



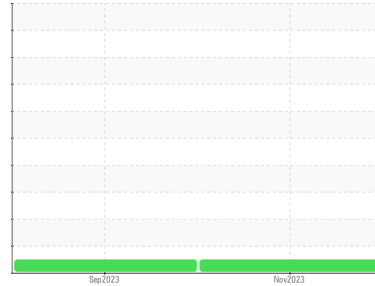
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Bridgewater**  
 Machine Id  
**CATERPILLAR 5642**  
 Component  
**Front Differential**  
 Fluid  
**TDTO FLUID SAE 30 (--- QTS)**



## 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0864882</b>	WC0850648	---
Sample Date	Client Info		<b>09 Nov 2023</b>	14 Sep 2023	---
Machine Age	hrs	Client Info	<b>1578</b>	1072	---
Oil Age	hrs	Client Info	<b>1578</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>88</b>	78	---
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>103	<b>33</b>	33	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	37	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	7	<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>2</b>	1	---
Magnesium	ppm	ASTM D5185m	40	<b>12</b>	7	---
Calcium	ppm	ASTM D5185m	2650	<b>3001</b>	2925	---
Phosphorus	ppm	ASTM D5185m	1050	<b>1031</b>	1052	---
Zinc	ppm	ASTM D5185m	1075	<b>1266</b>	1214	---
Sulfur	ppm	ASTM D5185m	5750	<b>6362</b>	7446	---

## CONTAMINANTS

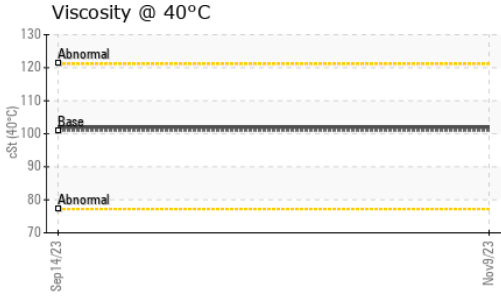
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>100	<b>6</b>	5	---
Sodium	ppm	ASTM D5185m		<b>5</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	---

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---



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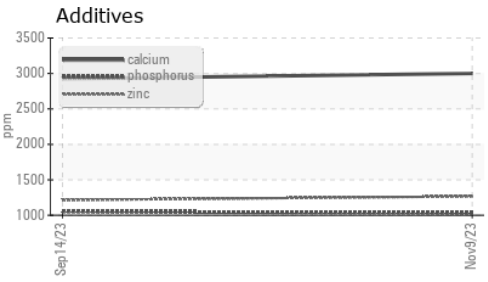
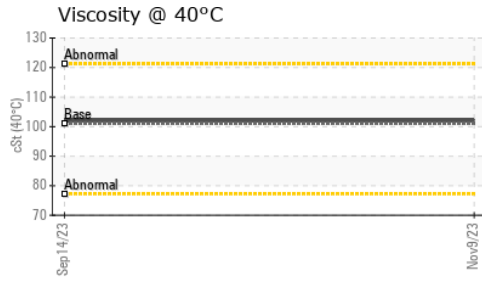
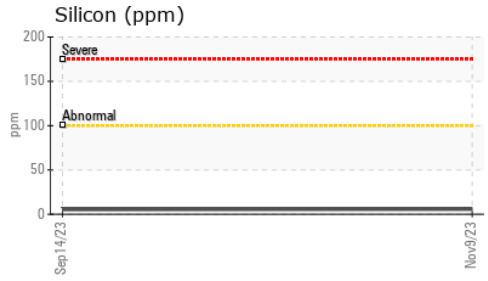
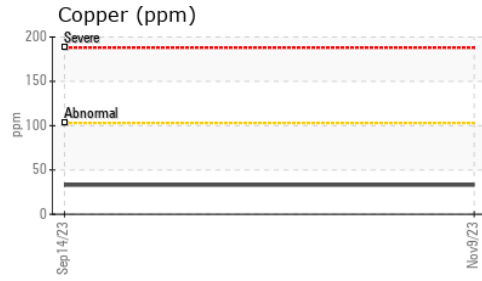
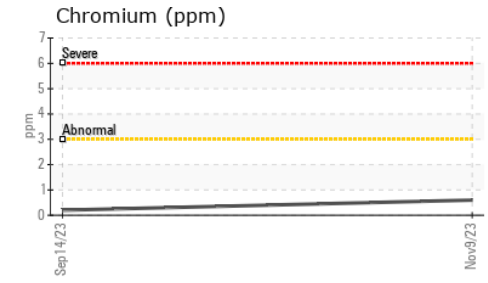
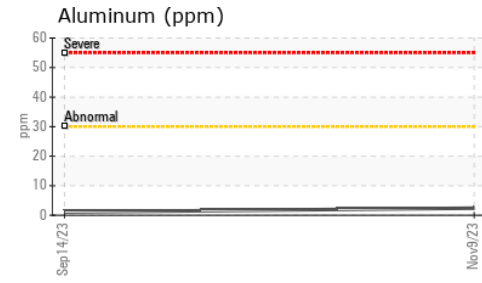
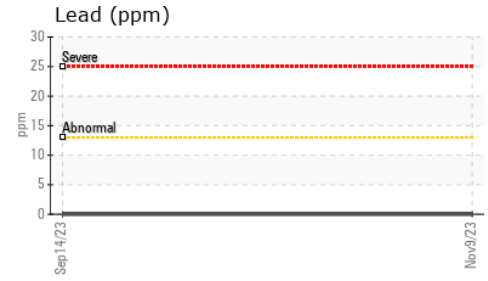
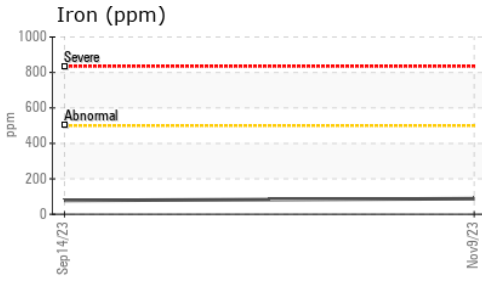


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	101	<b>102</b>	102	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0864882      **Received** : 22 Nov 2023  
**Lab Number** : 06015931      **Diagnosed** : 26 Nov 2023  
**Unique Number** : 10755075      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**INTERSTATE WASTE-BRIDGewater**  
 15 POLHEMUS LANE  
 BRIDGEWATER, NJ  
 US 08807  
 Contact: PABLO CHARDON  
 PChardon@interstatewaste.com  
 T: (609)366-7431  
 F:

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)