

PROBLEM SUMMARY

[TE-7073] Machine Id WABTEC TT18130 (S/N 162302)

Component Hydraulic System

CASTROL BRAYCO MICRONIC 882 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	
Particles >4µm	ASTM D7647	>2500	<u> </u>	
Particles >6µm	ASTM D7647	>640	🔺 2478	
Particles >14µm	ASTM D7647	>80	<u> </u>	
Particles >21µm	ASTM D7647	>20	<mark>/</mark> 69	
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<u> </u>	

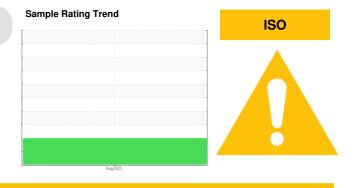
Customer Id: WABDUN Sample No.: WC0825524 Lab Number: 05927962 Test Package: IND 2



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

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



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Area [TE-7073] Machine Id WABTEC TT18130 (S/N 162302) Component

Hydraulic System

CASTROL BRAYCO MICRONIC 882 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. 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 moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

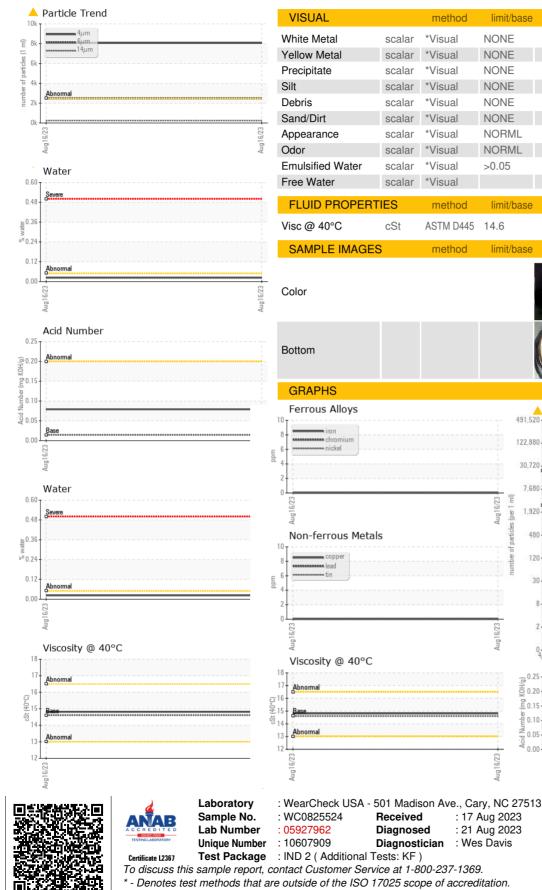
Sample NumberClient InfoWC0825524Sample DateClient Info16 Aug 2023Machine AgehrsClient Info0Oil AgehrsClient Info0Oil ChangedClient InfoN/ASample StatusLLABNORMAL	story1 history2 story1 history2
Sample NumberClient InfoWC0825524Sample DateClient Info16 Aug 2023Machine AgehrsClient Info0Oil AgehrsClient Info0Oil ChangedClient InfoN/ASample StatusABNORMALWEAR METALSmethodlimit/basecurrenthisIronppmASTM D5185m>200NickelppmASTM D5185m>200NickelppmASTM D5185m>200SilverppmASTM D5185m>200SilverppmASTM D5185m>200AuminumppmASTM D5185m>200SilverppmASTM D5185m>200AuminumppmASTM D5185m>200SilverppmASTM D5185m0AuminumppmASTM D5185m>200	story1 history2
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Sample DateClient Info16 Aug 2023Machine AgehrsClient Info0Oil AgehrsClient Info0Oil ChangedClient InfoN/ASample StatusClient InfoN/AWEAR METALSmethodlimit/basecurrentWEAR METALSmethodlimit/basecurrentIronppmASTM D5185m>200ChromiumppmASTM D5185m>200NickelppmASTM D5185m>200SilverppmASTM D5185m>200SilverppmASTM D5185m>200AuminumppmASTM D5185m>200	story1 history2
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Nickel ppm ASTM D5185m >20 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0	
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Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 0	
Aluminum ppm ASTM D5185m >20 0	
Copper ppm ASTM D5185m >20 0	
Tin ppm ASTM D5185m >20 0	
Vanadium ppm ASTM D5185m 0	
Cadmium ppm ASTM D5185m 0	
-	story1 history2
Boron ppm ASTM D5185m 0	
Barium ppm ASTM D5185m 0	
Molybdenum ppm ASTM D5185m 0	
Manganese ppm ASTM D5185m 0	
Magnesium ppm ASTM D5185m 2	
Calcium ppm ASTM D5185m <1	
Phosphorus ppm ASTM D5185m 604	
Zinc ppm ASTM D5185m 0	
Sulfur ppm ASTM D5185m 200	
CONTAMINANTS method limit/base current his	story1 history2
Silicon ppm ASTM D5185m >15 0	
Sodium ppm ASTM D5185m <1	
Potassium ppm ASTM D5185m >20 0	
Water % ASTM D6304 >0.05 0.023	
ppm Water ppm ASTM D6304 >500 237.6	
FLUID CLEANLINESS method limit/base current his	story1 history2
Particles >4μm ASTM D7647 >2500 ▲ 8068	
Particles >4μm ASIM D/647 >2500 A 8068 Particles >6μm ASIM D/647 >640 A 2478	
Particles >6μm ASTM D7647 >640 4 2478	
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Particles >6μm ASTM D7647 >640 2478 Particles >14μm ASTM D7647 >80 243 Particles >21μm ASTM D7647 >20 69	
Particles >6μm ASTM D7647 >640 2478 Particles >14μm ASTM D7647 >80 243 Particles >14μm ASTM D7647 >20 69 Particles >21μm ASTM D7647 >20 69 Particles >38μm ASTM D7647 >4 3	
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Sample Rating Trend

ISO



OIL ANALYSIS REPORT



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

214

38

history1

history

history1

no image

no image

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

current

Particle Count

Acid Number

Base

Aug1

31

NEG

NEG

14.81

history2

history2

history2

no image

no imade

4406

:1999 Cle

Aug 1