

# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Area  
**[6100272783]**  
Machine Id  
**3110123083**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier la source de l'infiltration d'eau. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Légère dilution de carburant dans l'huile. Légère concentration d'eau dans l'huile. Le test de glycol est négatif. Aucun autre contaminant n'a été détecté dans l'huile.

### Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. l'huile ne peut plus être utilisée en raison de la présence de contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WA0021321</b>	---	---
Sample Date	Client Info	<b>15 Mar 2024</b>	---	---
Machine Age	kms Client Info	<b>0</b>	---	---
Oil Age	kms Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>100	<b>7</b>	---	---
Chromium ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel ppm ASTM D5185(m)	>4	<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)	>3	<b>2</b>	---	---
Aluminum ppm ASTM D5185(m)	>20	<b>2</b>	---	---
Lead ppm ASTM D5185(m)	>40	<b>7</b>	---	---
Copper ppm ASTM D5185(m)	>330	<b>285</b>	---	---
Tin ppm ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium ppm ASTM D5185(m)		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	250	<b>1</b>	---	---
Barium ppm ASTM D5185(m)	10	<b>0</b>	---	---
Molybdenum ppm ASTM D5185(m)	100	<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)	450	<b>14</b>	---	---
Calcium ppm ASTM D5185(m)	3000	<b>2204</b>	---	---
Phosphorus ppm ASTM D5185(m)	1150	<b>943</b>	---	---
Zinc ppm ASTM D5185(m)	1350	<b>1056</b>	---	---
Sulfur ppm ASTM D5185(m)	4250	<b>3211</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

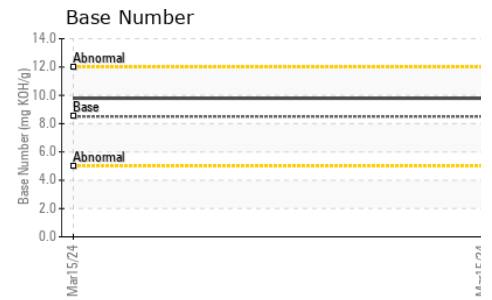
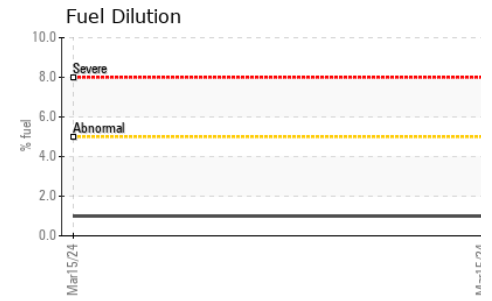
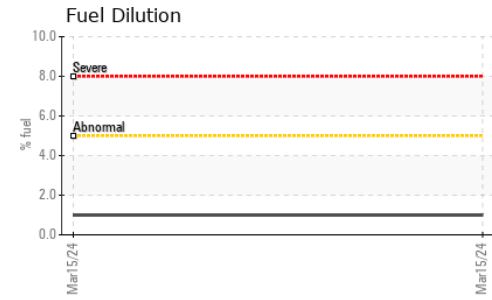
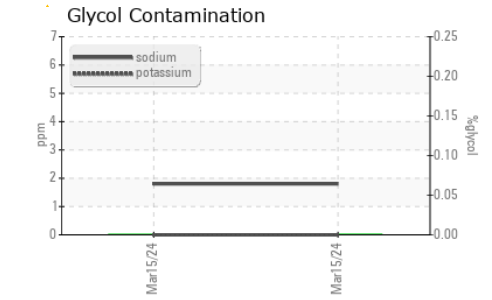
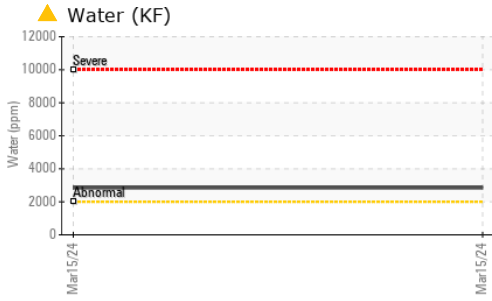
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	<b>3</b>	---	---
Sodium ppm ASTM D5185(m)	>158	<b>2</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Fuel % ASTM D7593*	>5	<b>1</b>	---	---
Water % ASTM D6304*	>0.2	<b>▲ 0.284</b>	---	---
ppm Water ppm ASTM D6304*	>2000	<b>▲ 2846</b>	---	---
Glycol % ASTM D7922*		<b>0.0</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot % ASTM D7844*	>3	<b>0</b>	---	---
Nitration Abs/cm ASTM D7624*	>20	<b>6.2</b>	---	---
Sulfation Abs/1mm ASTM D7415*	>30	<b>16.0</b>	---	---

# OIL ANALYSIS REPORT

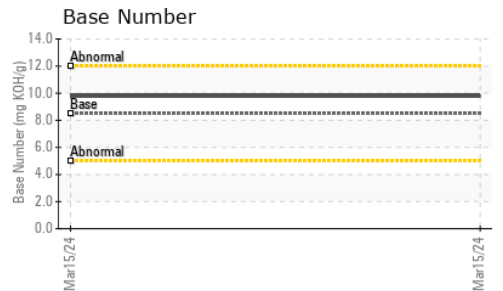
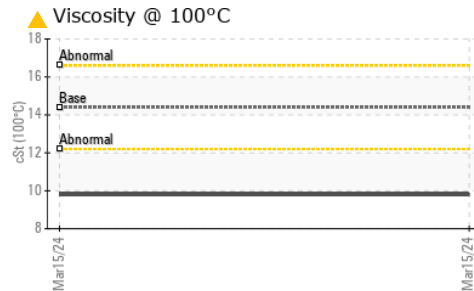
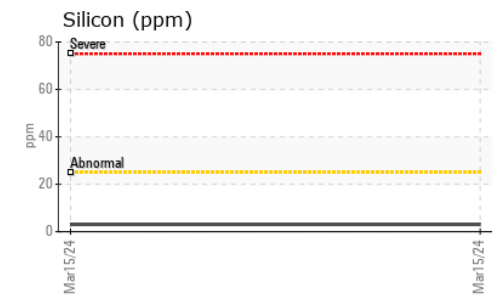
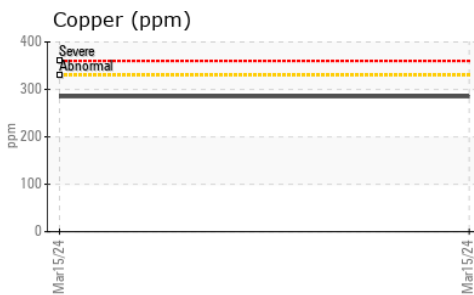
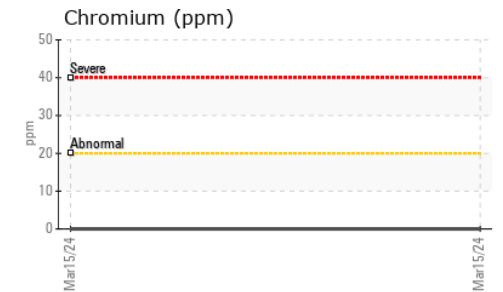
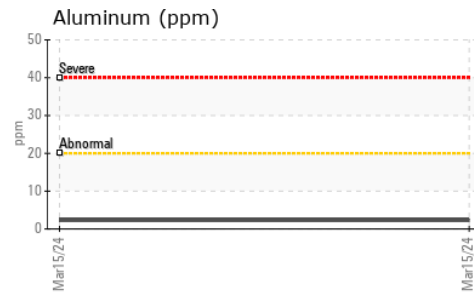
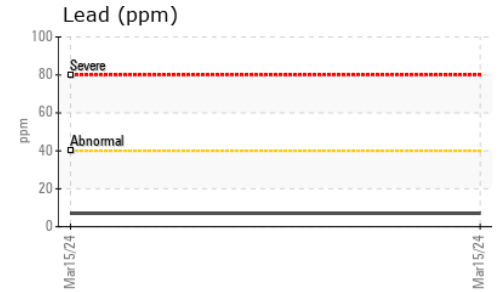
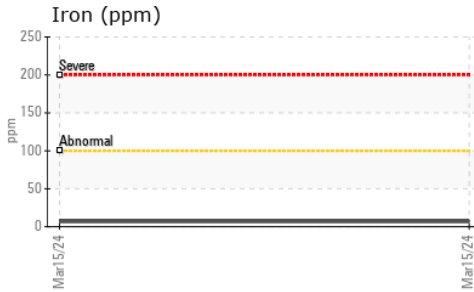


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	12.9	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.79	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 9.8	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021321 **Received** : 21 Mar 2024  
**Lab Number** : 02623681 **Tested** : 22 Mar 2024  
**Unique Number** : 5748800 **Diagnosed** : 22 Mar 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel )

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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