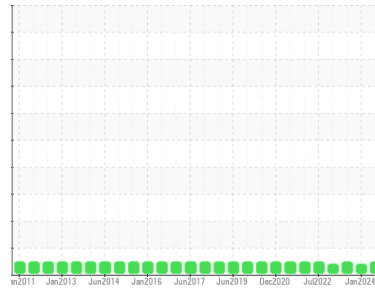




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
BRUCE B/7/71210
 Machine Id
7-71210-P2-PM Lo Brg Level
 Component
Lower Bearing
 Fluid
ESSO TERESSO ISO 68 (--- 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	WC0900652	WC0845387	WC0791673
Sample Date	Client Info	03 Jul 2024	09 Jan 2024	06 Jun 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		NORMAL	ATTENTION	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>10	0	0	0
Chromium ppm ASTM D5185(m)	>5	0	0	0
Nickel ppm ASTM D5185(m)	>5	<1	0	<1
Titanium ppm ASTM D5185(m)	>5	0	0	0
Silver ppm ASTM D5185(m)		0	0	0
Aluminum ppm ASTM D5185(m)	>5	<1	1	<1
Lead ppm ASTM D5185(m)	>5	0	2	2
Copper ppm ASTM D5185(m)	>5	0	0	0
Tin ppm ASTM D5185(m)	>5	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)	4.5	0	0	0
Barium ppm ASTM D5185(m)	0.4	0	0	0
Molybdenum ppm ASTM D5185(m)	0	0	0	0
Manganese ppm ASTM D5185(m)		0	0	0
Magnesium ppm ASTM D5185(m)	0	0	0	0
Calcium ppm ASTM D5185(m)	0	0	2	<1
Phosphorus ppm ASTM D5185(m)	0.7	<1	6	4
Zinc ppm ASTM D5185(m)	0	1	1	1
Sulfur ppm ASTM D5185(m)	1315	621	2465	2391
Lithium ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

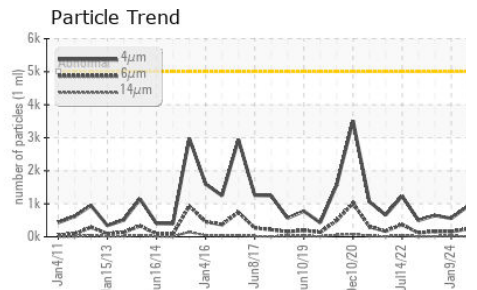
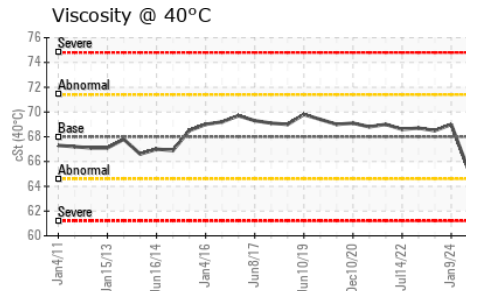
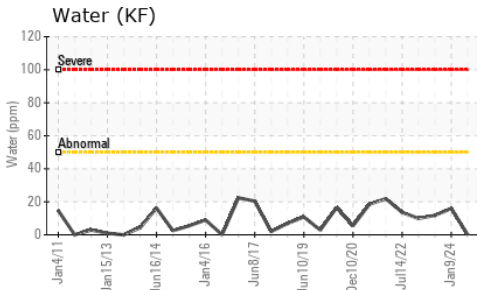
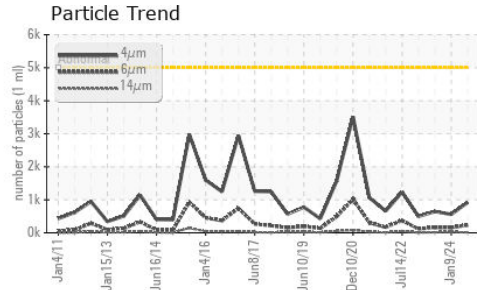
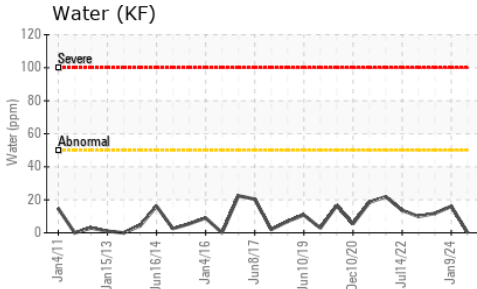
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>5	0	<1	<1
Sodium ppm ASTM D5185(m)	>5	0	0	0
Potassium ppm ASTM D5185(m)	>20	0	0	0
Water % ASTM D6304*	>0.005	0.00	0.002	0.001
ppm Water ppm ASTM D6304*	>50	0	16	11.8

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	920	560	645
Particles >6µm ASTM D7647	>1300	235	161	163
Particles >14µm ASTM D7647	>320	14	22	16
Particles >21µm ASTM D7647	>80	3	9	5
Particles >38µm ASTM D7647	>20	1	1	0
Particles >71µm ASTM D7647	>4	0	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/15	17/15/11	16/15/12	17/15/11



OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.08	0.14	0.10

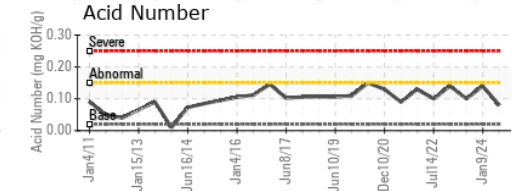
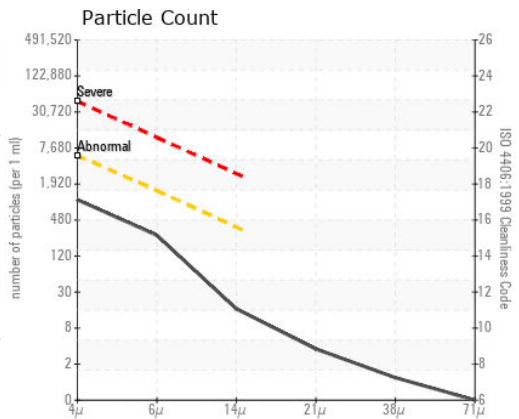
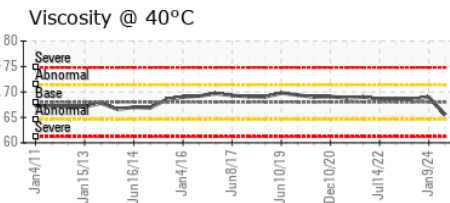
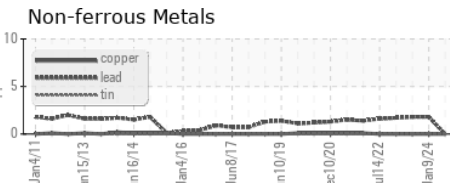
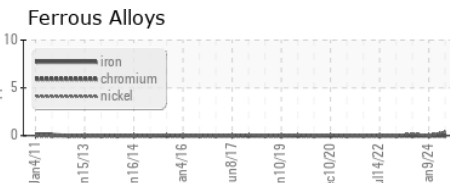
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.005	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)	68	65.5	69.0	68.5

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0900652 **Received** : 10 Jul 2024
Lab Number : **02647012** **Tested** : 15 Jul 2024
Unique Number : 5812564 **Diagnosed** : 15 Jul 2024 - Wes Davis
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
 Contact: Pierre Adouki
 pierre.adouki@brucepower.com
 T: (519)361-2673
 F:

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.