

OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

Area
[6100239995]
Machine Id
47291251083761
Component
Diesel Engine
Fluid
{not provided} (--- 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. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon.

Wear

Présence d'une concentration moyenne de métal visible. Il y a indication d'usure du piston et du cylindre. Usure de piston. Nous avons supposé que ce composant n'est pas en rodage (âge du composant non indiqué).

Contamination

La teneur en carburant est négligeable. 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

La viscosité de l'échantillon se situe dans la portée de l'SAE 20; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WA0021113	---	---
Sample Date	Client Info	12 Dec 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>200	147	---	---
Chromium ppm ASTM D5185(m)	>6	<1	---	---
Nickel ppm ASTM D5185(m)	>3	1	---	---
Titanium ppm ASTM D5185(m)	>2	0	---	---
Silver ppm ASTM D5185(m)	>2	<1	---	---
Aluminum ppm ASTM D5185(m)	>50	19	---	---
Lead ppm ASTM D5185(m)	>10	2	---	---
Copper ppm ASTM D5185(m)	>50	66	---	---
Tin ppm ASTM D5185(m)	>6	▲ 7	---	---
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)		52	---	---
Barium ppm ASTM D5185(m)		<1	---	---
Molybdenum ppm ASTM D5185(m)		39	---	---
Manganese ppm ASTM D5185(m)		4	---	---
Magnesium ppm ASTM D5185(m)		484	---	---
Calcium ppm ASTM D5185(m)		1653	---	---
Phosphorus ppm ASTM D5185(m)		714	---	---
Zinc ppm ASTM D5185(m)		820	---	---
Sulfur ppm ASTM D5185(m)		1937	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

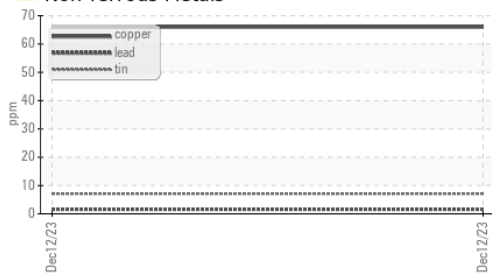
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>50	7	---	---
Sodium ppm ASTM D5185(m)		6	---	---
Potassium ppm ASTM D5185(m)	>20	25	---	---
Fuel % ASTM D7593*	>3.0	0.6	---	---

INFRA-RED

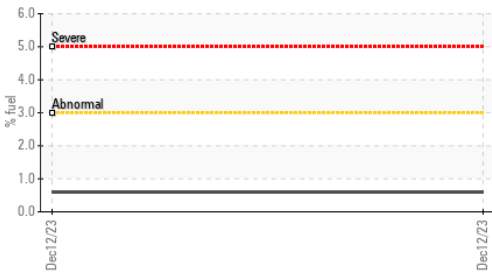
method	limit/base	current	history1	history2
Soot % ASTM D7844*	>3	0	---	---
Nitration Abs/cm ASTM D7624*	>20	5.6	---	---
Sulfation Abs./1mm ASTM D7415*	>30	22.8	---	---

OIL ANALYSIS REPORT

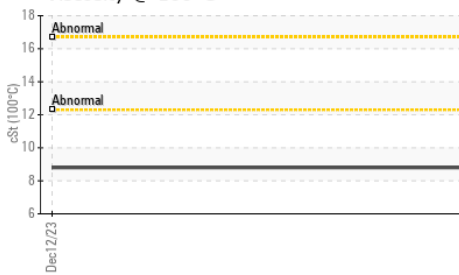
▲ Non-ferrous Metals



Fuel Dilution



Viscosity @ 100°C

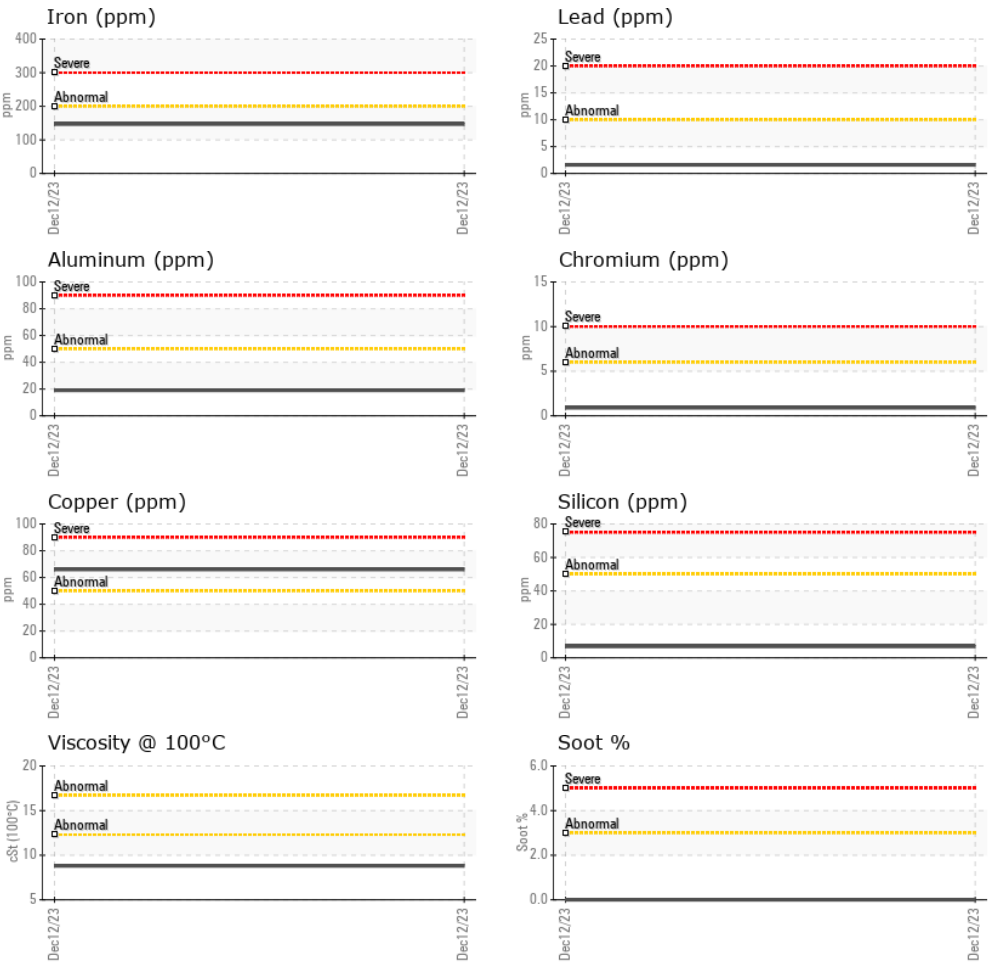


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	20.2	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	▲ LIGHT	---	---
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)	8.8	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021113 **Received** : 15 Dec 2023
Lab Number : **02603391** **Diagnosed** : 20 Dec 2023
Unique Number : 5696476 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, FuelDilution, PercentFuel, 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.