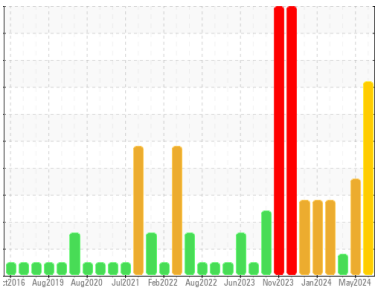
PROBLEM SUMMARY

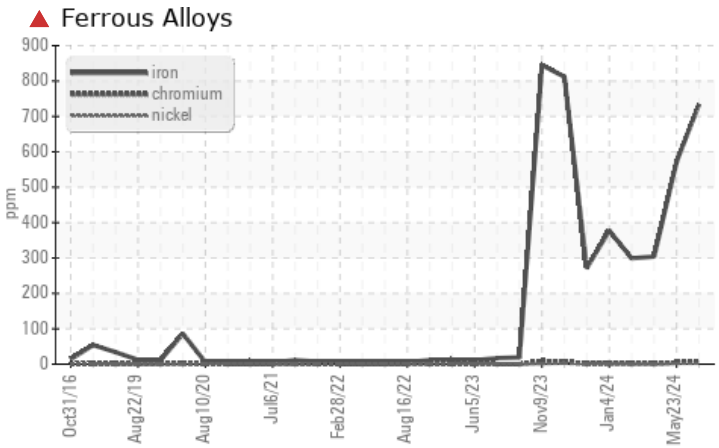
Sample Rating Trend



WEAR

Area
MELT SHOP - BAGHOUSE FANS
Machine Id
M/S BAGHOUSE FAN 151B M/S (S/N 15-6400-2000-1010)
Component
Inboard Journal Bearing
Fluid
AW HYDRAULIC OIL ISO 100 (3 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>60	▲ **734**	▲ 572	▲ 304
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE

Customer Id: OUTCALAL
Sample No.: RP0044250
Lab Number: 06199751
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

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

WEAR

23 May 2024 Diag: Angela Borella

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor.Bearing wear is indicated. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

WEAR

08 Apr 2024 Diag: Angela Borella

No corrective action is recommended at this time. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

WEAR

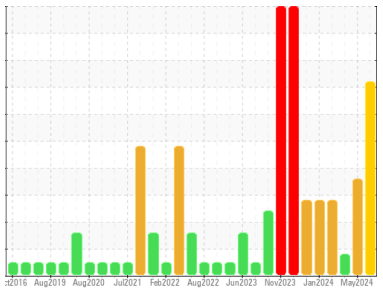
16 Jan 2024 Diag: Don Baldridge

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.The iron level has decreased, but is still abnormal. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
MELT SHOP - BAGHOUSE FANS
Machine Id
M/S BAGHOUSE FAN 151B M/S (S/N 15-6400-2000-1010)
Component
Inboard Journal Bearing
Fluid
AW HYDRAULIC OIL ISO 100 (3 LTR)

DIAGNOSIS

▲ Recommendation
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
Moderate concentration of visible metal present. Gear wear is indicated.

Contamination
The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0044250**	RP0044013	RP0038007
Sample Date		Client Info		**03 Jun 2024**	23 May 2024	08 Apr 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**81**	▲ 77	48
Iron	ppm	ASTM D5185m	>60	▲ **734**	▲ 572	▲ 304
Chromium	ppm	ASTM D5185m	>20	**5**	4	2
Nickel	ppm	ASTM D5185m	>20	**2**	2	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	1	0
Aluminum	ppm	ASTM D5185m	>4	**3**	3	2
Lead	ppm	ASTM D5185m	>250	**0**	<1	0
Copper	ppm	ASTM D5185m	>125	**6**	6	3
Tin	ppm	ASTM D5185m	>80	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

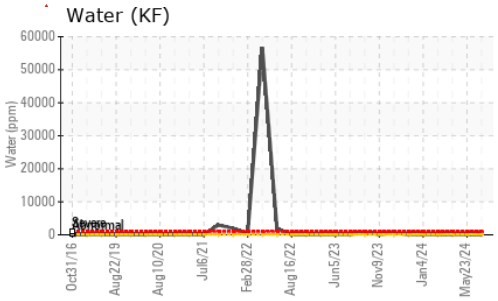
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**7**	0	7
Barium	ppm	ASTM D5185m	5	**0**	2	<1
Molybdenum	ppm	ASTM D5185m	5	**264**	292	293
Manganese	ppm	ASTM D5185m		**10**	7	4
Magnesium	ppm	ASTM D5185m	25	**<1**	2	<1
Calcium	ppm	ASTM D5185m	200	**4**	5	0
Phosphorus	ppm	ASTM D5185m	300	**439**	486	492
Zinc	ppm	ASTM D5185m	370	**0**	14	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**6**	7	3
Sodium	ppm	ASTM D5185m		**2**	<1	2
Potassium	ppm	ASTM D5185m	>20	**1**	2	0
Water	%	ASTM D6304	>2	**0.006**	0.003	0.006
ppm Water	ppm	ASTM D6304		**64**	28	70

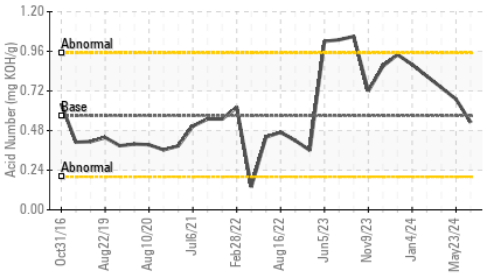
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.53**	0.67	0.74

OIL ANALYSIS REPORT

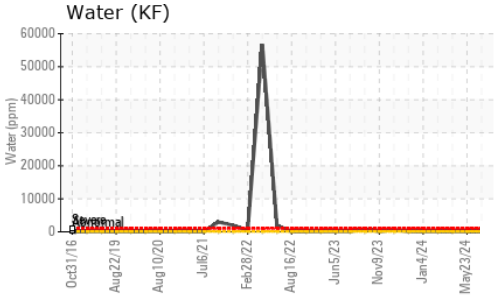
Water (KF)



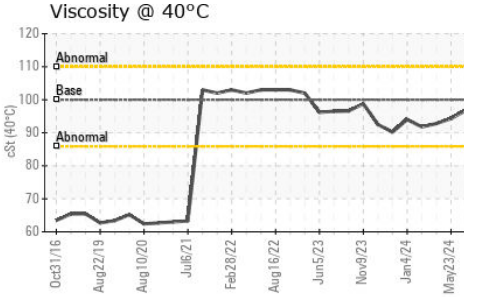
Acid Number



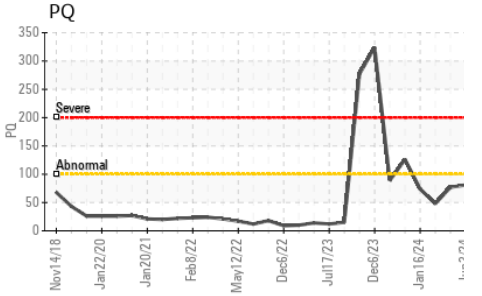
Water (KF)



Viscosity @ 40°C



PQ



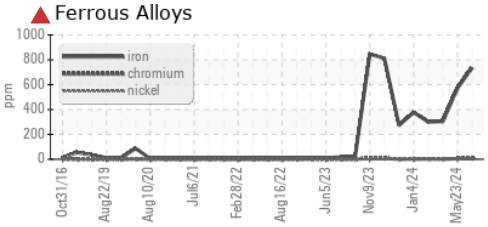
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	>2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	**96.76**	94.3	92.8

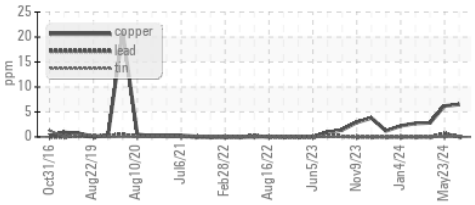
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

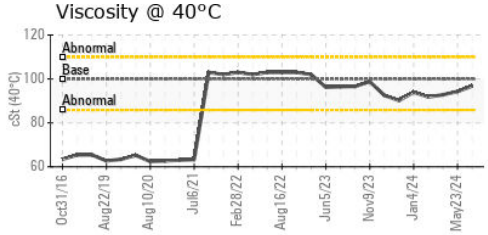
▲ Ferrous Alloys



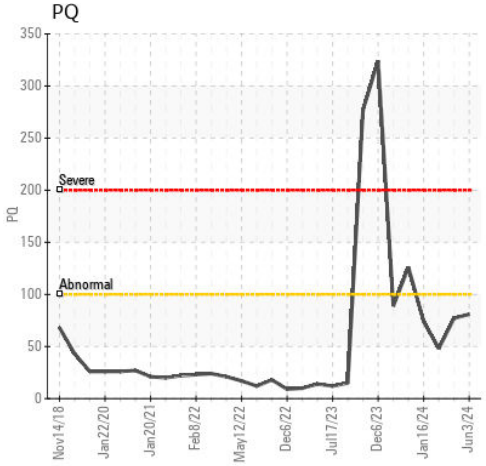
Non-ferrous Metals



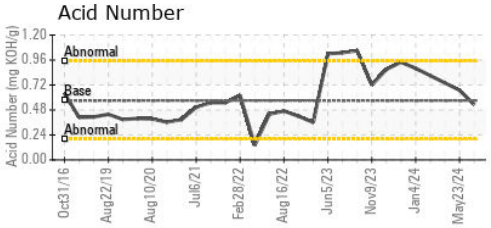
Viscosity @ 40°C



PQ



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0044250 **Received** : 04 Jun 2024
Lab Number : 06199751 **Tested** : 04 Jun 2024
Unique Number : 11061874 **Diagnosed** : 04 Jun 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: PQ)

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

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Report Id: OUTCALAL [WUSCAR] 06199751 (Generated: 06/04/2024 16:42:04) Rev: 1

Submitted By: DALE ROBINSON