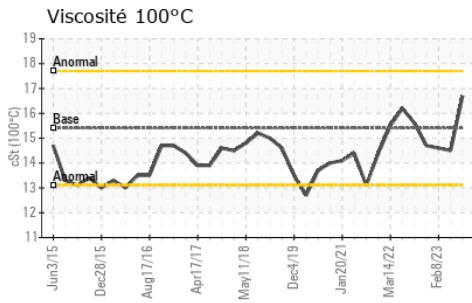
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>35	<b>6</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	15	<1
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>	0.0	NEG
% de suie	%	ASTM D7844*	>7.5	<b>1.5</b>	0.7	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>17.8</b>	13.8	14.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>37.7</b>	27.4	29.8
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>7</b>	3	2
Bore	ppm	ASTM D5185(m)	0	<b>3</b>	3	3
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdène	ppm	ASTM D5185(m)	60	<b>91</b>	81	83
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnésium	ppm	ASTM D5185(m)	1010	<b>1467</b>	1309	1349
Calcium	ppm	ASTM D5185(m)	1070	<b>1640</b>	1424	1570
Phosphore	ppm	ASTM D5185(m)	1150	<b>1475</b>	1343	1446
Zinc	ppm	ASTM D5185(m)	1270	<b>1770</b>	1601	1668
Soufre	ppm	ASTM D5185(m)	2060	<b>3082</b>	2797	2958
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>38.3</b>	25.0	29.4
Visc 100°C	cSt	ASTM D7279(m)	15.4	<b>16.7</b>	14.5	14.6



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0889983  
**N° de laboratoire** : 02617361  
**Reçu** : 22 Feb 2024  
**Tested** : 22 Feb 2024  
**Numéro unique** : 5734471  
**Diagnostiqué** : 22 Feb 2024 - Kevin Marson  
**Analyse** : MOB 1

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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.