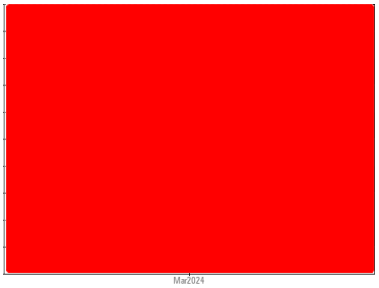
OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Area
[6100273041]
Machine Id
472910S0774617
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

▲ Recommendation

Nous vous recommandons de vérifier la présence de particules métalliques visibles dans l`huile. Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

▲ Wear

Nous avons supposé que l`huile a été prélevée chaude, selon les directives d`échantillonnage. Usure de cylindre, de vilebrequin ou d`arbre à cames. Usure de la soupape d`échappement. Usure de piston. Présence d`une concentration moyenne de métal visible. Le très haut indice ferreux (PQ) indique la présence d'une usure importante.

Contamination

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		**WA0020778**	---	---
Sample Date		Client Info		**12 Mar 2024**	---	---
Machine Age	mls	Client Info		**106193**	---	---
Oil Age	mls	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	---	---
Water		WC Method	>0.2	**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ **226**	---	---
Iron	ppm	ASTM D5185(m)	>200	▲ **266**	---	---
Chromium	ppm	ASTM D5185(m)	>6	**3**	---	---
Nickel	ppm	ASTM D5185(m)	>3	▲ **4**	---	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	---	---
Silver	ppm	ASTM D5185(m)	>2	**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>50	**33**	---	---
Lead	ppm	ASTM D5185(m)	>10	**3**	---	---
Copper	ppm	ASTM D5185(m)	>50	**129**	---	---
Tin	ppm	ASTM D5185(m)	>6	▲ **8**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

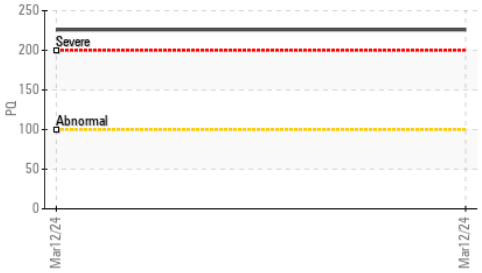
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**1**	---	---
Barium	ppm	ASTM D5185(m)	10	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	100	**59**	---	---
Manganese	ppm	ASTM D5185(m)		**3**	---	---
Magnesium	ppm	ASTM D5185(m)	450	**979**	---	---
Calcium	ppm	ASTM D5185(m)	3000	**1088**	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	**1025**	---	---
Zinc	ppm	ASTM D5185(m)	1350	**1176**	---	---
Sulfur	ppm	ASTM D5185(m)	4250	**2603**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**8**	---	---
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**14**	---	---
Glycol	%	ASTM D7922*		**0.0**	---	---

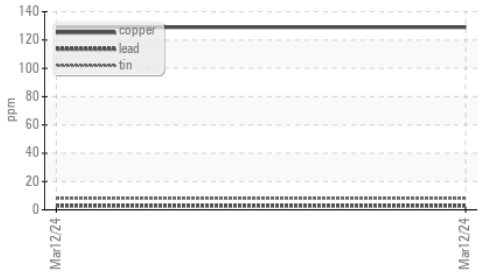
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.3**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**7.7**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.5**	---	---

OIL ANALYSIS REPORT

PQ

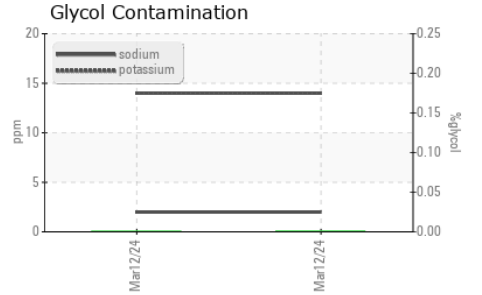


Non-ferrous Metals

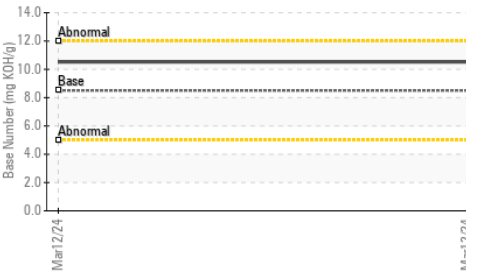


Ferrous Alloys

Glycol Contamination



Base Number



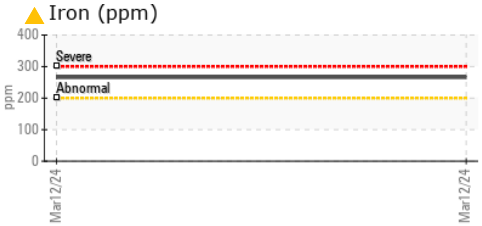
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.3**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	**10.52**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ **LTMOD**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

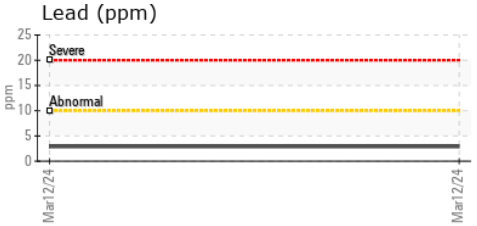
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.3**	---	---

GRAPHS

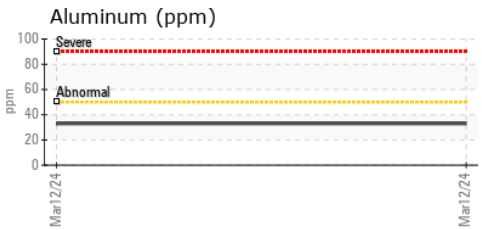
Iron (ppm)



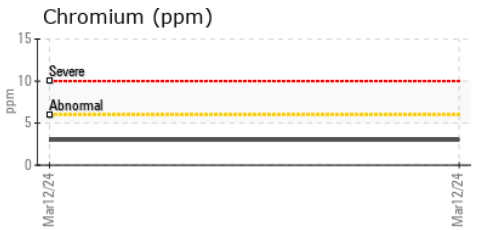
Lead (ppm)



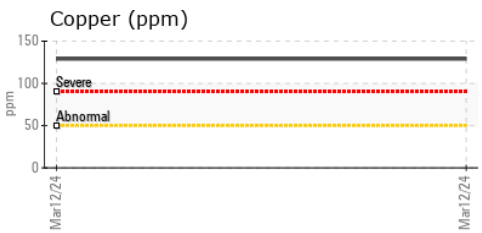
Aluminum (ppm)



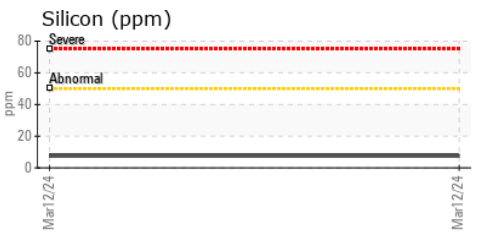
Chromium (ppm)



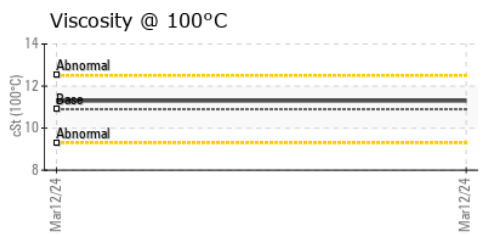
Copper (ppm)



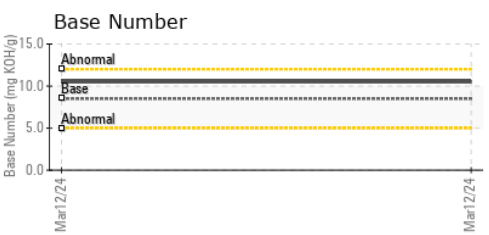
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020778 **Received** : 14 Mar 2024
Lab Number : 02621945 **Tested** : 15 Mar 2024
Unique Number : 5747064 **Diagnosed** : 17 Mar 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: BottomAnalysis, FILTERPATCH, Glycol, PQ, Visual)

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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