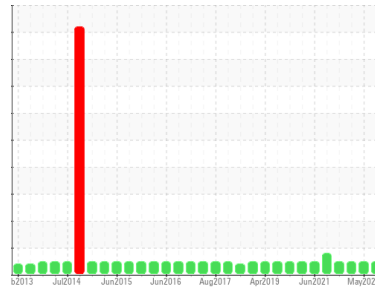




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**BRUCE A/1/43230 [08697397-001]**  
 Machine Id  
**1-43230-P4-P IB Brg Drn**  
 Component  
**Inboard Bearing**  
 Fluid  
**MOBIL DTE 732 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### 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>WC0729981</b>	WC0801463	WC
Sample Date	Client Info	<b>10 Apr 2024</b>	31 May 2023	21 Sep 2022
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >10	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

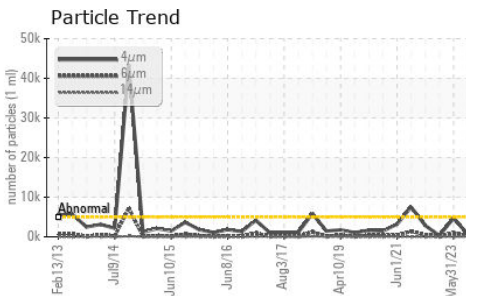
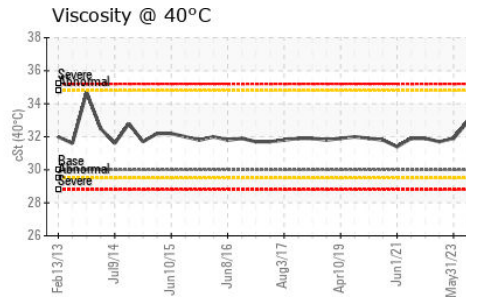
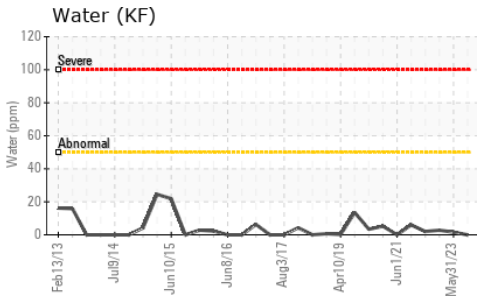
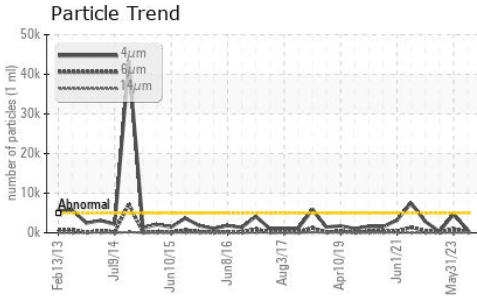
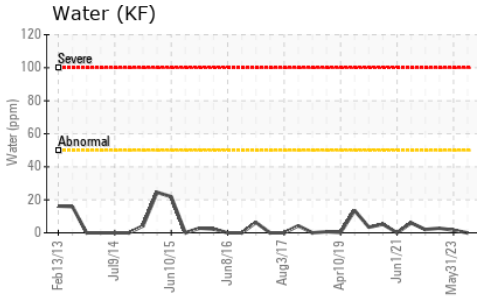
method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	<b>0</b>	1	<1
Phosphorus	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Zinc	ppm	ASTM D5185(m)	<b>2</b>	2	1
Sulfur	ppm	ASTM D5185(m)	<b>1454</b>	1840	1875
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >5	<b>2</b>	<1	<1
Sodium	ppm	ASTM D5185(m) >5	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304* >0.005	<b>0.00</b>	0.001	0.001
ppm Water	ppm	ASTM D6304* >50	<b>0</b>	1.6	2.8

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>724</b>	4634	344
Particles >6µm	ASTM D7647 >1300	<b>245</b>	939	67
Particles >14µm	ASTM D7647 >320	<b>27</b>	67	5
Particles >21µm	ASTM D7647 >80	<b>7</b>	17	1
Particles >38µm	ASTM D7647 >20	<b>1</b>	1	0
Particles >71µm	ASTM D7647 >4	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/15	<b>17/15/12</b>	19/17/13	16/13/10



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	<b>0.06</b>	0.10	0.14

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.005	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	30.0	<b>32.9</b>	31.9	31.7

SAMPLE IMAGES		method	limit/base	current	history1	history2
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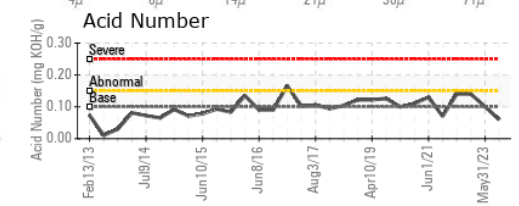
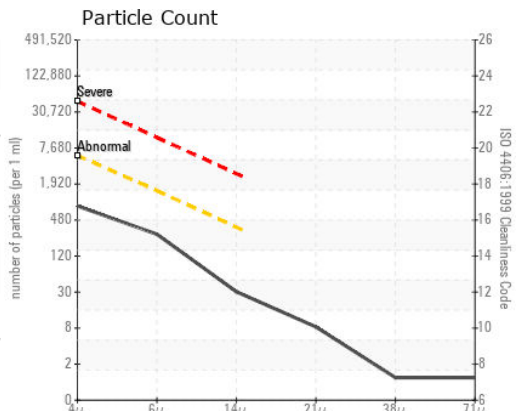
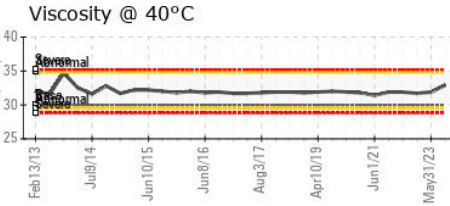
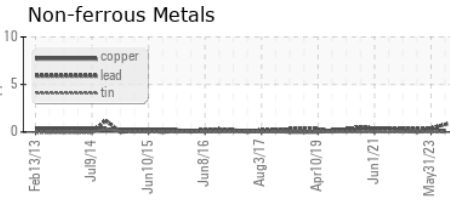
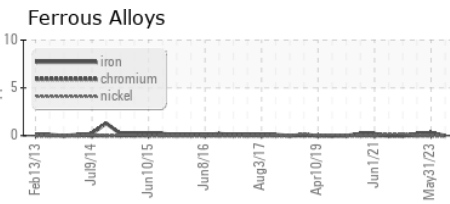
Color



Bottom



## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0729981  
**Lab Number** : **02629219**  
**Unique Number** : 5762351  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Bruce Power - Bruce A Pdm**  
P.O.Box 1540, 177 Tie Road., RM-222 U2 Column 2N11 615'  
Tiverton, ON  
CA N0G 2T0

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

Contact: Andrew Roffey

andrew.roffey@brucepower.com

T: (519)361-2673 x:17186

F: