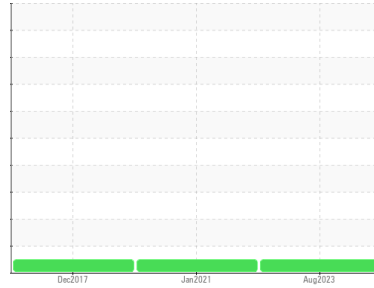




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
BRUCE B/6/75120
 Machine Id
6-75120-CP2 Ld (LP/HP-MK2)-Lube Oil Level
 Component
Bulk Fluid Tank
 Fluid
PETRO CANADA TURBOFLO XL68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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	WC0744569	WC0515465	WC22127912
Sample Date	Client Info	14 Aug 2023	12 Jan 2021	01 Dec 2017
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	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>10	0	<1	<1
Chromium ppm ASTM D5185(m)	>5	0	0	0
Nickel ppm ASTM D5185(m)	>5	0	<1	0
Titanium ppm ASTM D5185(m)	>5	0	0	0
Silver ppm ASTM D5185(m)		0	<1	0
Aluminum ppm ASTM D5185(m)	>5	0	<1	<1
Lead ppm ASTM D5185(m)	>5	0	<1	<1
Copper ppm ASTM D5185(m)	>5	<1	<1	<1
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	<1	<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)		0	0	0
Calcium ppm ASTM D5185(m)		<1	<1	<1
Phosphorus ppm ASTM D5185(m)		3	3	2
Zinc ppm ASTM D5185(m)	0	2	3	2
Sulfur ppm ASTM D5185(m)		732	2181	2086
Lithium ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

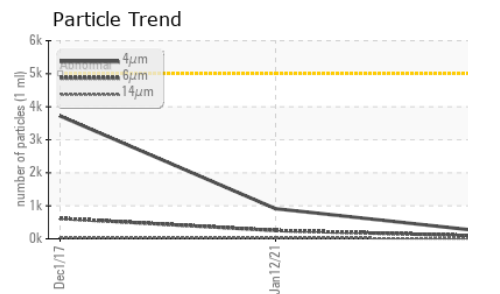
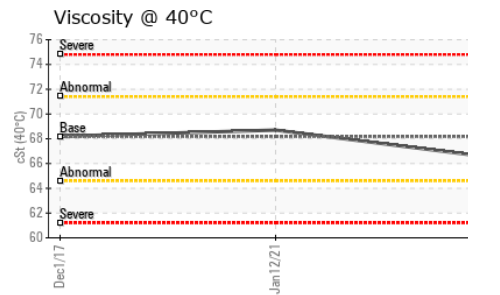
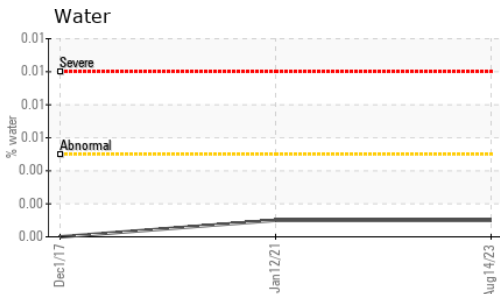
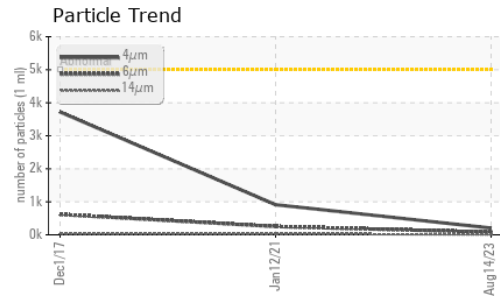
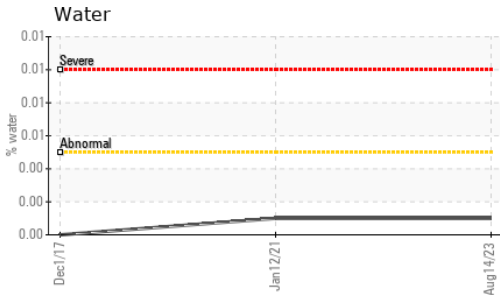
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>5	2	6	3
Sodium ppm ASTM D5185(m)	>5	0	<1	0
Potassium ppm ASTM D5185(m)	>20	<1	<1	<1
Water % ASTM D6304*	>0.005	0.001	0.001	0.00
ppm Water ppm ASTM D6304*	>50	0.4	14.1	0.00

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	205	912	3721
Particles >6µm ASTM D7647	>1300	79	252	617
Particles >14µm ASTM D7647	>320	11	23	30
Particles >21µm ASTM D7647	>80	4	7	7
Particles >38µm ASTM D7647	>20	1	0	0
Particles >71µm ASTM D7647	>4	1	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/15	15/13/11	17/15/12	19/16/12



OIL ANALYSIS REPORT



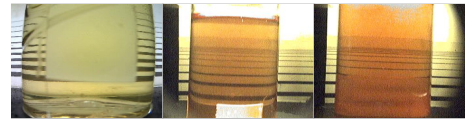
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.13	0.08	0.116

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	VLITE
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)	68.17	66.5	68.7	68.2

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

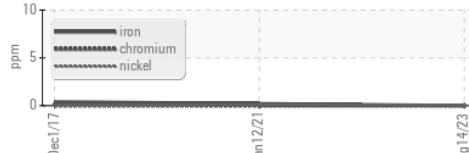


Bottom



GRAPHS

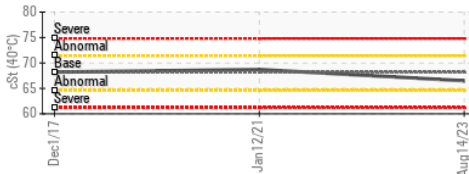
Ferrous Alloys



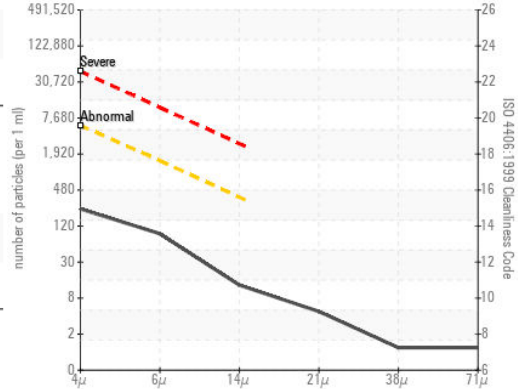
Non-ferrous Metals



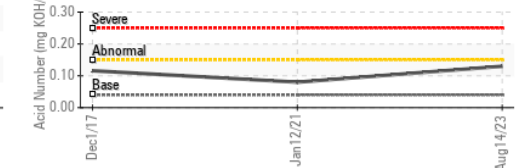
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0744569
 Lab Number : 02578776
 Unique Number : 5631836
 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.