

PROBLEM SUMMARY

Sample Rating Trend

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WALMART ORLEANS HILL PHOENIX WM3065 FLEX A (S/N 134450-1)

Circulating Oil

BITZER BSE 85K (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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 in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE						
Particles >4μm	ASTM D7647	>5000	▲ 58449						
Particles >6μm	ASTM D7647	>1300	15090						
Particles >14μm	ASTM D7647	>160	1262						
Particles >21µm	ASTM D7647	>40	321						
Particles >38µm	ASTM D7647	>10	<u>^</u> 22						
Particles >71µm	ASTM D7647	>3	<u>^</u> 6						
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/21/17						

Customer Id: BGIBRA Sample No.: WC0947100 Lab Number: 02645470 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Check Breathers			?	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.			
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

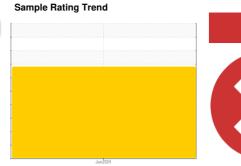


OIL ANALYSIS REPORT

WALMART ORLEANS HILL PHOENIX WM3065 FLEX A (S/N 134450-1)

Circulating Oil

BITZER BSE 85K (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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 in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

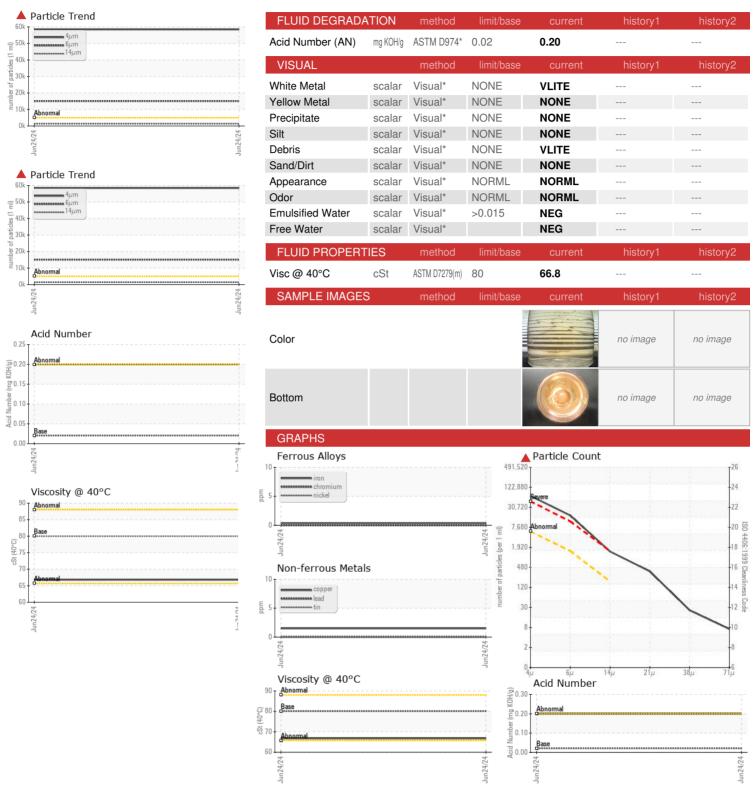
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION							
Sample Date Client Info 6	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 6 Machine Age mths Client Info 0 Oil Age mths Client Info N/A Oil Changed Client Info N/A Sample Status Image: Client Info N/A CONTAMINATION method Image: Client Info N/A Water WC Method >0.015 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTMD5185(m) >20 <1	Sample Number		Client Info		WC0947100		
Machine Age mths Client Info 6 Oil Age mths Client Info 0 Oil Changed Client Info N/A Sample Status Client Info N/A CONTAMINATION method limit/bass current history1 history2 Water WC Method >0.015 NEG WEARM METALS method limit/bass current history1 history2 Iron ppm ASTM D5185(m) >20 <1							
Oil Age Oil Changed Sample Status mths Client Info N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >0.015 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 <1	•	mths			6		
Sample Status		mths	Client Info				
Sample Status	Oil Changed		Client Info		N/A		
Water WC Method >0.015 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 <1	-				SEVERE		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM DS185(m) >20 <1 Chromium ppm ASTM DS185(m) >20 0 Nickel ppm ASTM DS185(m) >20 <1 Titanium ppm ASTM DS185(m) >0 Aluminum ppm ASTM DS185(m) >20 <1 Lead ppm ASTM DS185(m) >20 0 Approximan ASTM DS185(m) 0 0 Approximan ASTM DS185(m) 0 </th <th>CONTAMINATIO</th> <th>N</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.015	NEG		
Chromium ppm ASTM D5185(m) >20 0 Nickel ppm ASTM D5185(m) >20 <1 Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) 20 <1 Aluminum ppm ASTM D5185(m) >20 0 Lead ppm ASTM D5185(m) >20 0 Copper ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 0 <tr< th=""><th>WEAR METALS</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></tr<>	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185(m) >20 <1	Iron	ppm	ASTM D5185(m)	>20	<1		
Titanium	Chromium	ppm	ASTM D5185(m)	>20	0		
Silver	Nickel	ppm	ASTM D5185(m)	>20	<1		
Aluminum ppm ASTM D5185(m) >20 <1 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·	Titanium	ppm	ASTM D5185(m)		0		
Lead ppm ASTM D5185(m) >20 2 Copper ppm ASTM D5185(m) >20 2 Tin ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 Boron ppm ASTM D5185(m) 0 0 Boron ppm ASTM D5185(m) 0 0 Molybdenum ppm ASTM D5185(m) 0 0	Silver	ppm	ASTM D5185(m)		0		
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Sulfur ppm ASTM D5185(m) 0 19 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 10 Sodium ppm ASTM D5185(m) >20 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 \$8449 Particles >6μm ASTM D7647 >1300 \$15090 Particles >1μm ASTM D7647 >160 \$1262 Particles >21μm ASTM D7647 >40 \$321 Particles >71μm ASTM D7647 >3 6	Odiolaiii	ppm	. ,		-		
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Silicon ppm ASTM D5185(m) >15 10 Sodium ppm ASTM D5185(m) 0 Potassium ppm ASTM D5185(m) >20 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 ★ 58449 Particles >6μm ASTM D7647 >1300 ★ 15090 Particles >14μm ASTM D7647 >160 ★ 1262 Particles >21μm ASTM D7647 >40 ★ 321 Particles >38μm ASTM D7647 >10 ★ 22 Particles >71μm ASTM D7647 >3 ★ 6	Phosphorus Zinc	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 1200 0	<1 1797 2		
Sodium ppm ASTM D5185(m) 0 Potassium ppm ASTM D5185(m) >20 <1	Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 1200 0	<1 1797 2 19		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Phosphorus Zinc Sulfur Lithium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 1200 0 0	<1 1797 2 19 <1		
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Particles >4μm ASTM D7647 >5000 ▲ 58449 Particles >6μm ASTM D7647 >1300 ▲ 15090 Particles >14μm ASTM D7647 >160 ▲ 1262 Particles >21μm ASTM D7647 >40 ▲ 321 Particles >38μm ASTM D7647 >10 ▲ 22 Particles >71μm ASTM D7647 >3 ♠ 6	Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	0 1200 0 0 limit/base	<1 1797 2 19 <1 current	 history1	history2
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Particles >14μm ASTM D7647 >160 ▲ 1262 Particles >21μm ASTM D7647 >40 ▲ 321 Particles >38μm ASTM D7647 >10 ▲ 22 Particles >71μm ASTM D7647 >3 ▲ 6	Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLII	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 1200 0 0 limit/base >15 >20 limit/base	<1 1797 2 19 <1 current 10 0 <1 current	history1	history2
Particles >21μm ASTM D7647 >40 321 Particles >38μm ASTM D7647 >10 22 Particles >71μm ASTM D7647 >3 6	Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLII Particles >4µm	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m)	0 1200 0 0 limit/base >15 >20 limit/base >5000	<1 1797 2 19 <1 current 10 0 <1 current \$\text{\$\text{\$\text{\$58449}}\$}\$	history1	history2 history2
Particles >38μm ASTM D7647 >10 ▲ 22 Particles >71μm ASTM D7647 >3 ▲ 6	Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIII Particles >4µm Particles >6µm	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647	0 1200 0 0 limit/base >15 >20 limit/base >5000 >1300	<1 1797 2 19 <1 current 10 0 <1 current \$\times 58449\$ \$\times 15090\$	history1 history1	history2 history2
Particles >71μm ASTM D7647 >3 6	Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLII Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	0 1200 0 0 limit/base >15 >20 limit/base >5000 >1300 >160	<1 1797 2 19 <1 current 10 0 <1 current ▲ 58449 ▲ 15090 ▲ 1262	history1 history1	history2 history2
	Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium FLUID CLEANLII Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 1200 0 0 0 limit/base >15 >20 limit/base >5000 >1300 >160 >40	<1 1797 2 19 <1 current 10 0 <1 current ▲ 58449 ▲ 15090 ▲ 1262 ▲ 321	history1 history1	history2 history2
	Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 1200 0 0 0 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	<1 1797 2 19 <1 current 10 0 <1 current ▲ 58449 ▲ 15090 ▲ 1262 ▲ 321 ▲ 22	history1 history1	history2 history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0947100 Lab Number : 02645470 Unique Number : 5803009

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 04 Jul 2024 Tested : 08 Jul 2024

: 08 Jul 2024 - Kevin Marson

Diagnosed Test Package : IND 2 (Additional Tests: PrtCount) 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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T: (519)802-7911

Contact/Location: Terry Barnes - BGIBRA