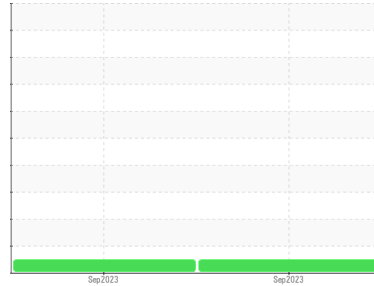




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**T3Y00201**

Component  
**Diesel Engine**

Fluid  
**CAT DIESEL ENGINE OIL 15W40 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0863763</b>	WC0863765	---
Sample Date	Client Info			<b>24 Sep 2023</b>	21 Sep 2023	---
Machine Age	hrs	Client Info		<b>160</b>	110	---
Oil Age	hrs	Client Info		<b>60</b>	0	---
Oil Changed	Client Info			<b>Not Chngd</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>2</b>	2	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>3</b>	3	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>62</b>	63	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>34</b>	33	---
Manganese	ppm	ASTM D5185m		<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>413</b>	409	---
Calcium	ppm	ASTM D5185m		<b>1247</b>	1172	---
Phosphorus	ppm	ASTM D5185m		<b>751</b>	739	---
Zinc	ppm	ASTM D5185m	1460	<b>864</b>	831	---
Sulfur	ppm	ASTM D5185m		<b>2400</b>	2305	---

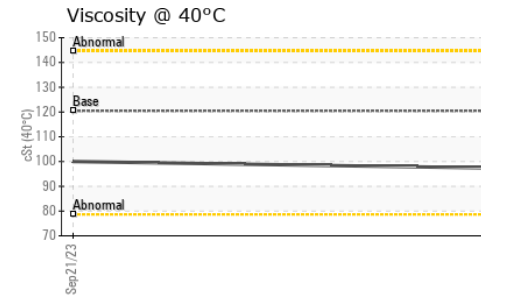
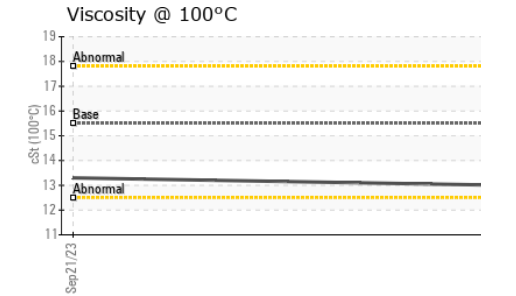
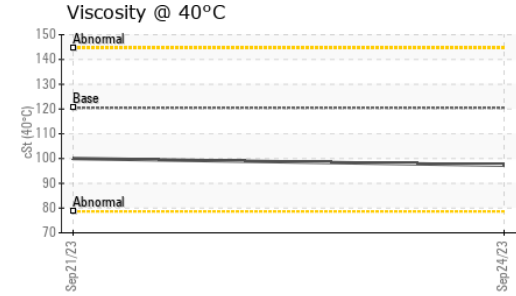
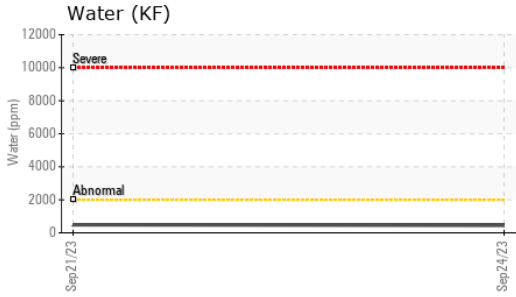
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	7	---
Sodium	ppm	ASTM D5185m		<b>5</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Water	%	ASTM D6304	>0.2	<b>0.045</b>	0.048	---
ppm Water	ppm	ASTM D6304	>2000	<b>450.0</b>	482.3	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.6</b>	4.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.7</b>	20.7	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.1</b>	18.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.3	<b>10.2</b>	10.4	---



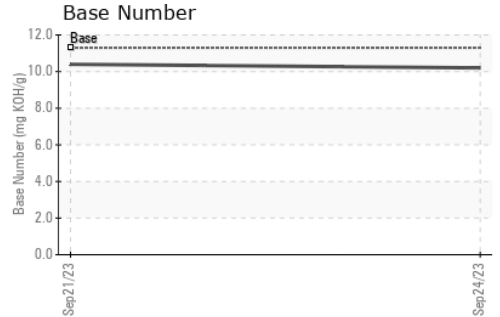
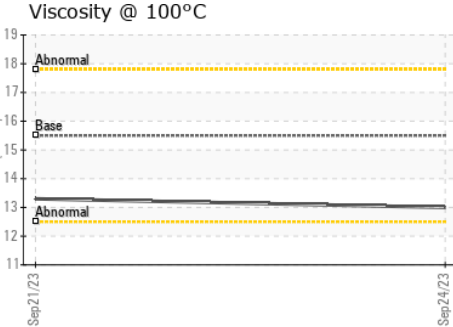
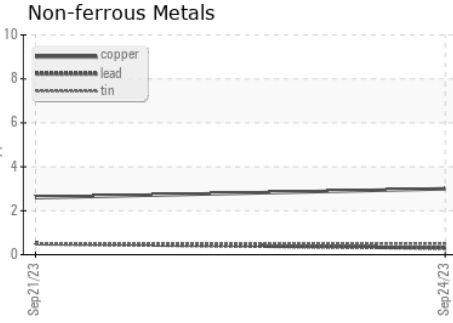
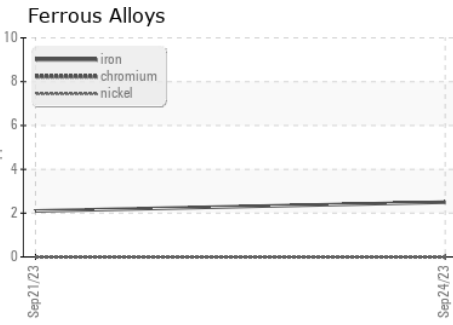
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
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 @ 40°C	cSt	ASTM D445	120.5	97.3	100
Visc @ 100°C	cSt	ASTM D445	15.5	13.0	13.3
Viscosity Index (VI)	Scale	ASTM D2270	135	130	131

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0863763 **Received** : 02 Oct 2023  
**Lab Number** : 05966158 **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10672709 **Diagnostician** : Doug Bogart  
**Test Package** : CONST ( Additional Tests: KF, KV40, TBN, VI )

**CARTER MACHINERY COMPANY INC**  
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 SALEM, VA  
 US 24153  
 Contact: Gary Wheeler  
 gary\_wheeler@cartermachinery.com  
 T: (540)387-1111  
 F: (540)387-1814

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)