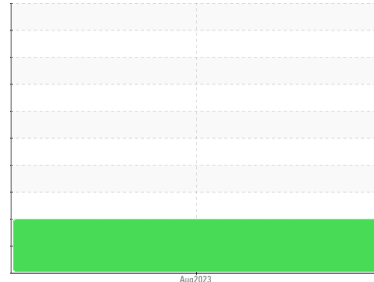




# PROBLEM SUMMARY

Sample Rating Trend

ISO



Area  
**[TE-7073]**  
 Machine Id  
**WABTEC TT18130 (S/N 102301)**  
 Component  
**Hydraulic System**  
 Fluid  
**CASTROL BRAYCO MICRONIC 882 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	---	---
Particles >4µm	ASTM D7647	>2500	▲ <b>3262</b>	---	---
Particles >6µm	ASTM D7647	>640	▲ <b>976</b>	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>111</b>	---	---
Particles >21µm	ASTM D7647	>20	▲ <b>33</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ <b>19/17/14</b>	---	---

Customer Id: WABDUN  
 Sample No.: WC0825527  
 Lab Number: 05927958  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Wes Davis +1 905-569-8600 x223  
[wesd@wearcheck.ca](mailto:wesd@wearcheck.ca)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

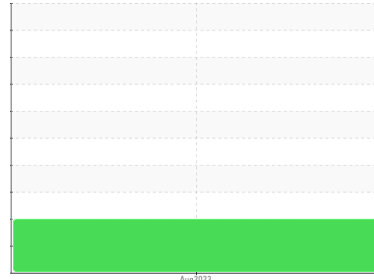
## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**[TE-7073]**  
 Machine Id  
**WABTEC TT18130 (S/N 102301)**  
 Component  
**Hydraulic System**  
 Fluid  
**CASTROL BRAYCO MICRONIC 882 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0825527</b>	---	---
Sample Date	Client Info	<b>16 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<b>0</b>	---	---
Chromium ppm ASTM D5185m	>20	<b>0</b>	---	---
Nickel ppm ASTM D5185m	>20	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>20	<b>0</b>	---	---
Lead ppm ASTM D5185m	>20	<b>0</b>	---	---
Copper ppm ASTM D5185m	>20	<b>0</b>	---	---
Tin ppm ASTM D5185m	>20	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>0</b>	---	---
Barium ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>0</b>	---	---
Magnesium ppm ASTM D5185m		<b>2</b>	---	---
Calcium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185m		<b>656</b>	---	---
Zinc ppm ASTM D5185m		<b>0</b>	---	---
Sulfur ppm ASTM D5185m		<b>188</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>0</b>	---	---
Sodium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	---	---
Water % ASTM D6304	>0.05	<b>0.024</b>	---	---
ppm Water ppm ASTM D6304	>500	<b>240.0</b>	---	---

## FLUID CLEANLINESS

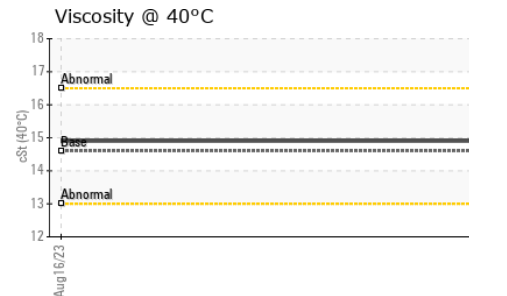
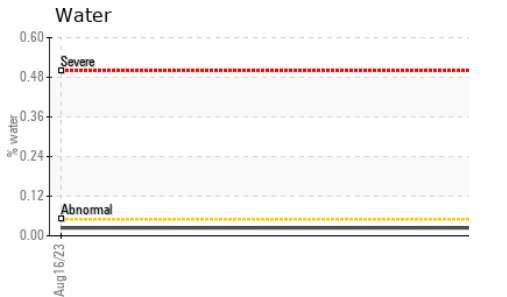
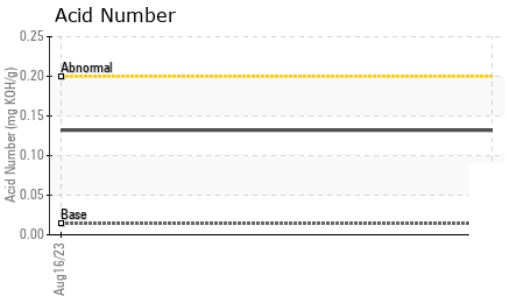
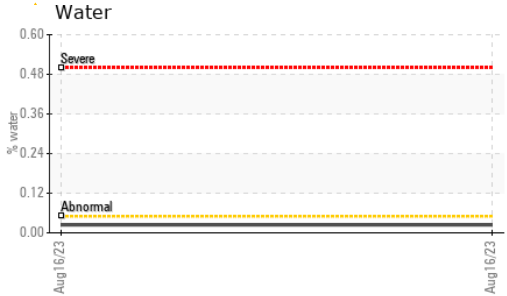
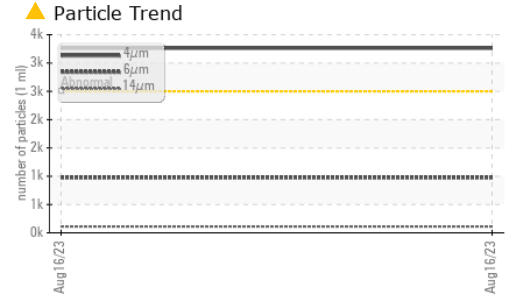
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>2500	<b>▲ 3262</b>	---	---
Particles >6µm ASTM D7647	>640	<b>▲ 976</b>	---	---
Particles >14µm ASTM D7647	>80	<b>▲ 111</b>	---	---
Particles >21µm ASTM D7647	>20	<b>▲ 33</b>	---	---
Particles >38µm ASTM D7647	>4	<b>2</b>	---	---
Particles >71µm ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>18/16/13	<b>▲ 19/17/14</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.014	<b>0.132</b>	---	---



# OIL ANALYSIS REPORT



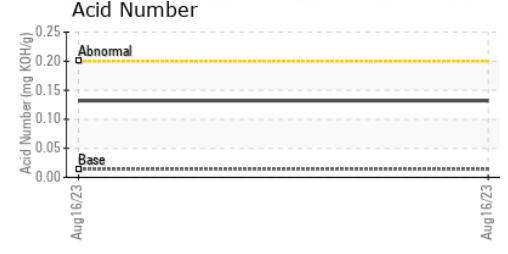
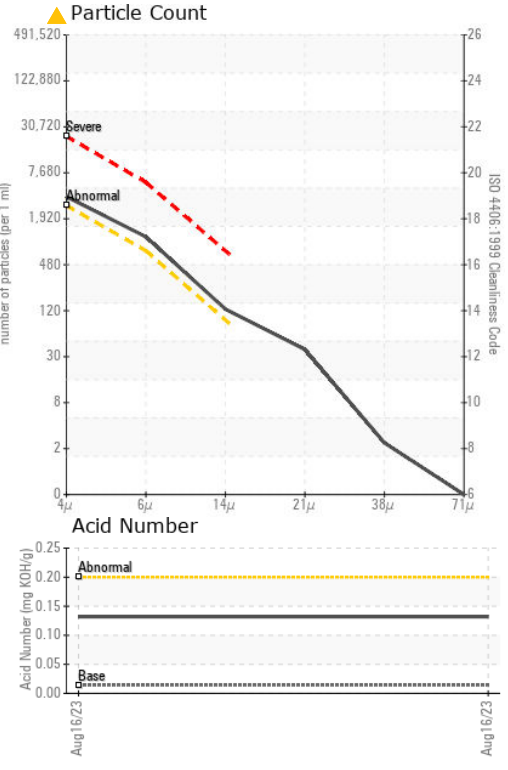
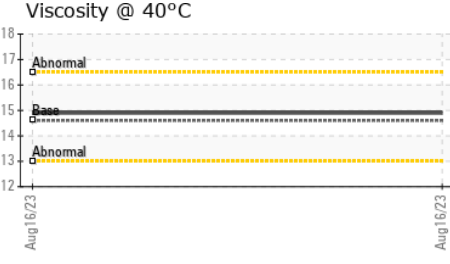
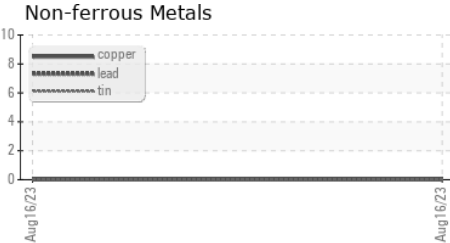
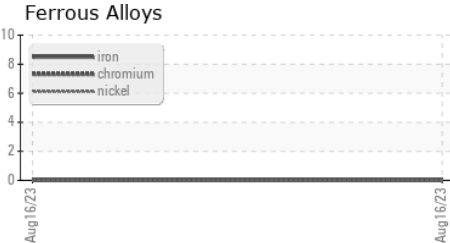
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	14.6	14.9	---

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

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0825527 **Received** : 17 Aug 2023  
**Lab Number** : 05927958 **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10607905 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**WABTEC**  
 130 RIDGEVIEW CIR  
 DUNCAN, SC  
 US 29334  
 Contact: E ORISTAGLIO  
 eoristaglio@wabtec.com  
 T: (864)541-6979  
 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)