



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(ZONE3) BRUCE A/1/33120
Machine Id
1-33120-P4-PM Up Thrust Brg
Component
Upper Thrust Bearing
Fluid
MOBIL DTE 746 (83 GAL)

RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition.

WEAR

Light concentration of visible metal present. The Direct-Reading Ferrographic data (DL, DS, %large) is normal.

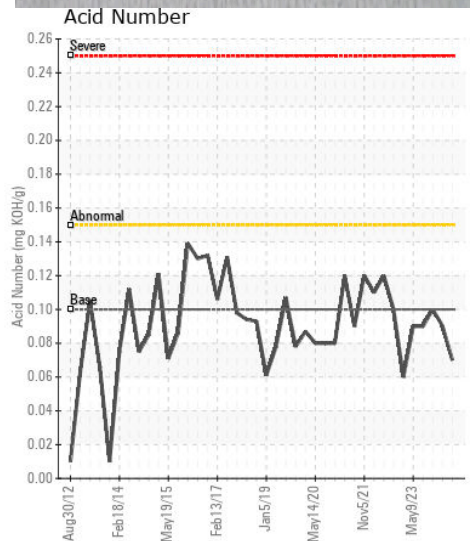
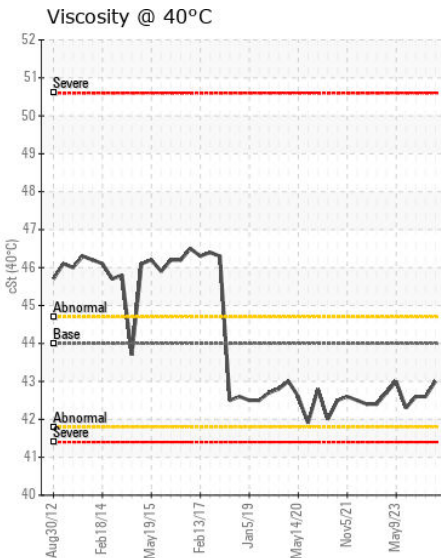
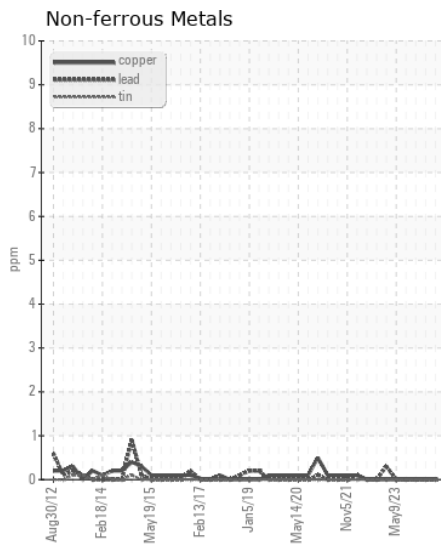
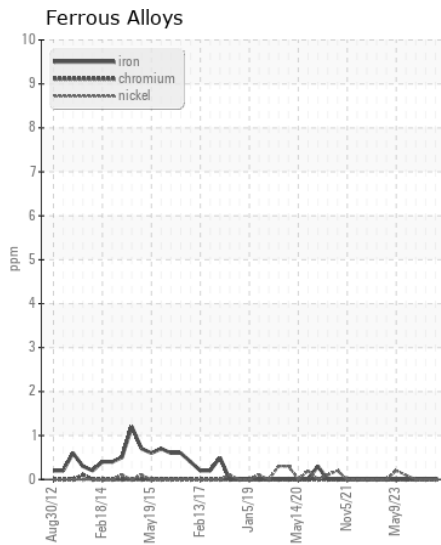
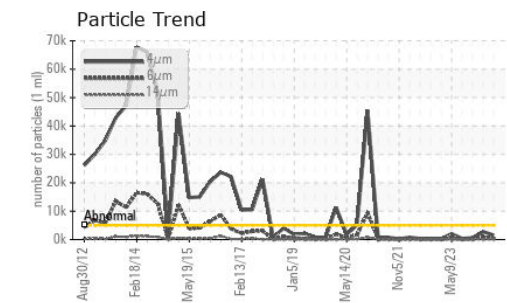
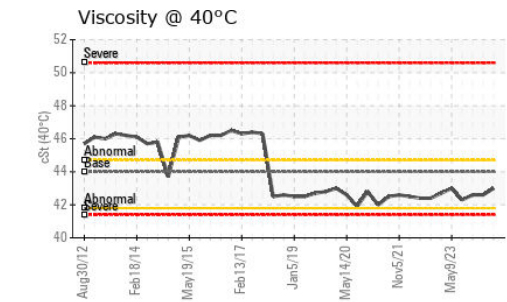
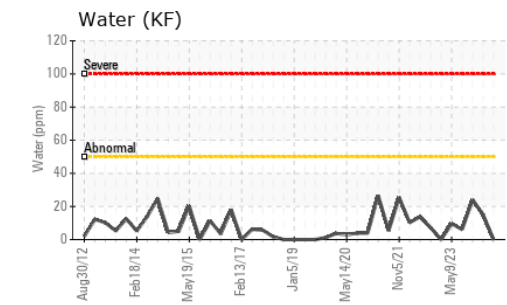
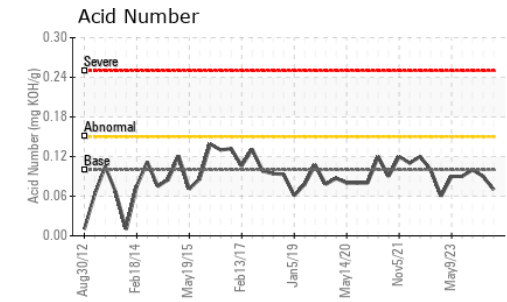
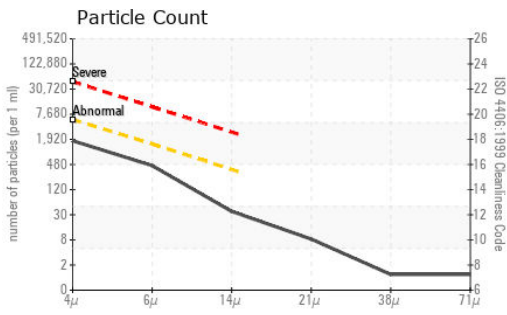
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0915020	WC0871627	WC0815746
Sample Date		Client Info		06 May 2024	09 Feb 2024	08 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>1	0	0	0
Chromium	ppm	ASTM D5185(m)	>1	0	0	0
Nickel	ppm	ASTM D5185(m)	>1	0	0	0
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	0	0	0
Tin	ppm	ASTM D5185(m)	>1	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Large Particles		DR-Ferr*		2.5	1.8	1.2
Small Particles		DR-Ferr*		2.6	0.7	1.1
Total Particles		DR-Ferr*	>---	5.1	2.5	2.3
Large Particles Percentage	%	DR-Ferr*		0	44	4.3
Severity Index		DR-Ferr*		0	2	0
Silicon	ppm	ASTM D5185(m)	>5	0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>0.005	0.00	0.001	0.002
ppm Water	ppm	ASTM D6304*	>50	0	15	24
Particles >4µm		ASTM D7647	>5000	1558	2786	631
Particles >6µm		ASTM D7647	>1300	396	938	203
Particles >14µm		ASTM D7647	>320	32	62	26
Particles >21µm		ASTM D7647	>80	7	7	8
Particles >38µm		ASTM D7647	>20	1	4	1
Particles >71µm		ASTM D7647	>4	1	2	0
Oil Cleanliness		ISO 4406 (c)	<19/17/15	18/16/12	19/17/13	16/15/12
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
Sodium	ppm	ASTM D5185(m)	>5	0	0	0
Boron	ppm	ASTM D5185(m)		0	<1	0
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	0	<1
Calcium	ppm	ASTM D5185(m)		0	0	0
Phosphorus	ppm	ASTM D5185(m)		1	0	0
Zinc	ppm	ASTM D5185(m)		<1	<1	<1
Sulfur	ppm	ASTM D5185(m)		5	0	0
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	0.07	0.09	0.10
Visc @ 40°C	cSt	ASTM D7279(m)	44.0	43.0	42.6	42.6



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0915020
Lab Number : 02637678
Unique Number : 5786840
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, DR-Ferr, FilterPatch, PrtFilter, TAN (m))

Received : 27 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 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

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.

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