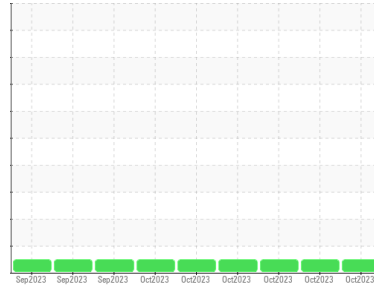




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**T3Y00201**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

The water content is negligible. 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>WC0863753</b>	WC0863769	WC0863770
Sample Date	Client Info	<b>15 Oct 2023</b>	12 Oct 2023	09 Oct 2023
Machine Age	hrs Client Info	<b>510</b>	460	410
Oil Age	hrs Client Info	<b>410</b>	360	310
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>2</b>	2	5
Chromium	ppm ASTM D5185m >20	<b>0</b>	0	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185m >40	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >330	<b>2</b>	2	2
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>53</b>	55	59
Barium	ppm ASTM D5185m	<b>&lt;1</b>	<1	0
Molybdenum	ppm ASTM D5185m	<b>38</b>	39	41
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>521</b>	537	517
Calcium	ppm ASTM D5185m	<b>1606</b>	1624	1645
Phosphorus	ppm ASTM D5185m	<b>938</b>	967	932
Zinc	ppm ASTM D5185m	<b>1124</b>	1146	1133
Sulfur	ppm ASTM D5185m	<b>2901</b>	2969	2946

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>4</b>	4	4
Sodium	ppm ASTM D5185m	<b>1</b>	1	2
Potassium	ppm ASTM D5185m >20	<b>0</b>	0	<1
Water	% ASTM D6304 >0.2	<b>0.034</b>	0.036	0.051
ppm Water	ppm ASTM D6304 >2000	<b>349.5</b>	365.2	510.0

## INFRA-RED

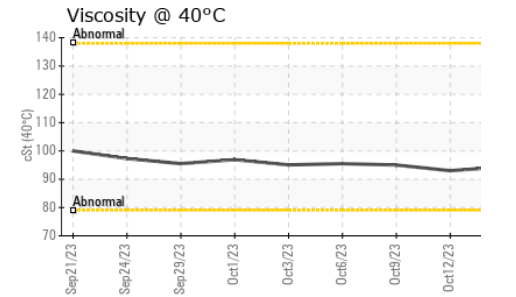
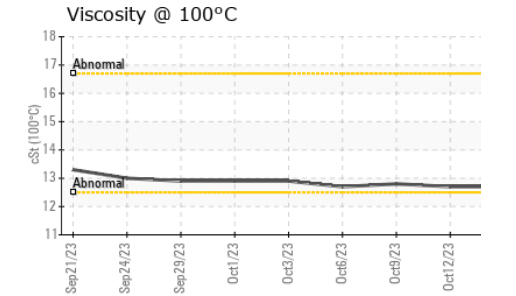
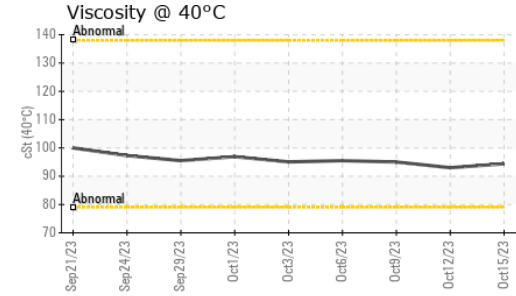
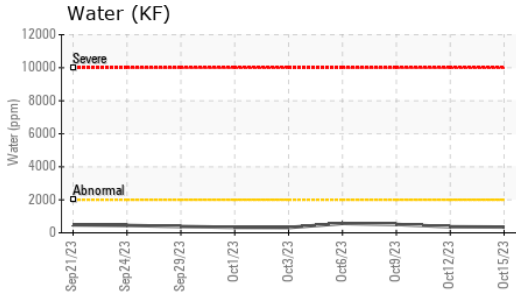
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>6.0</b>	5.8	5.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.5</b>	21.3	21.2

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>19.4</b>	19.2	19.1
Base Number (BN)	mg KOH/g ASTM D2896	<b>9.4</b>	9.6	9.7



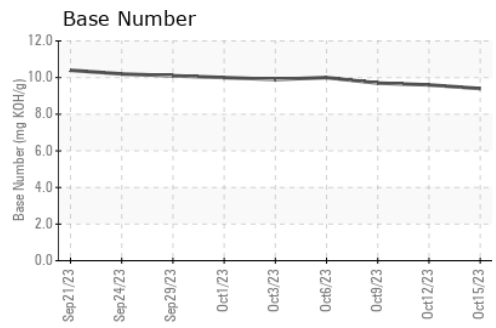
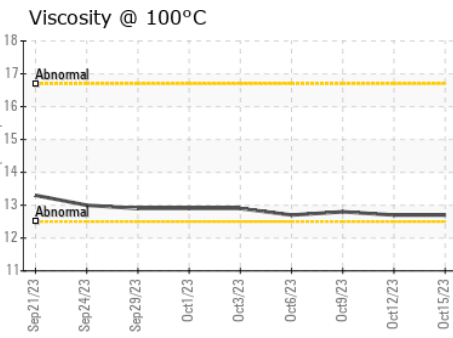
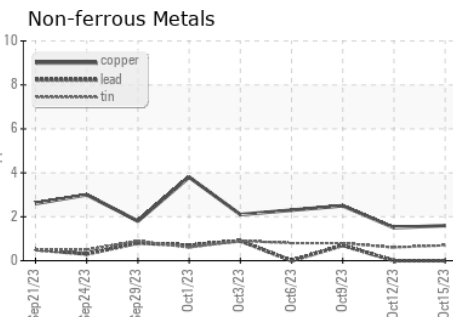
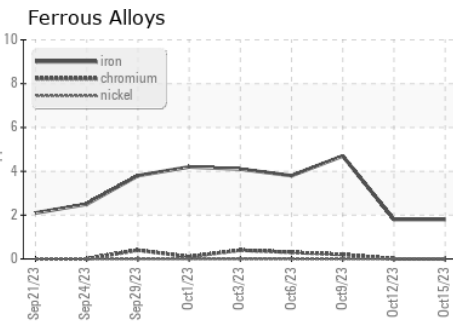
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>94.38</b>	93.01	95.01
Visc @ 100°C	cSt	ASTM D445	<b>12.7</b>	12.7	12.8
Viscosity Index (VI)	Scale	ASTM D2270	<b>130</b>	132	131

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0863753 **Received** : 18 Oct 2023  
**Lab Number** : **05982232** **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10699527 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: KF, KV40, TBN, VI )

**CARTER MACHINERY COMPANY INC**  
 1330 LYNCHBURG TURNPIKE  
 SALEM, VA  
 US 24153  
 Contact: TREVOR KIRSTE  
 trevor\_kirste@cartermachinery.com

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: (540)387-1814