



OIL ANALYSIS REPORT

Sample Rating Trend

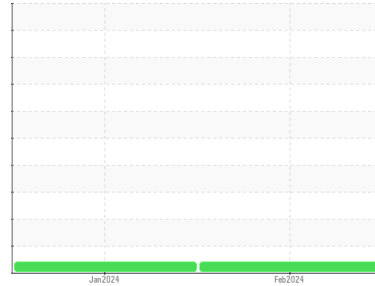
VISCOSITY



Machine Id
813106

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- LTR)



DIAGNOSIS

Recommendation

Aucune mesure corrective n'est recommandée pour l'instant. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

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 30; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0079085	GFL0079081	---
Sample Date	Client Info	19 Feb 2024	16 Jan 2024	---
Machine Age	kms Client Info	39308	34978	---
Oil Age	kms Client Info	0	0	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	---
Glycol	WC Method	NEG	0.0	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >80	9	33	---
Chromium	ppm ASTM D5185(m) >5	<1	1	---
Nickel	ppm ASTM D5185(m) >2	0	<1	---
Titanium	ppm ASTM D5185(m)	0	0	---
Silver	ppm ASTM D5185(m) >3	0	0	---
Aluminum	ppm ASTM D5185(m) >30	8	33	---
Lead	ppm ASTM D5185(m) >30	0	0	---
Copper	ppm ASTM D5185(m) >150	<1	3	---
Tin	ppm ASTM D5185(m) >5	<1	<1	---
Antimony	ppm ASTM D5185(m)	0	0	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 250	4	9	---
Barium	ppm ASTM D5185(m) 10	0	<1	---
Molybdenum	ppm ASTM D5185(m) 100	57	59	---
Manganese	ppm ASTM D5185(m)	0	1	---
Magnesium	ppm ASTM D5185(m) 450	939	915	---
Calcium	ppm ASTM D5185(m) 3000	1038	1144	---
Phosphorus	ppm ASTM D5185(m) 1150	1016	965	---
Zinc	ppm ASTM D5185(m) 1350	1141	1129	---
Sulfur	ppm ASTM D5185(m) 4250	2715	2680	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

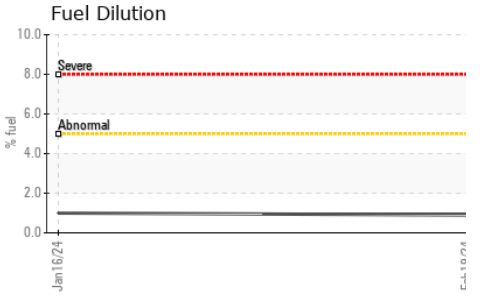
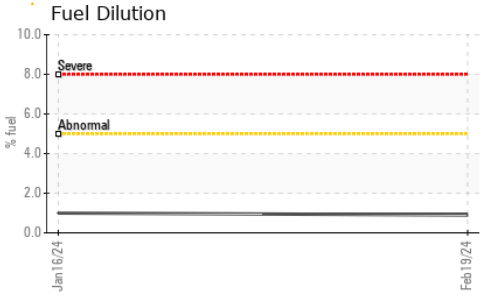
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	3	6	---
Sodium	ppm ASTM D5185(m) >158	3	5	---
Potassium	ppm ASTM D5185(m) >20	14	77	---
Fuel	% ASTM D7593* >5	0.9	1	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0.3	---
Nitration	Abs/cm ASTM D7624* >20	5.6	8.4	---
Sulfation	Abs./1mm ASTM D7415* >30	18.5	19.7	---



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FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs./1mm ASTM D7414*	>25	14.0	15.7	---

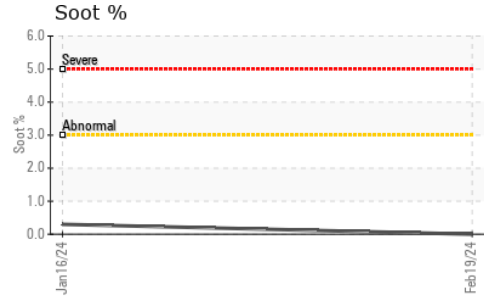
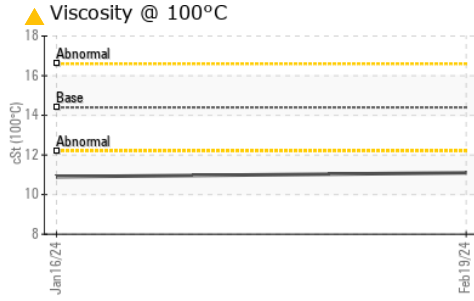
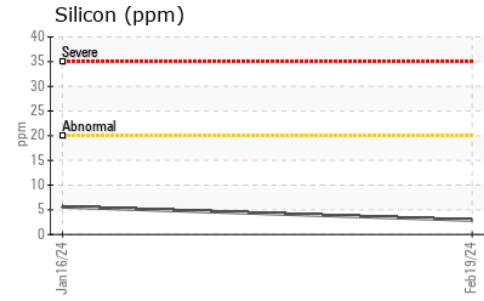
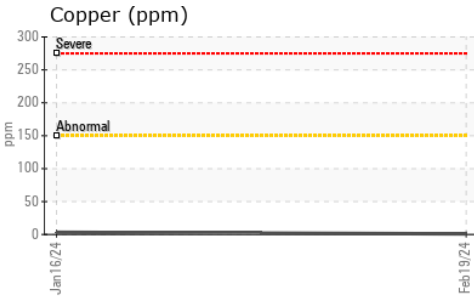
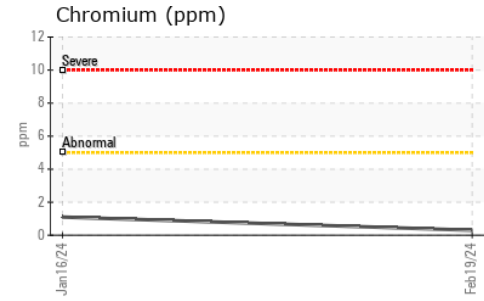
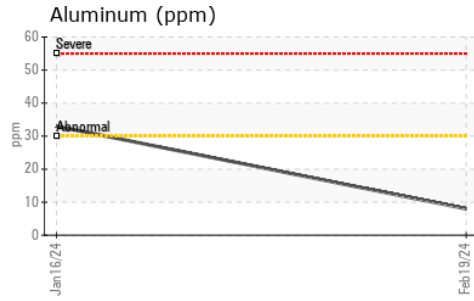
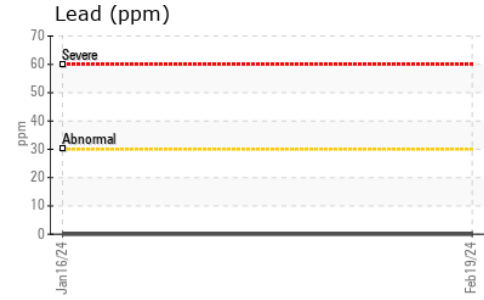
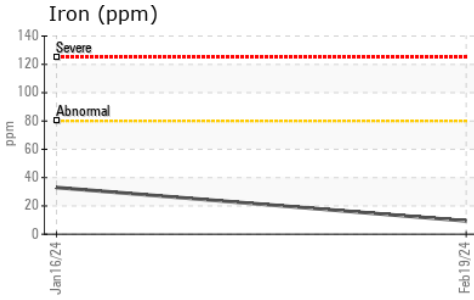
VISUAL

method	limit/base	current	history1	history2	
Emulsified Water	scalar Visual*	>0.2	NEG	.2%	---
Free Water	scalar Visual*		NEG	NEG	---

FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	14.4	▲ 11.1	▲ 10.9	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0079085 **Received** : 21 Feb 2024
Lab Number : 02616888 **Tested** : 23 Feb 2024
Unique Number : 5733998 **Diagnosed** : 23 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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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.