



RAPPORT D'ANALYSE D'HUILE

USURE	ANORMAL
CONTAMINATION	ANORMAL
ÉTAT DU FLUIDE	ANORMAL



Secteur
[49243]
 Identité de la machine
CATERPILLAR 1EZ03468
 Composant
Moteur diesel
 Fluide
DIESEL ENGINE OIL SAE 40 (--- 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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		CU	CU0017527	---
Date d'échant.		Client Info		03 Oct 2023	06 Nov 2021	---
Âge d la Machine	hrs	Client Info		0	1335	---
Âge de l'huile	hrs	Client Info		0	0	---
Âge du filtre	hrs	Client Info		0	0	---
Huile changée		Client Info		N/A	Changed	---
Filtre changé		Client Info		N/A	Changed	---
Statut de l'échant.				ABNORMAL	ABNORMAL	---

USURE

Copper ppm levels are abnormal. Bearing wear is indicated.

Fer	ppm	ASTM D5185(m)	>100	8	6	---
Chrome	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titane	ppm	ASTM D5185(m)	>2	0	0	---
Argent	ppm	ASTM D5185(m)	>2	<1	0	---
Aluminium	ppm	ASTM D5185(m)	>25	2	1	---
Plomb	ppm	ASTM D5185(m)	>40	11	7	---
Cuivre	ppm	ASTM D5185(m)	>330	▲ 366	238	---
Étain	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

Test for glycol is positive. Light fuel dilution occurring. There is a light concentration of glycol present in the oil. No other contaminants were detected in the oil.

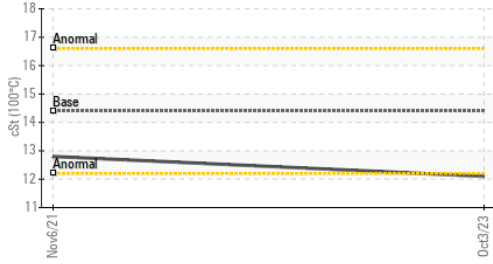
Silicium	ppm	ASTM D5185(m)	>25	4	3	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 14	▲ 11	---
Essence	%	ASTM D7593*	>5	▲ 4.9	<1.0	---
Glycol	%	ASTM D7922*		▲ 0.035	▲ 0.056	---
% de suie	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.1	7.8	---
Sulfatation	Abs/.1mm	ASTM D7415*	>30	19.6	21.2	---
Eau émulsifiée	scalar	Visual*	>0.2	NEG	NEG	---

ÉTAT DU FLUIDE

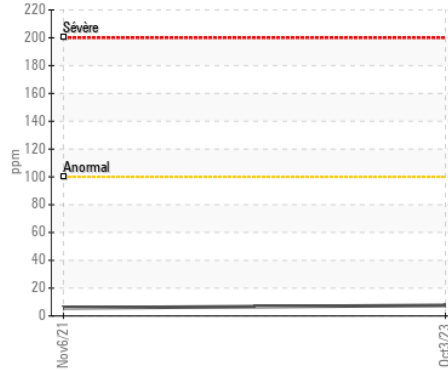
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)	>216	▲ 272	▲ 183	---
Bore	ppm	ASTM D5185(m)	250	14	22	---
Baryum	ppm	ASTM D5185(m)	10	<1	0	---
Molybdène	ppm	ASTM D5185(m)	100	85	62	---
Manganèse	ppm	ASTM D5185(m)		0	<1	---
Magnésium	ppm	ASTM D5185(m)	450	682	547	---
Calcium	ppm	ASTM D5185(m)	3000	1249	1495	---
Phosphore	ppm	ASTM D5185(m)	1150	780	1028	---
Zinc	ppm	ASTM D5185(m)	1350	901	1149	---
Soufre	ppm	ASTM D5185(m)	4250	1992	2569	---
Oxydation	Abs/.1mm	ASTM D7414*	>25	18.5	16.6	---
Visc 100°C	cSt	ASTM D7279(m)	14.4	▲ 12.1	12.8	---

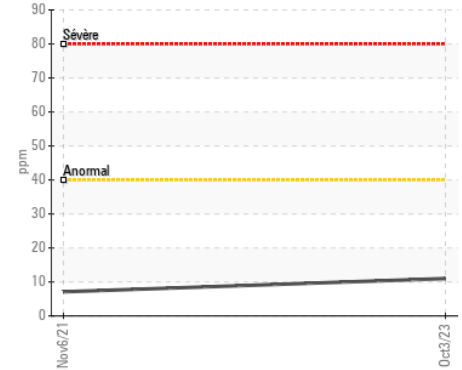
▲ Viscosité 100°C



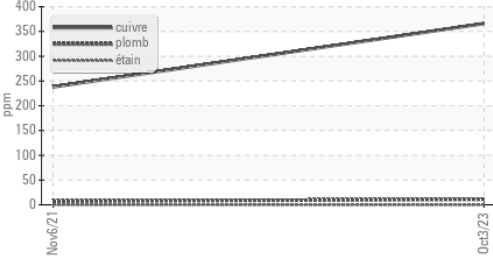
Fer (ppm)



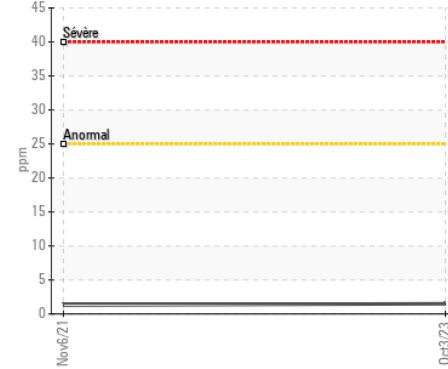
Plomb (ppm)



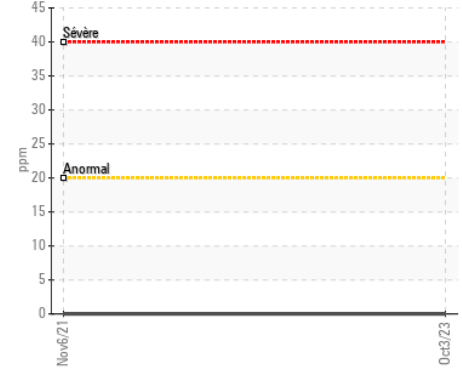
▲ Métaux non-ferreux



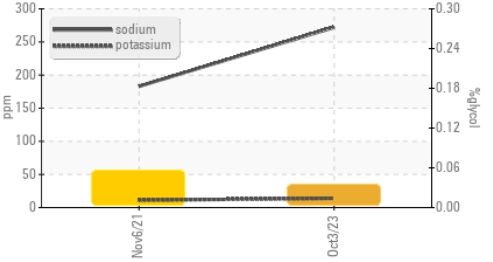
Aluminium (ppm)



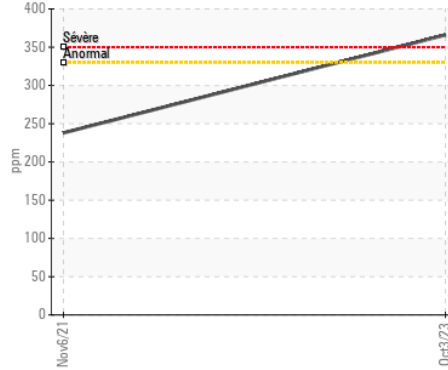
Chrome (ppm)



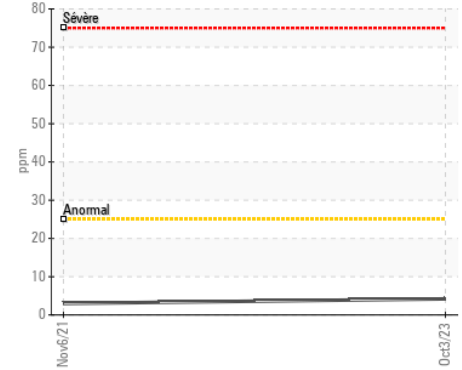
▲ Contamination par le glycol



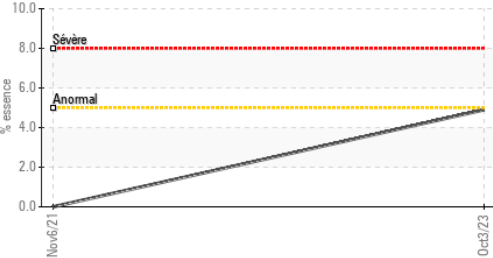
▲ Cuivre (ppm)



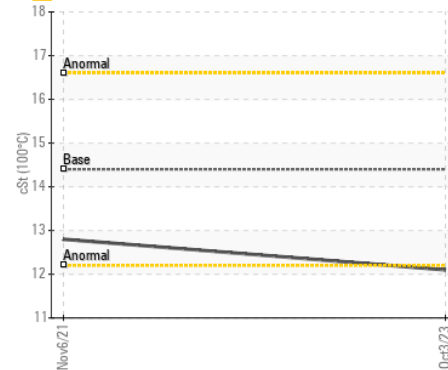
Silicium (ppm)



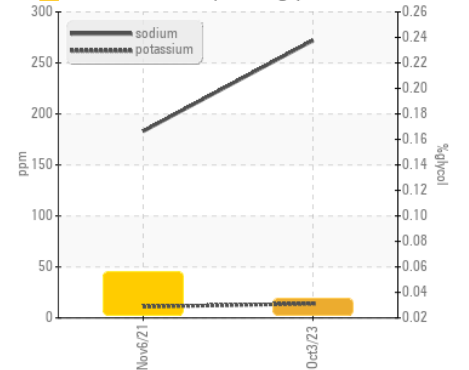
▲ Dilution par le carburant



▲ Viscosité 100°C



▲ Contamination par le glycol



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : CU **Reçu** : 01 Nov 2023
N° de laboratoire : 02593180 **Diagnostiqué** : 03 Nov 2023
Numéro unique : 5670259 **Diagnostiqueur** : Kevin Marson
Analyse : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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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.