



RAPPORT D'ANALYSE D'HUILE

USURE	ANORMAL
CONTAMINATION	SÉVÈRE
ÉTAT DU FLUIDE	NORMAL

Secteur
[208085]
 Identité de la machine
74917669

Composant
Moteur diesel
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		CU0022681	---	---
Date d'échant.		Client Info		21 Mar 2024	---	---
Âge d la Machine	hrs	Client Info		5500	---	---
Âge de l'huile	hrs	Client Info		0	---	---
Âge du filtre	hrs	Client Info		0	---	---
Huile changée		Client Info		N/A	---	---
Filtre changé		Client Info		N/A	---	---
Statut de l'échant.				SEVERE	---	---

USURE

Lead ppm levels are abnormal. Bearing wear is indicated.

Fer	ppm	ASTM D5185(m)	>75	7	---	---
Chrome	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>4	0	---	---
Titane	ppm	ASTM D5185(m)	>2	0	---	---
Argent	ppm	ASTM D5185(m)	>2	0	---	---
Aluminium	ppm	ASTM D5185(m)	>15	<1	---	---
Plomb	ppm	ASTM D5185(m)	>25	▲ 29	---	---
Cuivre	ppm	ASTM D5185(m)	>100	83	---	---
Étain	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

Test for glycol is positive. There is a high concentration of glycol present in the oil.

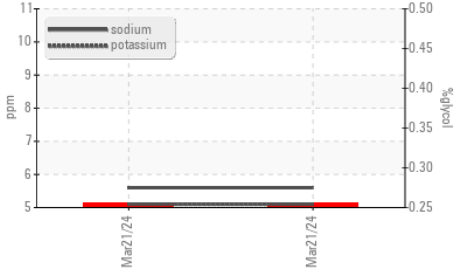
Silicium	ppm	ASTM D5185(m)	>25	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 5	---	---
Essence		WC Method	>3.0	<1.0	---	---
L'eau		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		▲ 0.255	---	---
% de suie	%	ASTM D7844*	>6	0.1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.4	---	---
Sulfatation	Abs/.1mm	ASTM D7415*	>30	20.8	---	---
Eau émulsifiée	scalar	Visual*	>0.2	NEG	---	---

ÉTAT DU FLUIDE

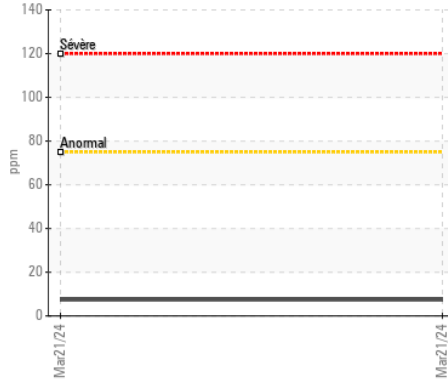
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		6	---	---
Bore	ppm	ASTM D5185(m)	0	88	---	---
Baryum	ppm	ASTM D5185(m)	0	0	---	---
Molybdène	ppm	ASTM D5185(m)	60	0	---	---
Manganèse	ppm	ASTM D5185(m)	0	0	---	---
Magnésium	ppm	ASTM D5185(m)	1010	704	---	---
Calcium	ppm	ASTM D5185(m)	1070	1161	---	---
Phosphore	ppm	ASTM D5185(m)	1150	957	---	---
Zinc	ppm	ASTM D5185(m)	1270	1088	---	---
Soufre	ppm	ASTM D5185(m)	2060	2952	---	---
Oxydation	Abs/.1mm	ASTM D7414*	>25	14.8	---	---
Visc 100°C	cSt	ASTM D7279(m)	15.4	14.2	---	---

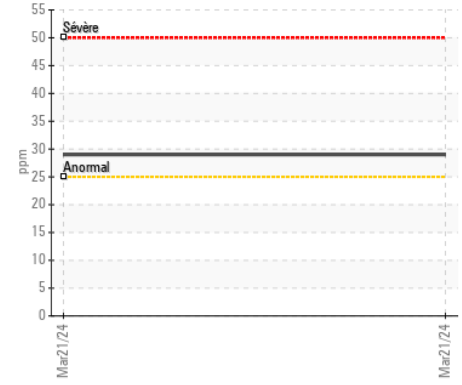
▲ Contamination par le glycol



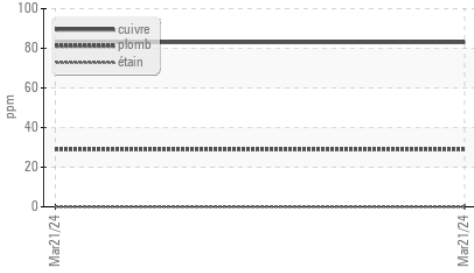
Fer (ppm)



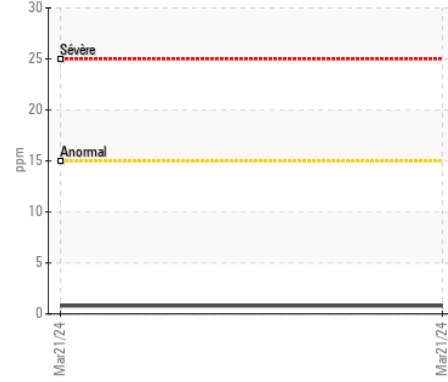
▲ Plomb (ppm)



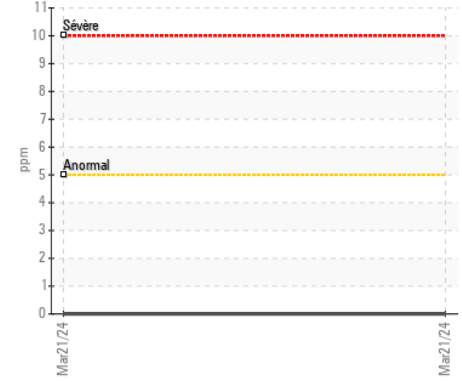
▲ Métaux non-ferreux



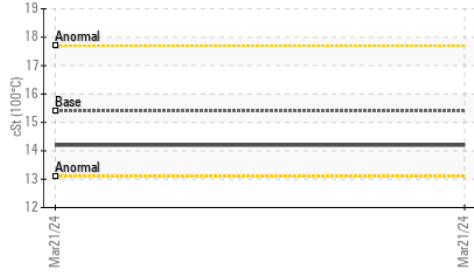
Aluminium (ppm)



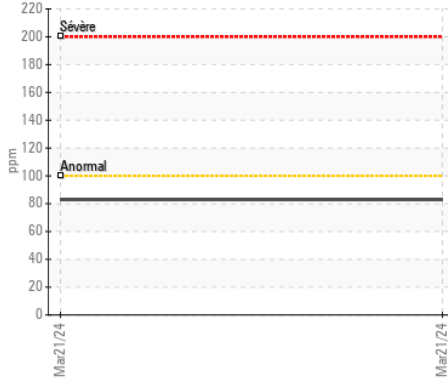
Chrome (ppm)



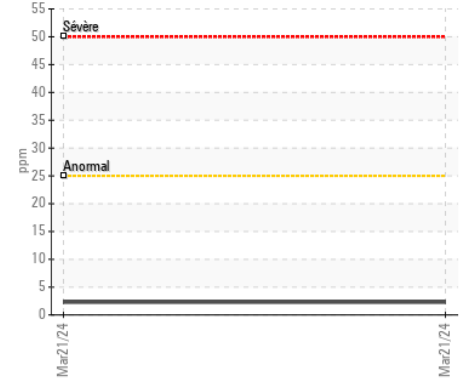
Viscosité 100°C



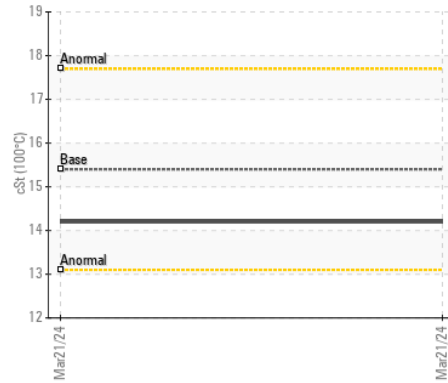
Cuivre (ppm)



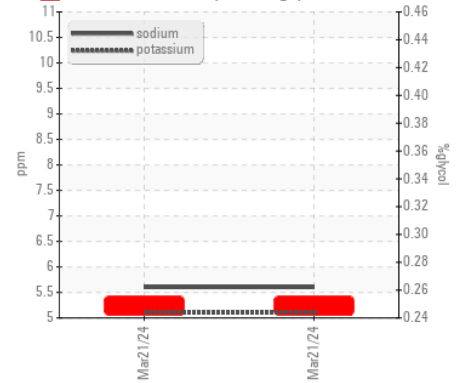
Silicium (ppm)



Viscosité 100°C



▲ Contamination par le glycol



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : CU0022681 **Reçu** : 27 Mar 2024
N° de laboratoire : 02624836 **Tested** : 27 Mar 2024
Numéro unique : 5749955 **Diagnostiqué** : 27 Mar 2024 - Kevin Marson
Analyse : MOB 1 (Additional Tests: Glycol)

CUMMINS CANADA ULC
 7200 TRANS CANADA HWY.
 POINTE CLAIRE, QC
 CA H9R 1C2
 Contact: Francois Brault
 Francois.Brault@cummins.com
 T: (514)695-8410
 F: (514)695-5246

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.