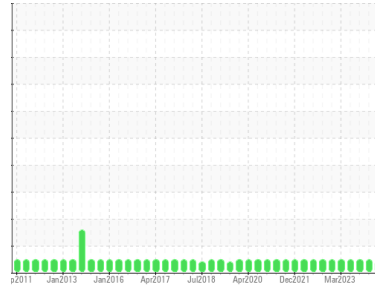




# OIL ANALYSIS REPORT

## Sample Rating Trend



## ADDITIVES



Area

**BRUCE B/8/33120**

Machine Id

**8-33120-P4-PM Up Brg**

Component

**Upper Bearing**

Fluid

**MOBIL DTE 732 (280 GAL)**

### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as MOBIL DTE 732, however, a fluid match indicates that this fluid is ISO 32 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample.

#### 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

Additive levels indicate the addition of a different brand, or type of oil. 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		<b>WC</b>	WC0900617	WC0845452
Sample Date	Client Info		<b>25 Jun 2024</b>	18 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ATTENTION</b>	NORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Chromium	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >1	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Tin	ppm	ASTM D5185(m) >1	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

### DR-FERROGRAPHY

	method	limit/base	current	history1	history2
Large Particles	DR-Ferr*		<b>0.2</b>	0.1	2.1
Small Particles	DR-Ferr*		<b>0.2</b>	0.1	1.7
Total Particles	DR-Ferr*	>---	<b>0.4</b>	0.2	3.8
Large Particles Percentage	%	DR-Ferr*	<b>0</b>	0	10.5
Severity Index	DR-Ferr*		<b>0</b>	0	1

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>0</b>	0	0
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185(m)	<b>11</b>	0	<1
Zinc	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Sulfur	ppm	ASTM D5185(m)	<b>36</b>	34	25
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

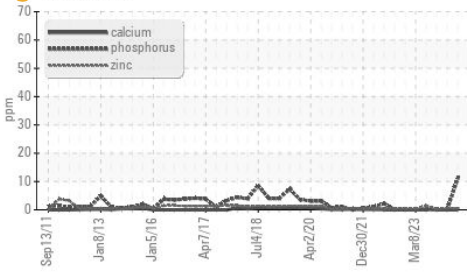
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m) >5	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1
Water	%	ASTM D6304* >0.005	<b>0.002</b>	0.002	0.002
ppm Water	ppm	ASTM D6304* >50	<b>16</b>	16	17

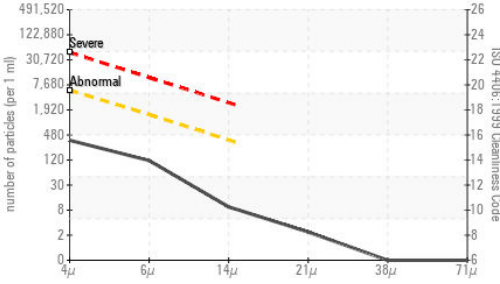


# OIL ANALYSIS REPORT

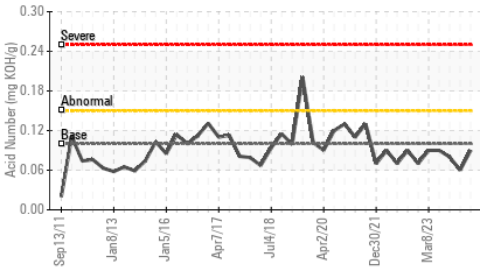
## Additives



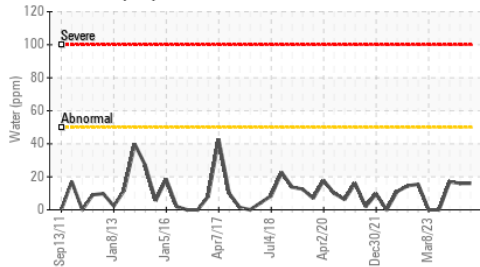
## Particle Count



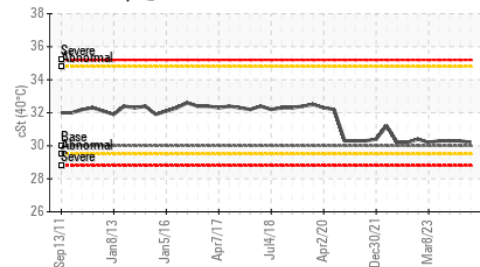
## Acid Number



## Water (KF)



## Viscosity @ 40°C



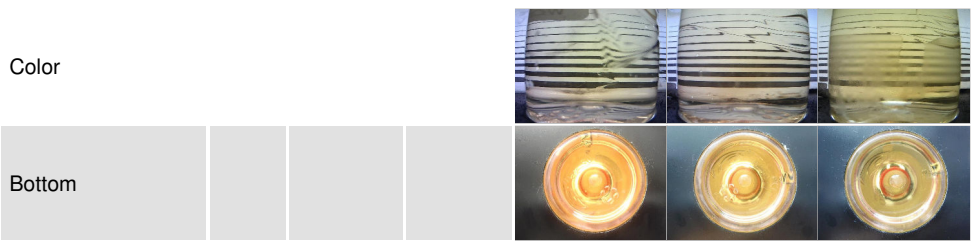
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>315</b>	1247	306
Particles >6µm	ASTM D7647	>1300	<b>103</b>	383	107
Particles >14µm	ASTM D7647	>320	<b>8</b>	29	15
Particles >21µm	ASTM D7647	>80	<b>2</b>	8	5
Particles >38µm	ASTM D7647	>20	<b>0</b>	1	1
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/15	<b>15/14/10</b>	17/16/12	15/14/11

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.10	<b>0.09</b>	0.06	0.08

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual*	>0.005	<b>NEG</b>	NEG	NEG
Free Water	scalar Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	30.0	<b>30.2</b>	30.3	30.3

## SAMPLE IMAGES



Color

Bottom



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC  
**Lab Number** : 02645910  
**Unique Number** : 5811462  
**Test Package** : IND 2 ( Additional Tests: Bottom, DR-Ferr, 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.