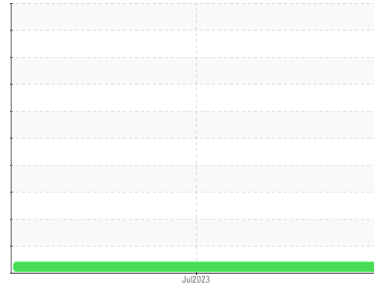




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area  
**DAVE BELL**  
 Machine Id  
**KENWORTH 611A**

Component  
**Diesel Engine**  
 Fluid  
**SHELL ROTELLA T5 10W30 (CJ4) (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC05929178</b>	---	---
Sample Date	Client Info		<b>29 Jul 2023</b>	---	---
Machine Age	hrs	Client Info	<b>17740</b>	---	---
Oil Age	hrs	Client Info	<b>670</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >165	<b>30</b>	---	---
Chromium	ppm	ASTM D5185m >5	<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 >20	<b>5</b>	---	---
Lead	ppm	ASTM D5185m >150	<b>5</b>	---	---
Copper	ppm	ASTM D5185m >90	<b>2</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>23</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>68</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>30</b>	---	---
Calcium	ppm	ASTM D5185m	<b>2191</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>1024</b>	---	---
Zinc	ppm	ASTM D5185m	<b>1238</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>4198</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>5</b>	---	---
Sodium	ppm	ASTM D5185m	<b>13</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>10</b>	---	---

## INFRA-RED

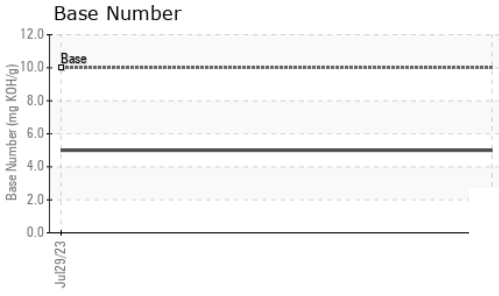
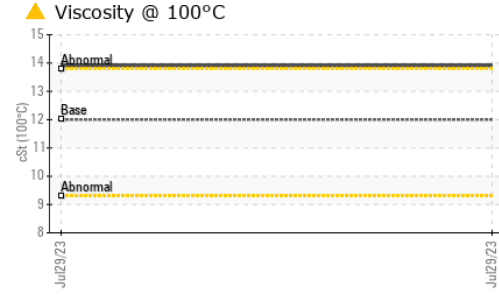
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >7.5	<b>0.5</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.8</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.6</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.0	<b>5.0</b>	---	---



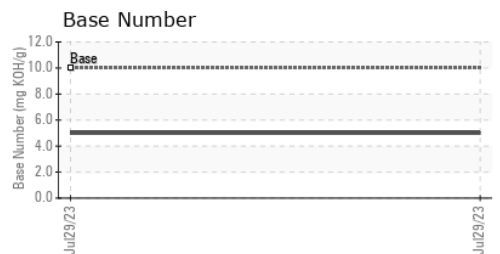
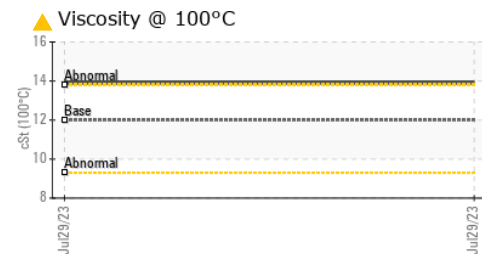
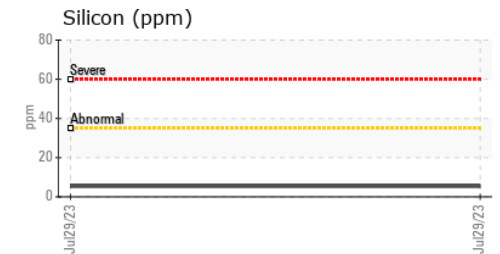
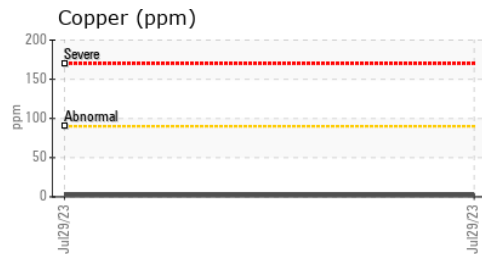
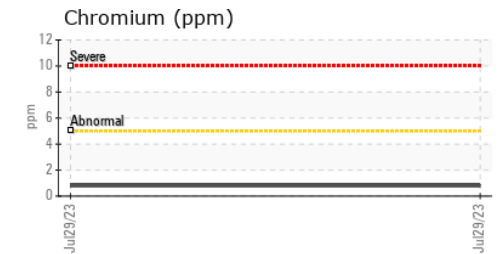
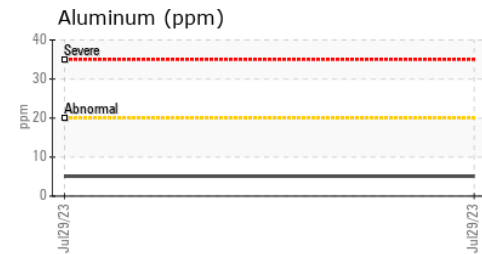
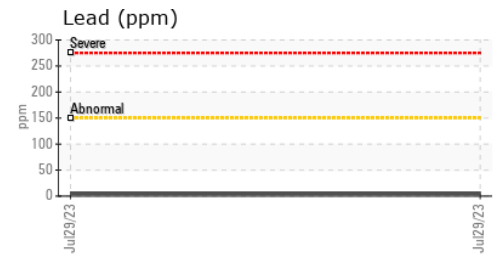
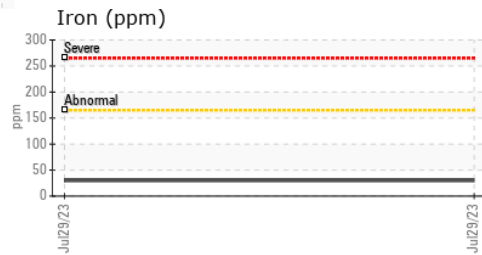
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 13.9	---	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC05929178 **Received** : 21 Aug 2023  
**Lab Number** : 05929178 **Diagnosed** : 22 Aug 2023  
**Unique Number** : 10609125 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**DAVID BELL**  
 22378 BELL RD  
 DEER CREEK, IL  
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 dbisbest@hotmail.com  
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 F:

Certificate L2367  
 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)