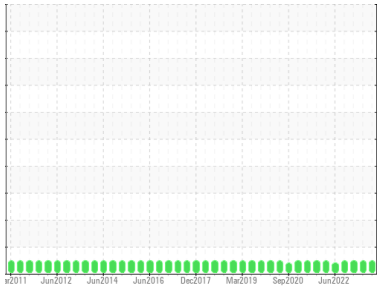
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
BRUCE B/5/33120
Machine Id
5-33120-P2-PM Up Brg
Component
Upper Bearing
Fluid
MOBIL DTE 732 (280 GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
The Direct-Reading Ferrographic data (DL, DS, %large) is normal. 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	history 1	history 2
Sample Number		Client Info		**WC0791666**	WC	WC
Sample Date		Client Info		**14 Jun 2023**	06 Mar 2023	19 Dec 2022
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	history 1	history 2
Iron	ppm	ASTM D5185(m)	>1	**0**	0	0
Chromium	ppm	ASTM D5185(m)	>1	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>1	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>1	**0**	<1	0
Lead	ppm	ASTM D5185(m)	>3	**0**	0	0
Copper	ppm	ASTM D5185(m)	>1	**<1**	0	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

DR-FERROGRAPHY		method	limit/base	current	history 1	history 2
Large Particles		DR-Ferr*		**1.7**	0.3	0.8
Small Particles		DR-Ferr*		**1.4**	0.1	1.2
Total Particles		DR-Ferr*	>---	**3.1**	0.4	2
Large Particles Percentage	%	DR-Ferr*		**9.7**	50	0
Severity Index		DR-Ferr*		**1**	0	0

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)		**0**	<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**	0	0
Phosphorus	ppm	ASTM D5185(m)		**0**	0	1
Zinc	ppm	ASTM D5185(m)		**2**	<1	<1
Sulfur	ppm	ASTM D5185(m)		**31**	34	35
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>5	**0**	0	0
Sodium	ppm	ASTM D5185(m)	>5	**0**	0	0
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	<1
Water	%	ASTM D6304*	>0.005	**0.002**	0.00	0.001
ppm Water	ppm	ASTM D6304*	>50	**18.9**	0.00	4.4

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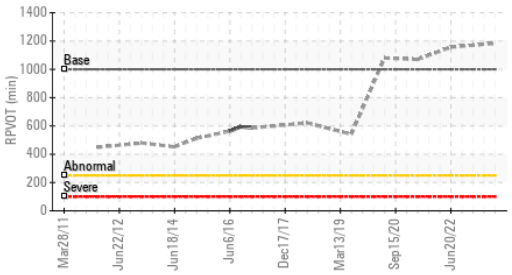
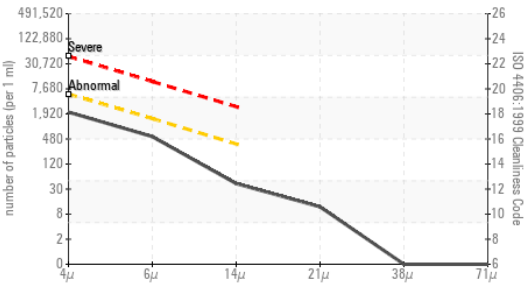
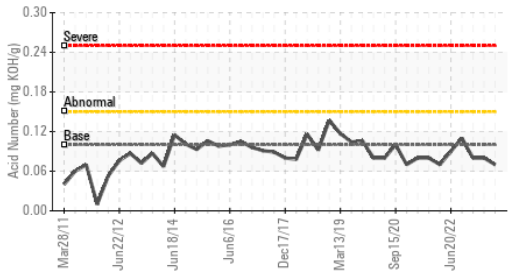
RPVOT



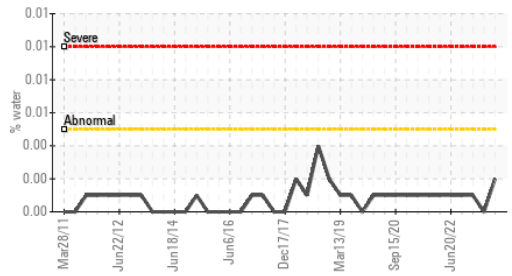
Particle Count



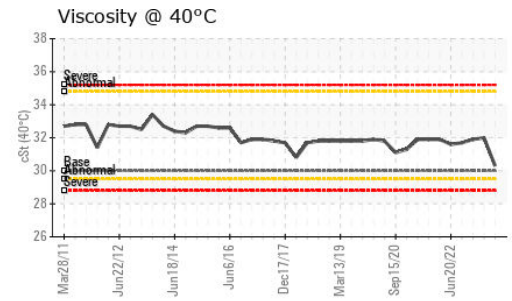
Acid Number



Water



Viscosity @ 40°C

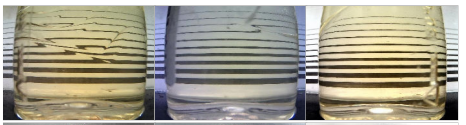


FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>5000	**1854**	306	730
Particles >6µm		ASTM D7647	>1300	**481**	68	237
Particles >14µm		ASTM D7647	>320	**36**	4	22
Particles >21µm		ASTM D7647	>80	**10**	1	4
Particles >38µm		ASTM D7647	>20	**0**	0	0
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/15	**18/16/12**	15/13/9	17/15/12

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	**0.07**	0.08	0.08

VISUAL		method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	30.0	**30.3**	32.0	31.9
Oxidation Test (RPVOT)	minutes	ASTM D2272*	1000	**1184**	---	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0791666 **Received** : 20 Jun 2023
Lab Number : 02565325 **Diagnosed** : 26 Jun 2023
Unique Number : 5594366 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, DR-Ferr, RPVOT, TAN Man)

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
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