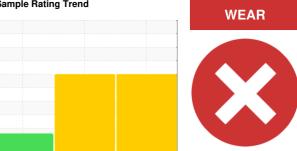


# **PROBLEM SUMMARY**

# Sample Rating Trend



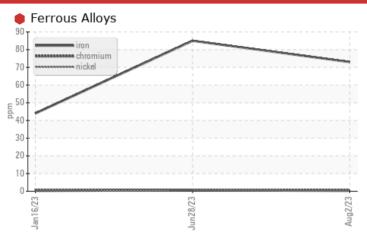
# Machine Id HITACHI BL619

Component

**Hydraulic System** 

**BIOFLO AW 46 (--- GAL)** 

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: Sample number 2 for 3707 hours )

PROBLEMATIC TEST RESULTS											
Sample Status				SEVERE	SEVERE	ABNORMAL					
Iron	mag	ASTM D5185m	>20	<b>1</b> 73	<b>a</b> 85	<u> 44</u>					

Customer Id: BRUABE **Sample No.:** PE0002362 Lab Number: 05924140 Test Package: CONST To manage this report scan the QR code To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

# Action Status Date Done By Description Inspect Wear Source --- ? We advise that you inspect for the source(s) of wear. Resample --- ? We recommend an early resample to monitor this condition.

# HISTORICAL DIAGNOSIS

### 28 Jun 2023 Diag: Jonathan Hester

### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is abnormal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



# 16 Jan 2023 Diag: Don Baldridge

#### WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other 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**

# HITACHI BL619

Component

**Hydraulic System** 

**BIOFLO AW 46 (--- GAL)** 

# Sample Rating Trend



# DIAGNOSIS

### Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: Sample number 2 for 3707 hours )

# Wear

The iron level is abnormal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

# **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jan	7073	Jun2023 Aug2	023	
SAMPLE INFORM	MATION	method	limit/base		history1	history2
Sample Number		Client Info		PE0002362	PE0002354	PE0000482
Sample Date		Client Info		02 Aug 2023	28 Jun 2023	16 Jan 2023
Machine Age	hrs	Client Info		3707	3707	3219
Oil Age	hrs	Client Info		0	3707	0
Oil Changed	1110	Client Info		Not Changd	Not Changd	N/A
Sample Status		Oliciit iiilo		SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		19	21	7
Iron	ppm	ASTM D5185m	>20	<b>1</b> 3	<b>a</b> 85	44
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m	>10	<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	3
Lead	ppm		>10	0	1	<1
Copper	ppm	ASTM D5185m	>75	1	2	<1
Tin	ppm		>10	0	0	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	2
Calcium	ppm	ASTM D5185m		0	0	3
Phosphorus	ppm	ASTM D5185m		494	526	431
Zinc	ppm	ASTM D5185m		227	253	155
Sulfur	ppm	ASTM D5185m		1325	1257	1041
CONTAMINANTS	3	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>20	4	5	4
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	1	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	544	1089	▲ 10580
Particles >6µm		ASTM D7647		64	108	1110
Particles >14µm		ASTM D7647	>160	5	3	15
Particles >21µm		ASTM D7647		3	0	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10	17/14/9	<u>\( 21/17/11</u>
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.20	1.12	0.73



# **OIL ANALYSIS REPORT**

