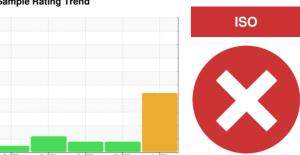


PROBLEM SUMMARY

Sample Rating Trend



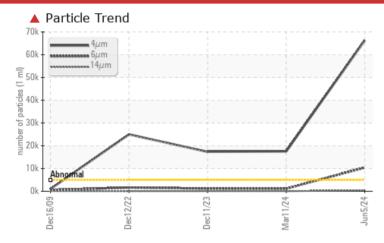
[212429]

BALEMASTER 4830G-8 04101 - STARBUCKS (S/N 04101B)

Component Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS										
Sample Status			SEVERE	ABNORMAL	ABNORMAL					
Particles >4µm	ASTM D7647	>5000	▲ 66243	<u>▲</u> 17519	▲ 17338					
Particles >6µm	ASTM D7647	>1300	10411	1112	1170					
Particles >14µm	ASTM D7647	>160	448	46	27					
Particles >21µm	ASTM D7647	>40	134	11	8					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/21/16	<u>^</u> 21/17/13	<u>▲</u> 21/17/12					

Customer Id: ADVFRA **Sample No.:** WC0911549 Lab Number: 06207070 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@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.				
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.				
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

11 Mar 2024 Diag: Wes Davis

ISO

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



11 Dec 2023 Diag: Wes Davis



The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



12 Dec 2022 Diag: Angela Borella



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





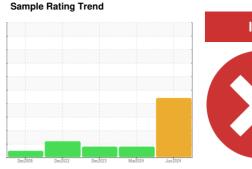
OIL ANALYSIS REPORT

[212429]

BALEMASTER 4830G-8 04101 - STARBUCKS (S/N 04101B)

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

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

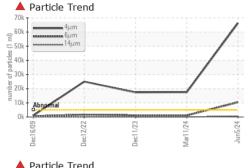
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

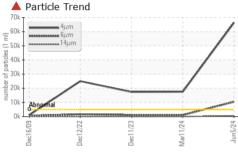
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	VIATION		IIIIIIVDase			•
Sample Number		Client Info		WC0911549	WC0885297 11 Mar 2024	WC0858564
Sample Date	bro	Client Info		05 Jun 2024		11 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age Oil Changed	1115	Client Info		Filtered	Filtered	Filtered
Sample Status		Ciletit iiilo		SEVERE	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water	IN	WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	1	3
Chromium	ppm	ASTM D5185m		1	1	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	2	2
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	9	10	10
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	0	2	<1
Calcium	ppm	ASTM D5185m	200	48	40	48
Phosphorus	ppm	ASTM D5185m	300	309	293	326
Zinc	ppm	ASTM D5185m	370	375	387	402
Sulfur	ppm	ASTM D5185m	2500	4269	4036	4188
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 66243	<u> 17519</u>	▲ 17338
Particles >6µm		ASTM D7647		▲ 10411	1112	1170
Particles >14µm		ASTM D7647	>160	<u>448</u>	46	27
Particles >21µm		ASTM D7647		<u>134</u>	11	8
Particles >38µm		ASTM D7647	>10	10	0	1
Particles >71µm Oil Cleanliness		ASTM D7647		1	0	0
		ISO 4406 (c)	>19/17/14	23/21/16	<u>21/17/13</u>	<u>21/17/12</u>
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

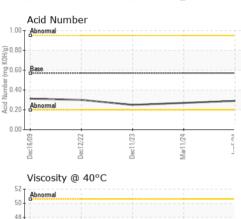
Contact/Location: JEFF BURNLEY - ADVFRA

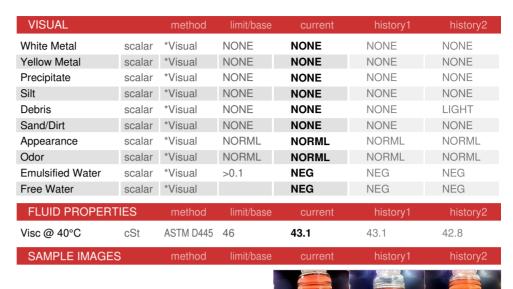


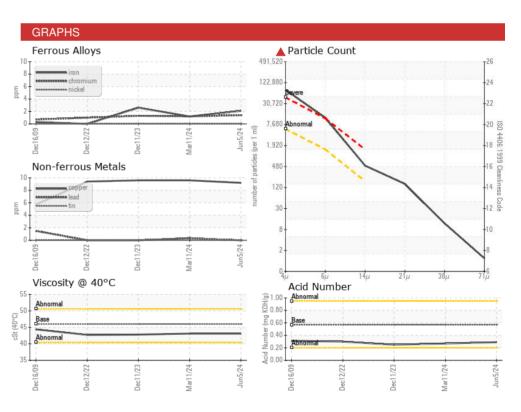
OIL ANALYSIS REPORT













42

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Certificate 12367

Dec11/23

Mar11/24 -

Laboratory Sample No.

Lab Number : 06207070 Unique Number : 11074531

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0911549

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Color

Bottom

Received Tested

: 11 Jun 2024 : 13 Jun 2024

Diagnosed : 13 Jun 2024 - Wes Davis

535 HAGEY RD SOUDERTON, PA

US 18964 Contact: JEFF BURNLEY jburnley@aesales.net T: (215)723-7200

ADVANCED EQUIPMENT SALES

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (215)723-7201