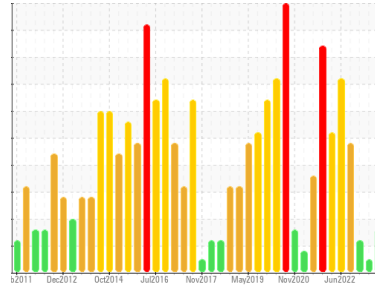




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
(ZONE3) BRUCE B/0B/34340
 Machine Id
0B-34340-MV323-ActuatorHydFluid
 Component
Hydraulic System
 Fluid
SUPRESTA FYRQUEL EHC-S (8 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. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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	WC0900709	WC0845383	WC0744559
Sample Date	Client Info	19 Jun 2024	04 Jan 2024	20 Jul 2023
Machine Age	kms Client Info	0	0	0
Oil Age	kms Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		MARGINAL	NORMAL	ATTENTION

WEAR METALS

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

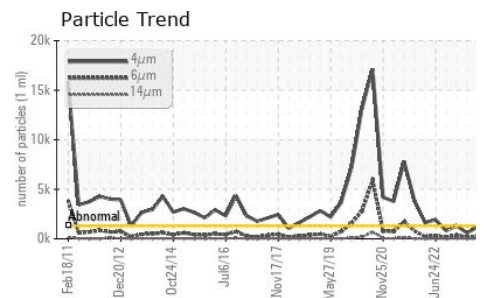
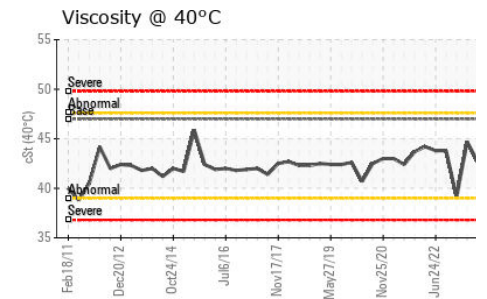
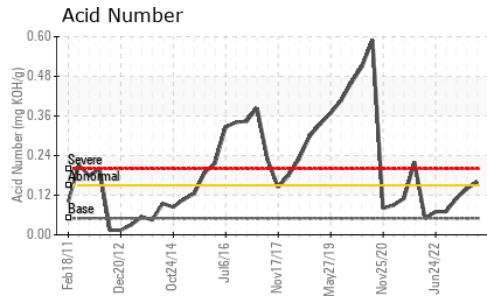
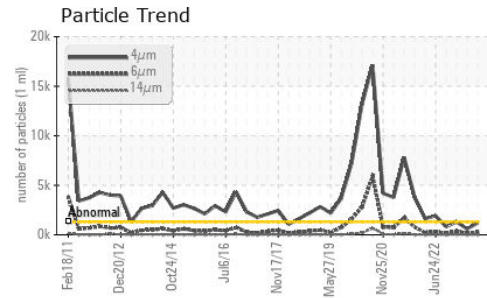
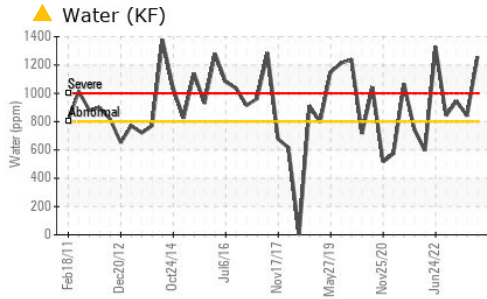
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	1	0	<1
Barium	ppm ASTM D5185(m)	0	0	0
Molybdenum	ppm ASTM D5185(m)	0	0	0
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m)	<1	1	<1
Calcium	ppm ASTM D5185(m)	2	2	2
Phosphorus	ppm ASTM D5185(m)	35327	36790	27567
Zinc	ppm ASTM D5185(m)	5	3	3
Sulfur	ppm ASTM D5185(m)	2	0	23
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >5	4	3	2
Sodium	ppm ASTM D5185(m) >5	<1	<1	<1
Potassium	ppm ASTM D5185(m) >20	0	1	<1
Water	% ASTM D6304* >0.08	▲ 0.125	0.084	0.094
ppm Water	ppm ASTM D6304* >800	▲ 1258	840	944.0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	1205	592	● 1306
Particles >6µm	ASTM D7647 >320	273	147	● 370
Particles >14µm	ASTM D7647 >40	14	13	36
Particles >21µm	ASTM D7647 >10	3	5	13
Particles >38µm	ASTM D7647 >3	1	2	2
Particles >71µm	ASTM D7647 >3	0	2	1
Oil Cleanliness	ISO 4406 (c) >17/15/12	17/15/11	16/14/11	● 18/16/12

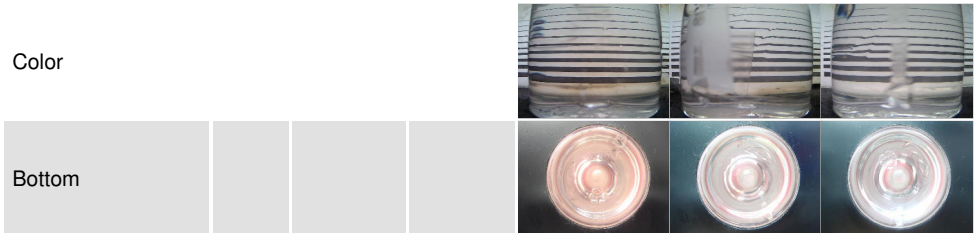


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.16	0.14	0.11

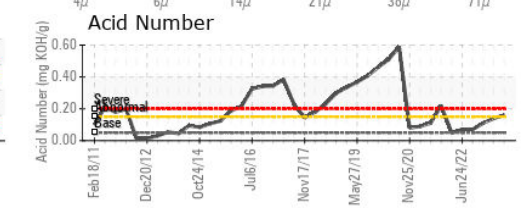
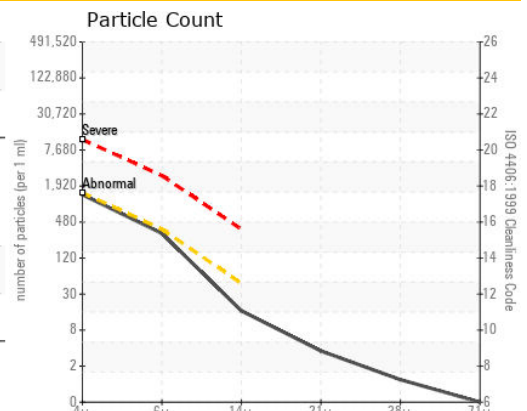
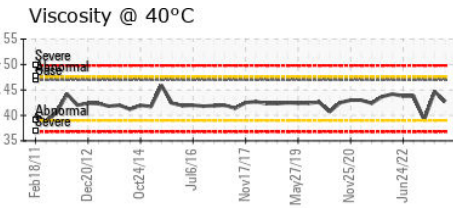
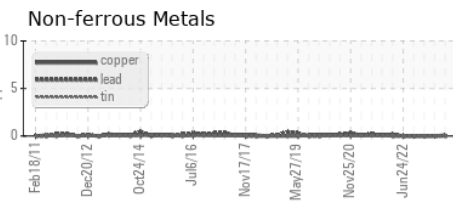
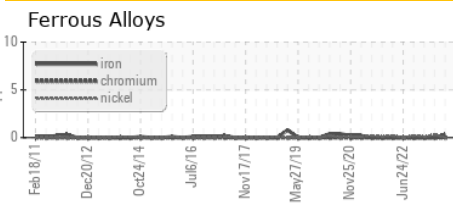
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.08	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)	47	42.7	44.7	39.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0900709
Lab Number : 02646012
Unique Number : 5811564
Test Package : IND 2 (Additional Tests: TAN Man)
Received : 05 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Kevin Marson

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.