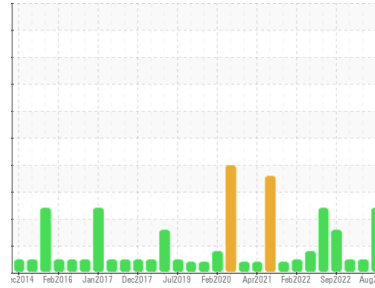




PROBLEM SUMMARY

Sample Rating Trend



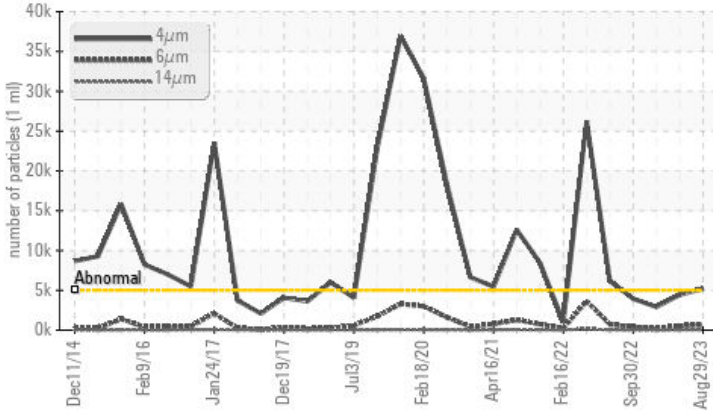
WATER



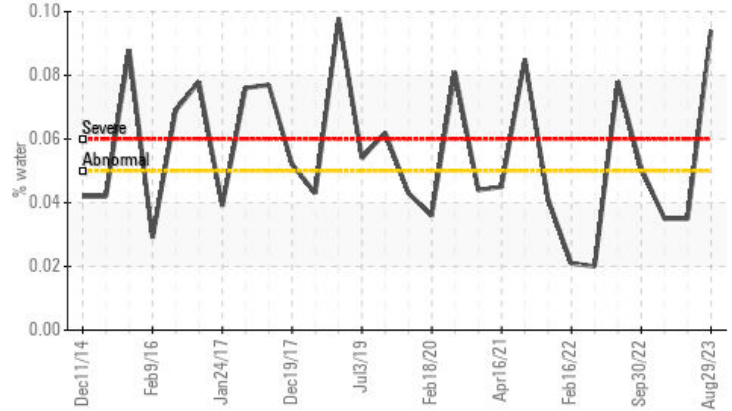
Area
BRUCE B/0B/54600
Machine Id
0B-54600-SG7-Avon Aux
Component
Tank Jet Turbine
Fluid
SHELL AEROSHELL 500 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water



RECOMMENDATION

The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	NORMAL
Water	%	ASTM D6304*	>0.05	▲ 0.094	0.035	0.035
ppm Water	ppm	ASTM D6304*	>500	▲ 944.5	352.7	356.5
Particles >4µm		ASTM D7647	>5000	▲ 5206	4438	2915
Oil Cleanliness		ISO 4406 (c)	>19/17/15	▲ 20/17/12	19/16/12	19/15/10
PrtFilter						

Customer Id: BRUTIV
Sample No.: WC0535186
Lab Number: 02580357
Test Package: IND2+



To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.

HISTORICAL DIAGNOSIS

05 May 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



05 Jan 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



30 Sep 2022 Diag: Kevin Marson

WATER



The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





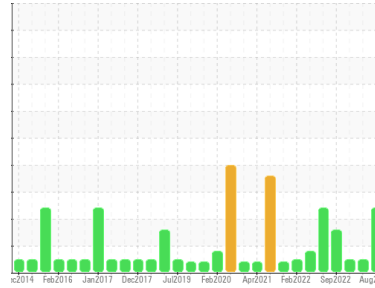
OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
BRUCE B/0B/54600
 Machine Id
0B-54600-SG7-Avon Aux
 Component
Tank Jet Turbine
 Fluid
SHELL AEROSHELL 500 (--- GAL)



DIAGNOSIS

Recommendation

The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture 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		WC0535186	WC0548194	WC0535169
Sample Date	Client Info		29 Aug 2023	05 May 2023	05 Jan 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ATTENTION	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >2	1	<1	<1
Chromium	ppm	ASTM D5185(m) >1	0	0	0
Nickel	ppm	ASTM D5185(m) >1	<1	0	<1
Titanium	ppm	ASTM D5185(m) >5	0	0	0
Silver	ppm	ASTM D5185(m) >2	0	0	0
Aluminum	ppm	ASTM D5185(m) >1	0	0	0
Lead	ppm	ASTM D5185(m) >2	0	0	<1
Copper	ppm	ASTM D5185(m) >1	<1	<1	0
Tin	ppm	ASTM D5185(m) >1	0	0	0
Antimony	ppm	ASTM D5185(m)	0	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<1	0	<1
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 0	0	0	0
Manganese	ppm	ASTM D5185(m) 0	0	0	0
Magnesium	ppm	ASTM D5185(m) 0	0	0	<1
Calcium	ppm	ASTM D5185(m) 0	<1	0	0
Phosphorus	ppm	ASTM D5185(m) 1000	1085	1070	1085
Zinc	ppm	ASTM D5185(m) 5	1	<1	<1
Sulfur	ppm	ASTM D5185(m) 0	1	<1	0
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >5	1	1	1
Sodium	ppm	ASTM D5185(m) >5	<1	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<1	0	<1
Water	%	ASTM D6304* >0.05	▲ 0.094	0.035	0.035
ppm Water	ppm	ASTM D6304* >500	▲ 944.5	352.7	356.5

FLUID CLEANLINESS

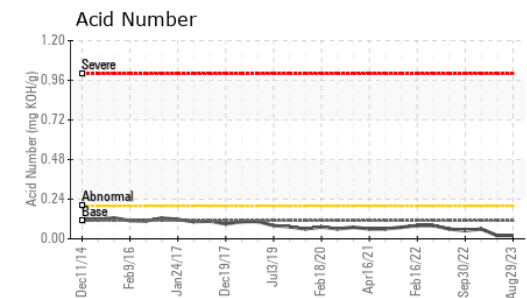
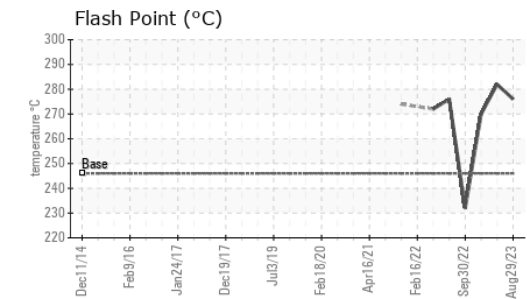
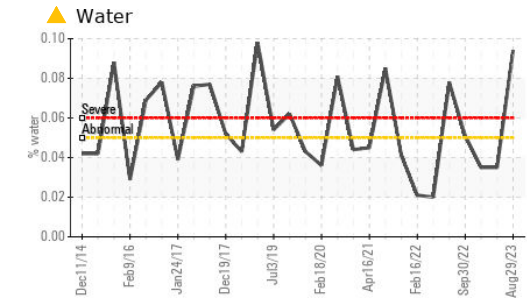
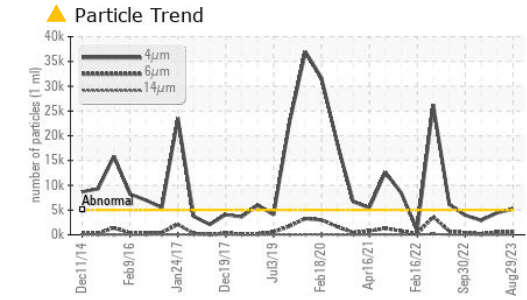
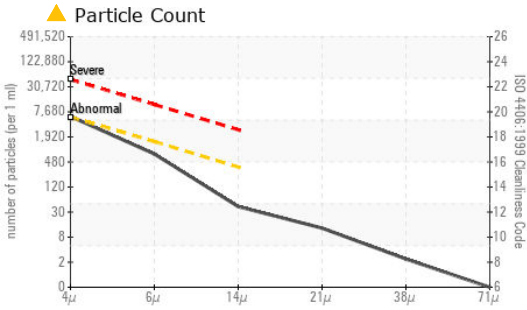
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 5206	4438	2915
Particles >6µm	ASTM D7647	>1300	656	556	201
Particles >14µm	ASTM D7647	>320	36	30	7
Particles >21µm	ASTM D7647	>80	11	7	5
Particles >38µm	ASTM D7647	>20	2	0	3
Particles >71µm	ASTM D7647	>4	0	0	2
Oil Cleanliness	ISO 4406 (c)	>19/17/15	▲ 20/17/12	19/16/12	19/15/10

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0535186
Lab Number : 02580357
Unique Number : 5633417
Test Package : IND2+ (Additional Tests: BottomAnalysis, PrtFilter, Spat, VI, Visual)

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.

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
 T: (519)361-2673
 F:

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN) mg KOH/g	ASTM D974*	0.11	0.02	0.02	0.06	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D7279(m)	25.3	25.1	25.5	25.3
Visc @ 100°C	cSt ASTM D7279(m)	5.2	5.1	5.1	5.2
Viscosity Index (VI)	Scale ASTM D2270*	141	135	131	141
COC Flash Point	°C ASTM D92*	246	276	282	270

SAMPLE IMAGES

