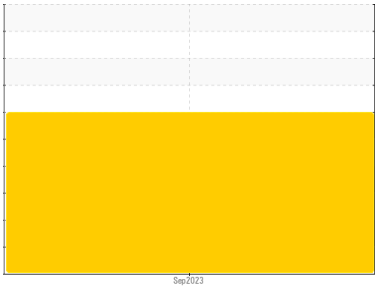
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
CARL BEAULOC
Machine Id
47391050554693
Component
Diesel Engine
Fluid
NOT GIVEN (--- LTR)

DIAGNOSIS

Recommendation

Nous vous recommandons de surveiller la baisse de pression anormale et le bruit. 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. Le fluide n'était pas spécifié, toutefois, une comparaison avec d'autres fluides indiqu que ce fluide est du SAE 40 Diesel Engine Oil. Veuillez confirmer la viscosité de l`huile et veuillez préciser la marque de votre prochain échantillon.

Wear

Usure de palier.

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.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l`huile. l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0019416**	---	---
Sample Date		Client Info		**28 Sep 2023**	---	---
Machine Age	kms	Client Info		**901603**	---	---
Oil Age	kms	Client Info		**0**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**SEVERE**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	---	---
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	**50**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**3**	---	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	---	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	---	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>30	**9**	---	---
Lead	ppm	ASTM D5185(m)	>30	**15**	---	---
Copper	ppm	ASTM D5185(m)	>30	**559**	---	---
Tin	ppm	ASTM D5185(m)	>15	**2**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

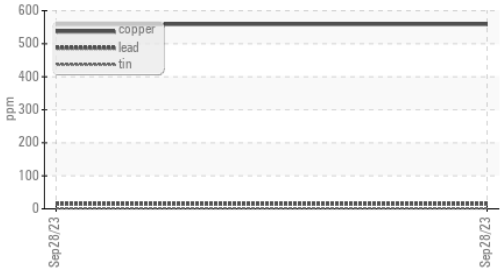
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**8**	---	---
Manganese	ppm	ASTM D5185(m)		**3**	---	---
Magnesium	ppm	ASTM D5185(m)		**107**	---	---
Calcium	ppm	ASTM D5185(m)		**2380**	---	---
Phosphorus	ppm	ASTM D5185(m)		**888**	---	---
Zinc	ppm	ASTM D5185(m)		**1050**	---	---
Sulfur	ppm	ASTM D5185(m)		**2437**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**6**	---	---
Sodium	ppm	ASTM D5185(m)		**7**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**20**	---	---

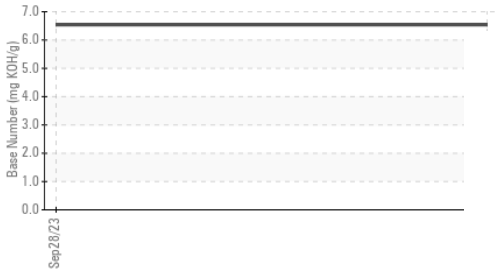
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.2**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**7.6**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.2**	---	---

OIL ANALYSIS REPORT

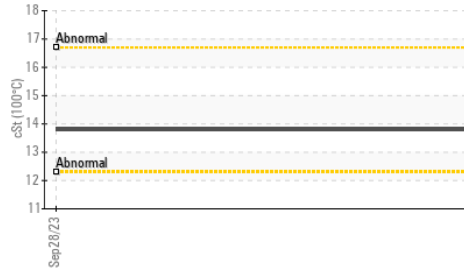
Non-ferrous Metals



Base Number



Viscosity @ 100°C



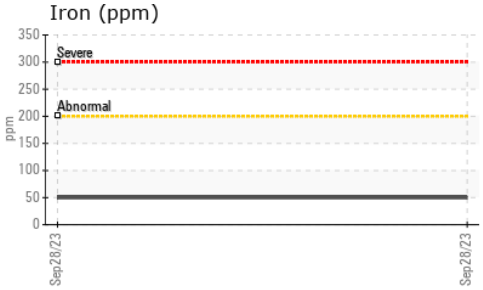
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.7**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		**6.54**	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

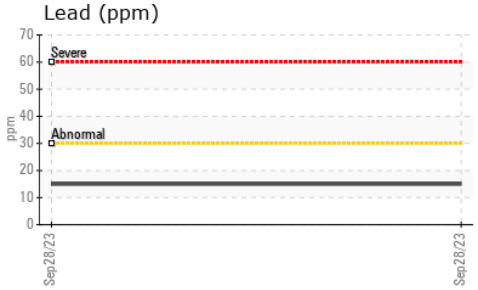
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		**13.8**	---	---

GRAPHS

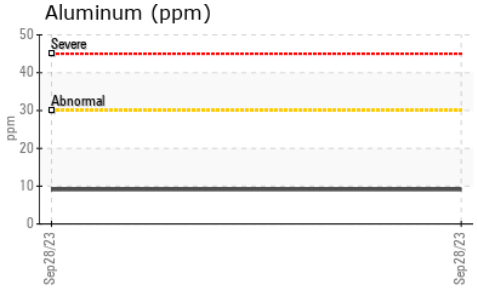
Iron (ppm)



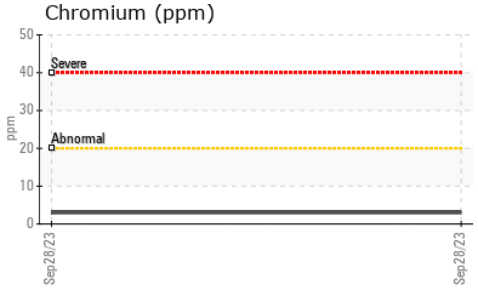
Lead (ppm)



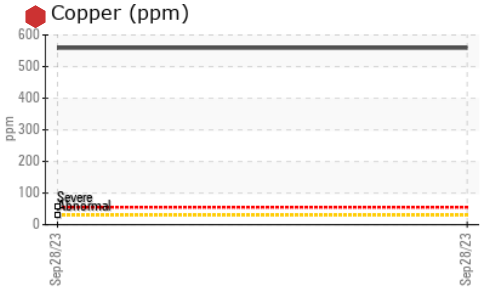
Aluminum (ppm)



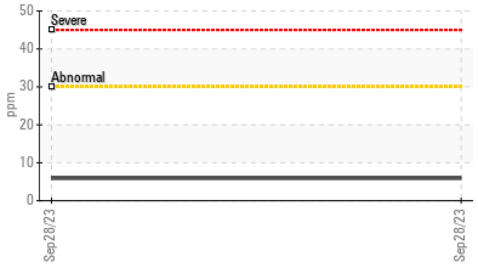
Chromium (ppm)



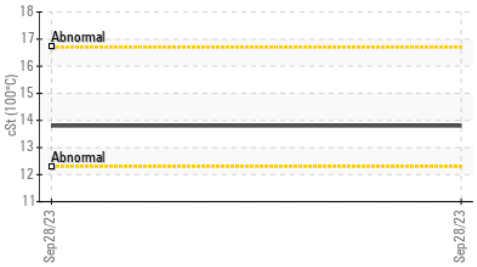
Copper (ppm)



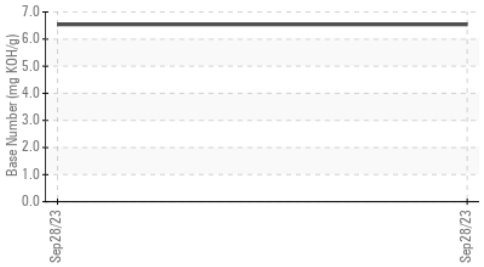
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019416 **Received** : 06 Oct 2023
Lab Number : 02587522 **Diagnosed** : 11 Oct 2023
Unique Number : 5656588 **Diagnostician** : Kevin Marson
Test Package : MOB 2

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.

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