



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**CATERPILLAR C15 T5**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0724780</b>	---	---
Sample Date		Client Info		<b>12 Jan 2024</b>	---	---
Machine Age	mls	Client Info		<b>9198</b>	---	---
Oil Age	mls	Client Info		<b>9198</b>	---	---
Filter Age	mls	Client Info		<b>9198</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

Metal levels are typical for a components first oil change.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	---	---
Chromium	ppm	ASTM D5185m	>6	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

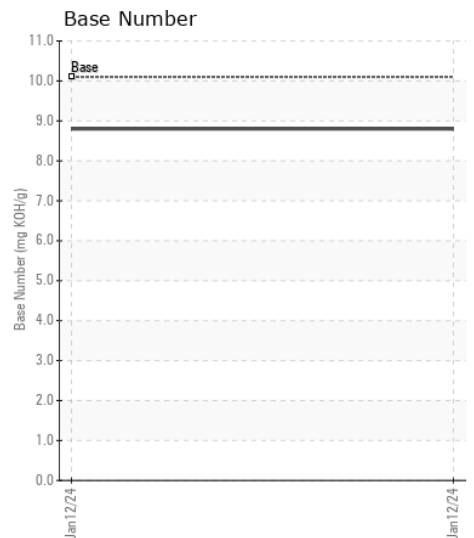
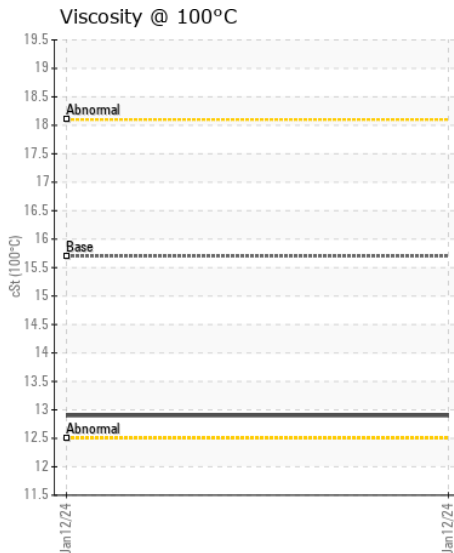
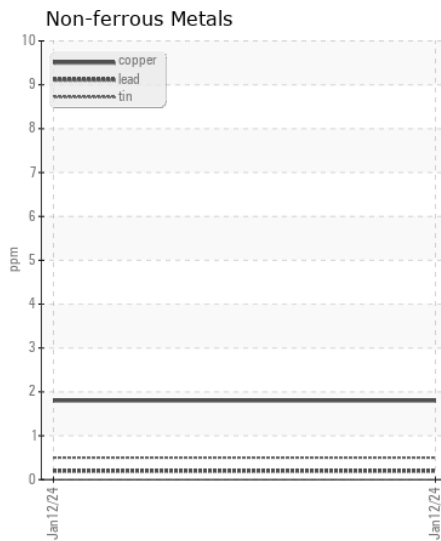
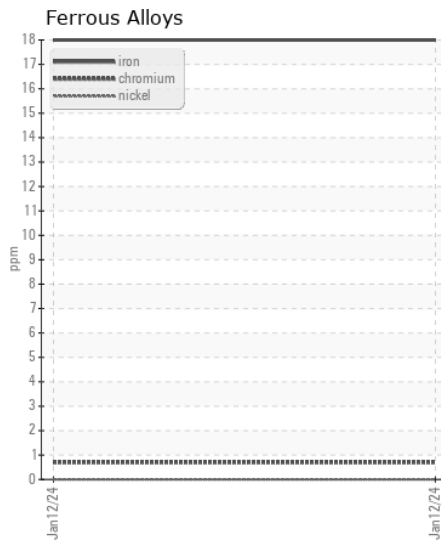
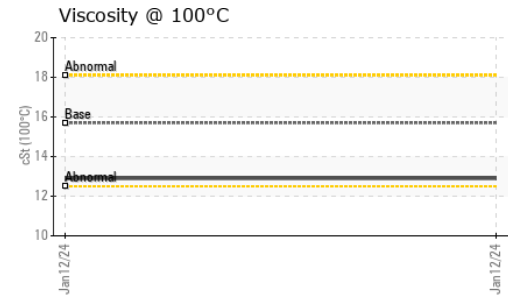
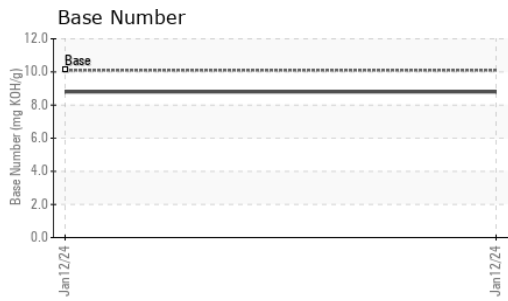
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>48</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.2</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m	316	<b>193</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	1.2	<b>51</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	24	<b>489</b>	---	---
Calcium	ppm	ASTM D5185m	2292	<b>1551</b>	---	---
Phosphorus	ppm	ASTM D5185m	1064	<b>1023</b>	---	---
Zinc	ppm	ASTM D5185m	1160	<b>1210</b>	---	---
Sulfur	ppm	ASTM D5185m	4996	<b>3387</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>8.8</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	<b>12.9</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0724780 **Recieved** : 16 Jan 2024  
**Lab Number** : 06061804 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833186 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**TAYLOR DOZER**  
 112 COLSTON RD  
 MANY, LA  
 US 71449  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (318)508-1600

F: