

Machine Id
INTERNATIONAL 1059
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- LTR)

RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0073164	PC0066931	PC0065763
Sample Date		Client Info		02 Oct 2023	13 Jan 2023	10 Nov 2022
Machine Age	kms	Client Info		197807	160960	151475
Oil Age	kms	Client Info		31847	52682	43197
Filter Age	kms	Client Info		31847	52682	43197
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>90	41	66	53
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	13	19	16
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

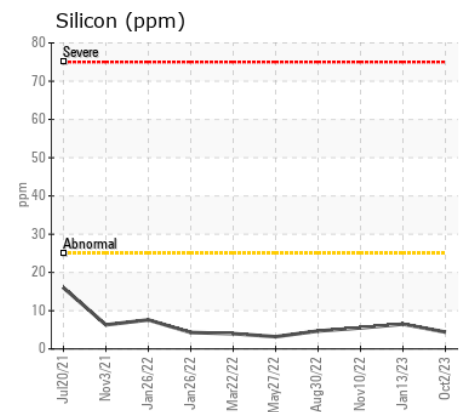
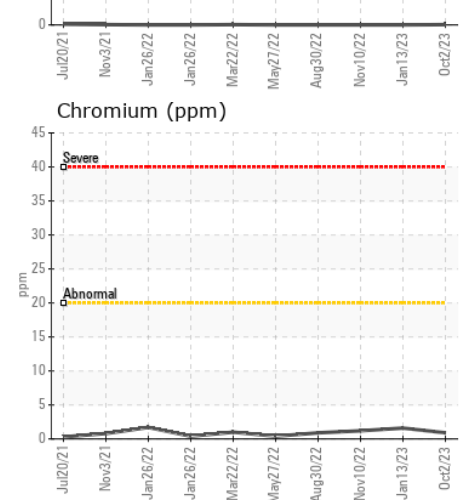
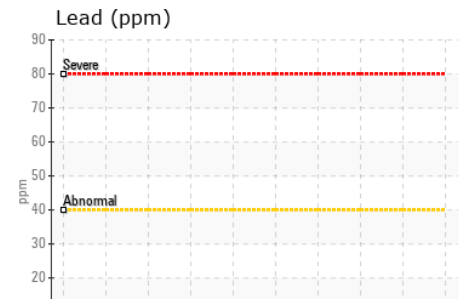
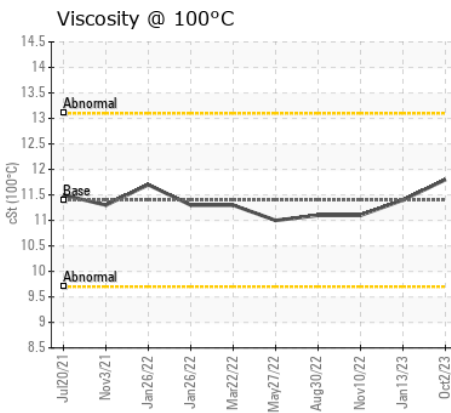
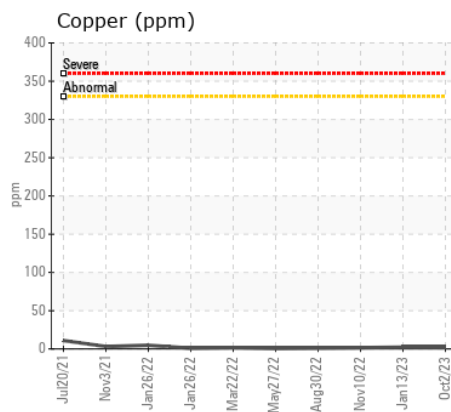
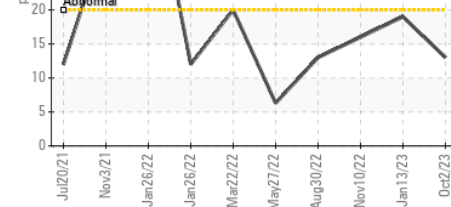
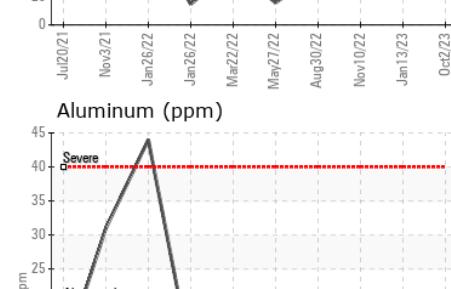
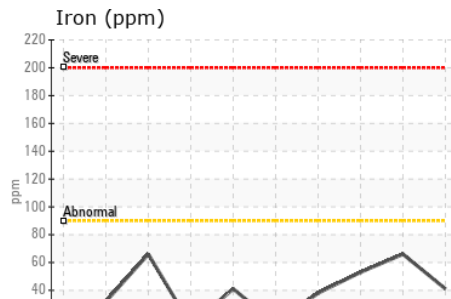
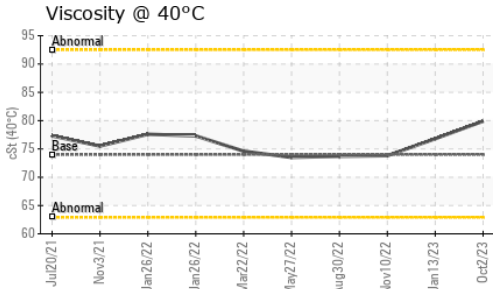
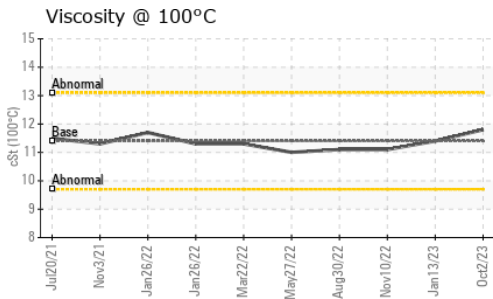
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	4	6	6
Potassium	ppm	ASTM D5185(m)	>20	13	24	23
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.8	0.9	0.7
Nitration	Abs/cm	ASTM D7624*	>20	14.6	14.4	13.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	27.9	25.5
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	1	1	3	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	60	62	60
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	959	968	946
Calcium	ppm	ASTM D5185(m)	2942	1066	1163	1116
Phosphorus	ppm	ASTM D5185(m)	1102	1012	1091	1031
Zinc	ppm	ASTM D5185(m)	1351	1168	1244	1198
Sulfur	ppm	ASTM D5185(m)	3903	2510	2479	2471
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.2	23.9	21.4
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	79.9	76.8	73.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.8	11.4	11.1
Viscosity Index (VI)	Scale	ASTM D2270*	146	141	140	140



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073164 **Received** : 12 Jan 2024
Lab Number : 02608497 **Diagnosed** : 15 Jan 2024
Unique Number : 5709583 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.