

Machine Id
INTERNATIONAL 323
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- LTR)

RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0075391	PC0072773	PC0067694
Sample Date		Client Info		09 May 2023	09 May 2023	27 Feb 2023
Machine Age	kms	Client Info		469126	469126	450518
Oil Age	kms	Client Info		56773	56773	380165
Filter Age	kms	Client Info		56773	56773	380165
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Usure de cylindre, de vilebrequin ou d'arbre à cames.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>100	▲ 105	95	31
Chromium	ppm	ASTM D5185(m)	>20	3	3	2
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	10	9	6
Lead	ppm	ASTM D5185(m)	>40	5	4	3
Copper	ppm	ASTM D5185(m)	>330	2	2	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	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.

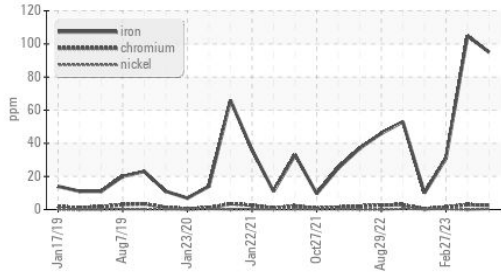
Silicon	ppm	ASTM D5185(m)	>25	6	5	4
Potassium	ppm	ASTM D5185(m)	>20	13	13	5
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.8	0.7	0.3
Nitration	Abs/cm	ASTM D7624*	>20	13.7	12.7	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.8	23.5	21.3
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

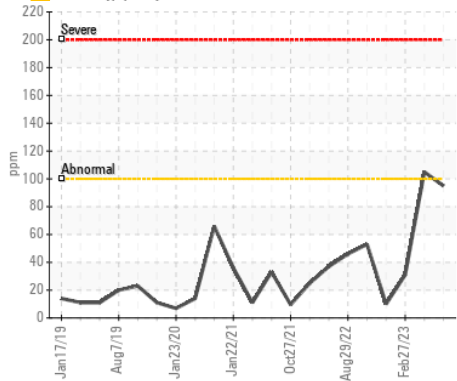
l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		2	4	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	62	62	61
Manganese	ppm	ASTM D5185(m)	1	1	1	<1
Magnesium	ppm	ASTM D5185(m)	10	1009	1000	986
Calcium	ppm	ASTM D5185(m)	2942	1088	1095	1139
Phosphorus	ppm	ASTM D5185(m)	1102	1059	1090	1102
Zinc	ppm	ASTM D5185(m)	1351	1216	1217	1225
Sulfur	ppm	ASTM D5185(m)	3903	2391	2450	2606
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.5	20.0	18.5
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	78.8	76.6	74.6
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.7	11.5	11.2
Viscosity Index (VI)	Scale	ASTM D2270*	146	141	142	140

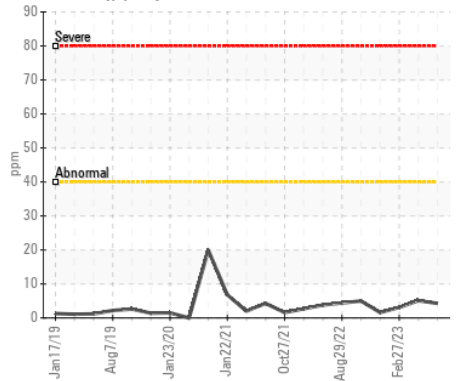
▲ Ferrous Alloys



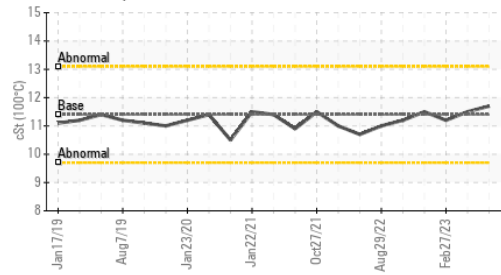
▲ Iron (ppm)



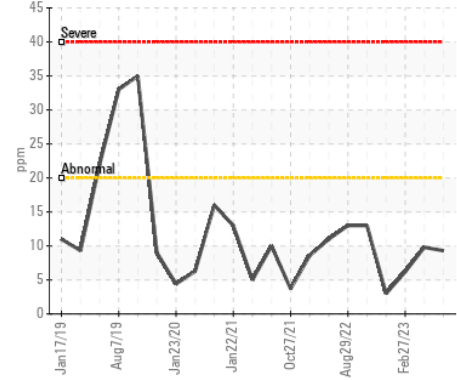
▲ Lead (ppm)



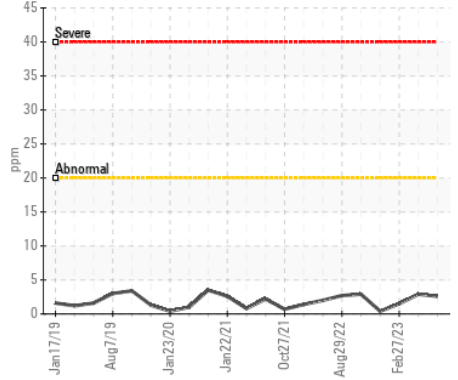
Viscosity @ 100°C



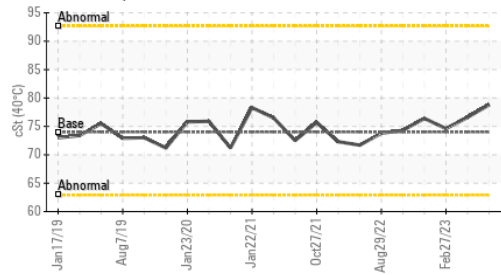
Aluminum (ppm)



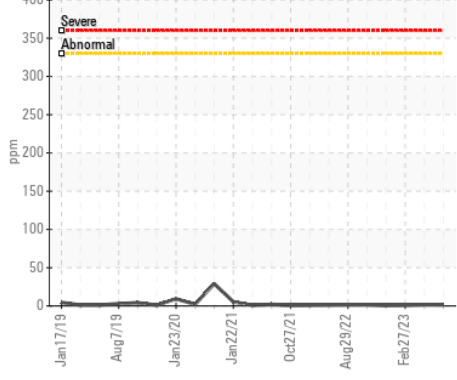
Chromium (ppm)



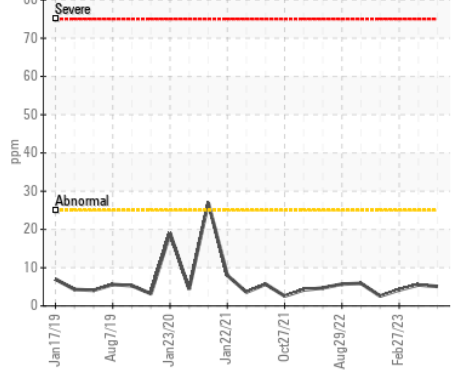
Viscosity @ 40°C



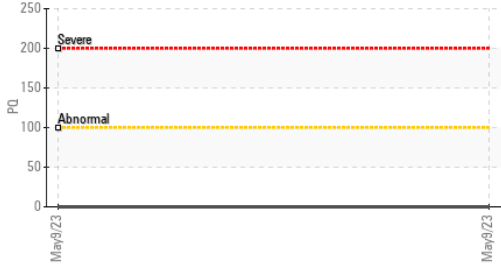
Copper (ppm)



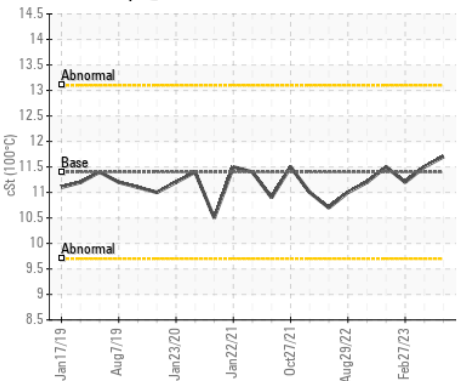
Silicon (ppm)



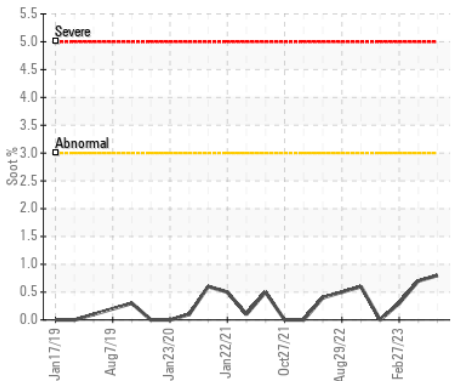
PQ



Viscosity @ 100°C



Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075391 **Received** : 22 Aug 2023
Lab Number : 02577354 **Diagnosed** : 23 Aug 2023
Unique Number : 5630414 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, PQ, 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.