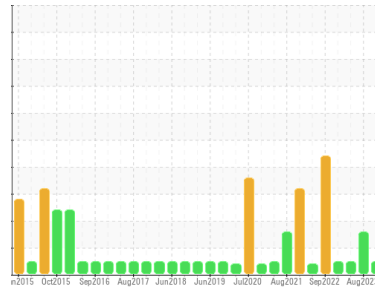




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**BRUCE B/0B/54600**  
 Machine Id  
**0B-54600-SG6-Avon Aux**  
 Component  
**Tank Jet Turbine**  
 Fluid  
**SHELL AEROSHELL 500 (--- 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>WC0628149</b>	WC0642787	WC0548205
Sample Date	Client Info		<b>05 Dec 2023</b>	02 Aug 2023	04 May 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Chromium	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >1	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >1	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185(m) >1	<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) 0	<b>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185(m) 1000	<b>991</b>	1072	1046
Zinc	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	1	<1
Sulfur	ppm	ASTM D5185(m) 0	<b>61</b>	2	1
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>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0
Water	%	ASTM D6304* >0.05	<b>0.032</b>	▲ 0.111	0.033
ppm Water	ppm	ASTM D6304* >500	<b>325</b>	▲ 1110.1	331.2

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>692</b>	1097	3987
Particles >6µm	ASTM D7647	>1300	<b>104</b>	151	891
Particles >14µm	ASTM D7647	>320	<b>7</b>	15	84
Particles >21µm	ASTM D7647	>80	<b>4</b>	6	28
Particles >38µm	ASTM D7647	>20	<b>2</b>	1	6
Particles >71µm	ASTM D7647	>4	<b>2</b>	0	4
Oil Cleanliness	ISO 4406 (c)	>19/17/15	<b>17/14/10</b>	17/14/11	19/17/14

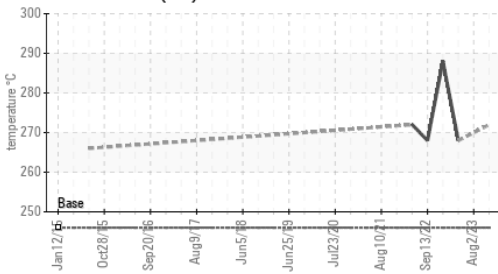
Particle Filter (Magn: 200 x)



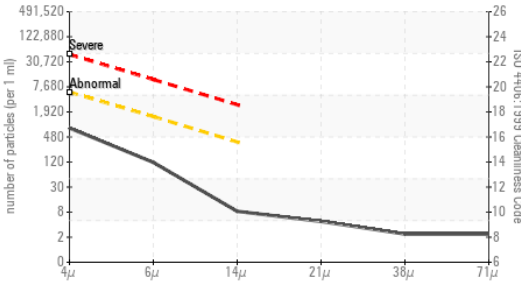


# OIL ANALYSIS REPORT

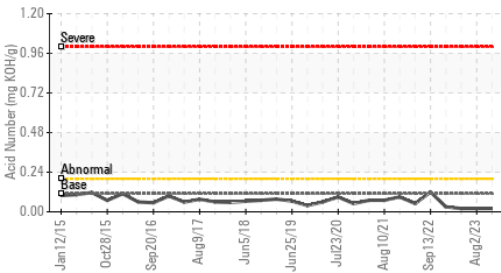
Flash Point (°C)



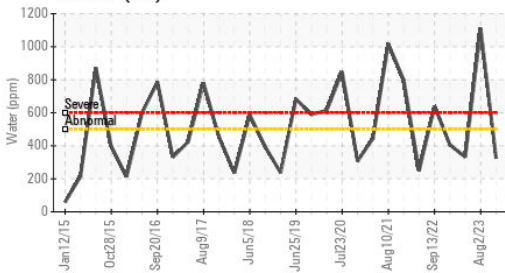
Particle Count



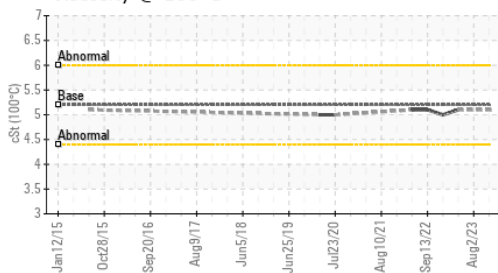
Acid Number



Water (KF)



Viscosity @ 100°C

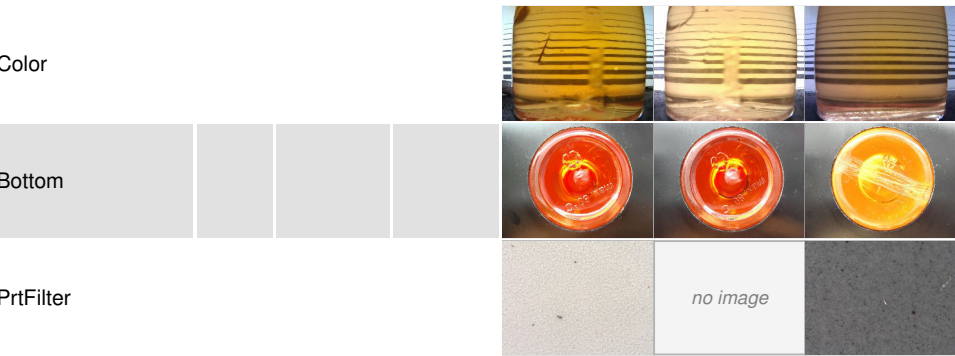


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.11	<b>0.02</b>	0.02	0.02

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>	VLITE	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*	>0.05	<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)	25.3	<b>25.6</b>	25.3	25.6
Visc @ 100°C	cSt	ASTM D7279(m)	5.2	<b>5.1</b>	---	5.1
Viscosity Index (VI)	Scale	ASTM D2270*	141	<b>130</b>	---	130
COC Flash Point	°C	ASTM D92*	246	<b>272</b>	---	268

SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0628149  
**Lab Number** : **02602623**  
**Unique Number** : 5695708  
**Test Package** : IND2+ ( Additional Tests: BottomAnalysis, PrtFilter, Spat, VI, Visual )

**Bruce Power - Bruce A PdM**  
 P.O.Box 1540, 177 Tie Road., RM-222 U2 Column 2N11 615'  
 Tiverton, ON  
 CA N0G 2T0  
 Contact: Pierre Adouki  
 pierre.adouki@brucepower.com

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.

T: (519)361-2673  
 F: