



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

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)**

**RECOMMENDATION**

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RP0039313</b>	RP0038374	RP0034997
Sample Date		Client Info		<b>16 Jan 2024</b>	04 Jan 2024	12 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

The iron level has decreased, but is still abnormal. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

PQ		ASTM D8184		<b>▲ 74</b>	▲ 126	▲ 89
Iron	ppm	ASTM D5185m	>60	<b>▲ 299</b>	▲ 377	▲ 272
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>4	<b>1</b>	<1	1
Lead	ppm	ASTM D5185m	>250	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>125	<b>3</b>	2	1
Tin	ppm	ASTM D5185m	>80	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

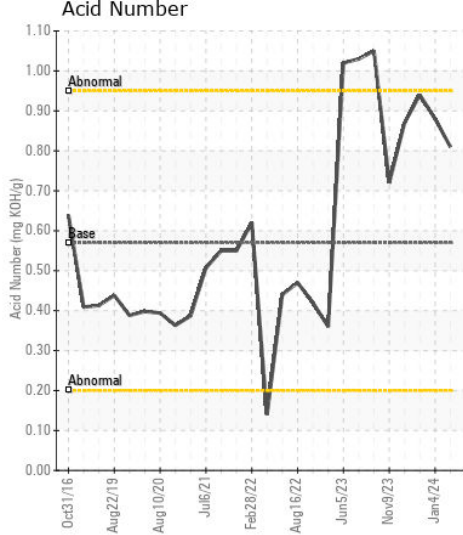
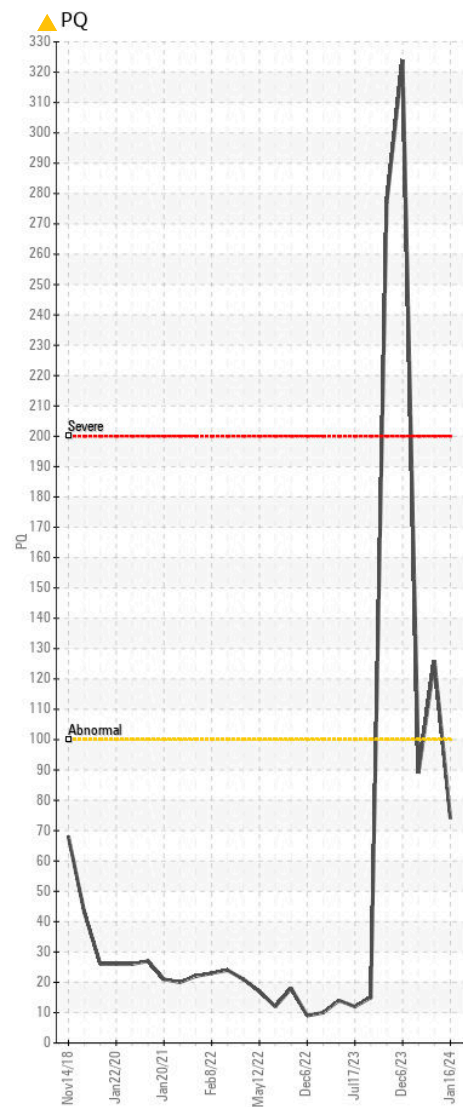
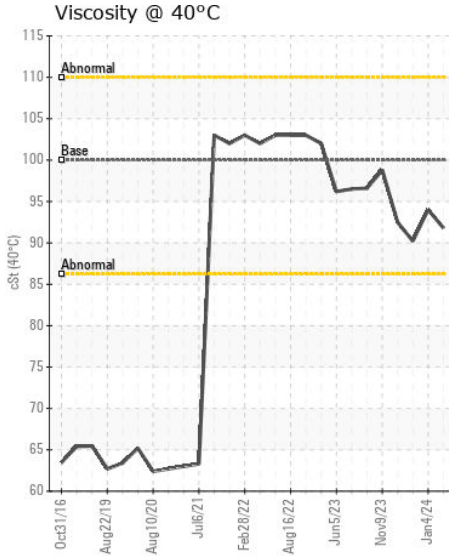
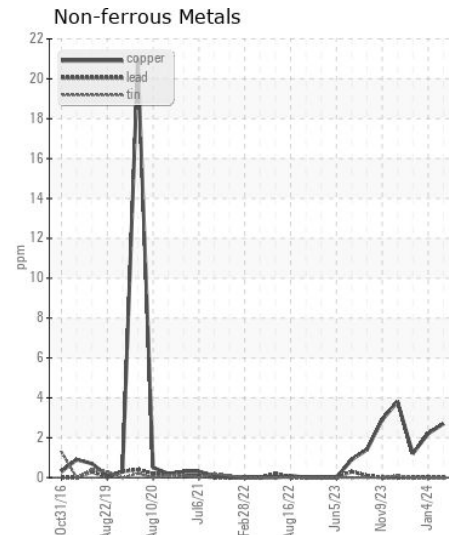
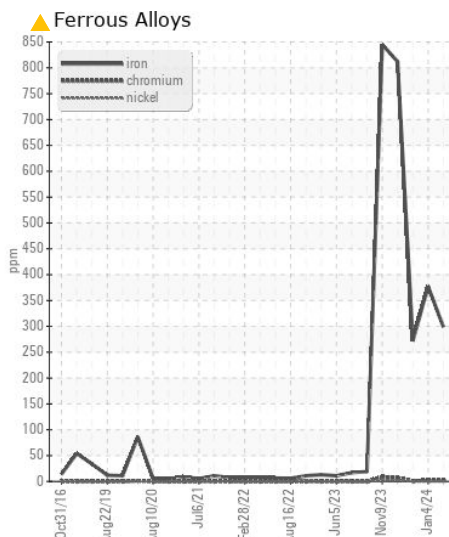
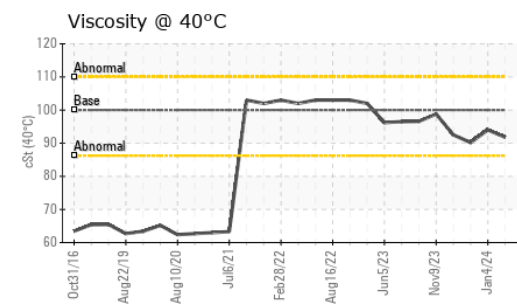
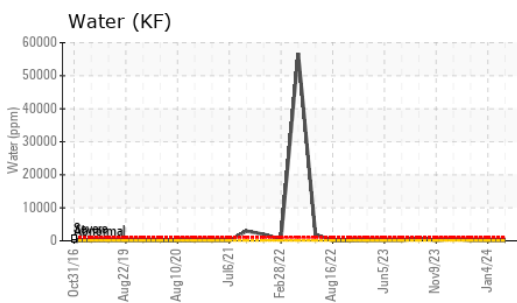
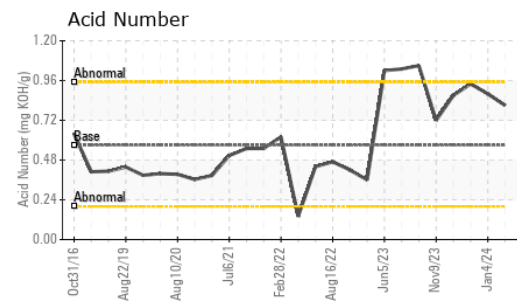
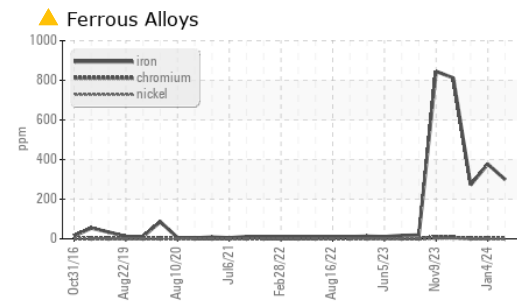
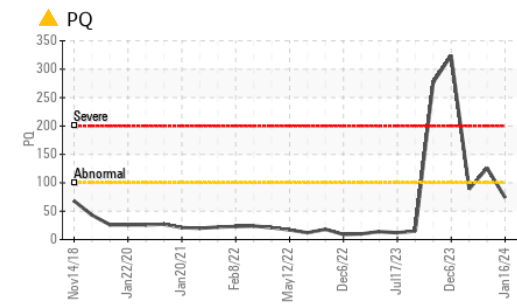
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water	%	ASTM D6304	>2	<b>0.005</b>	0.006	0.010
ppm Water	ppm	ASTM D6304		<b>58</b>	62	109
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	>2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>287</b>	304	334
Manganese	ppm	ASTM D5185m		<b>3</b>	3	2
Magnesium	ppm	ASTM D5185m	25	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m	200	<b>5</b>	7	7
Phosphorus	ppm	ASTM D5185m	300	<b>511</b>	513	521
Zinc	ppm	ASTM D5185m	370	<b>0</b>	4	0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.81</b>	0.88	0.94
Visc @ 40°C	cSt	ASTM D445	100	<b>91.8</b>	94.0	90.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0039313 **Received** : 17 Jan 2024  
**Lab Number** : 06063689 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835071 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PQ )

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Certificate L2367  
 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)