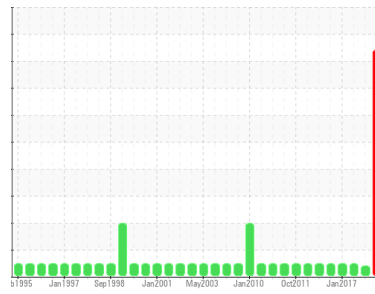




PROBLEM SUMMARY

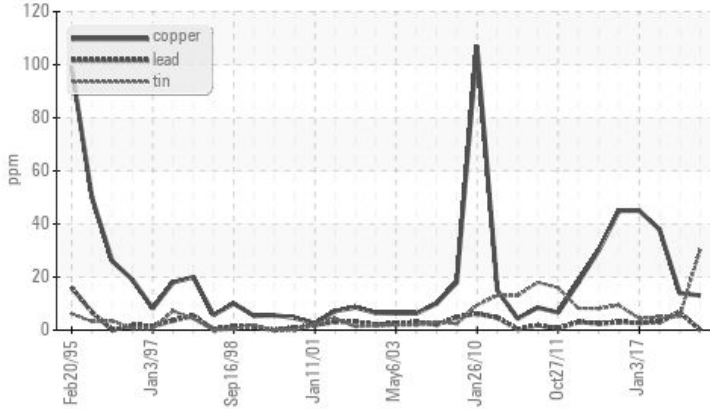
Area
63 STEAM GENERATING & DISTRIBUTION
 Machine Id
Power Boiler F.D. Fan - Inboard Bearing (S/N 632501)
 Component
Inboard Bearing
 Fluid
ESSO NUTO H ISO 68 (1 GAL)

Sample Rating Trend

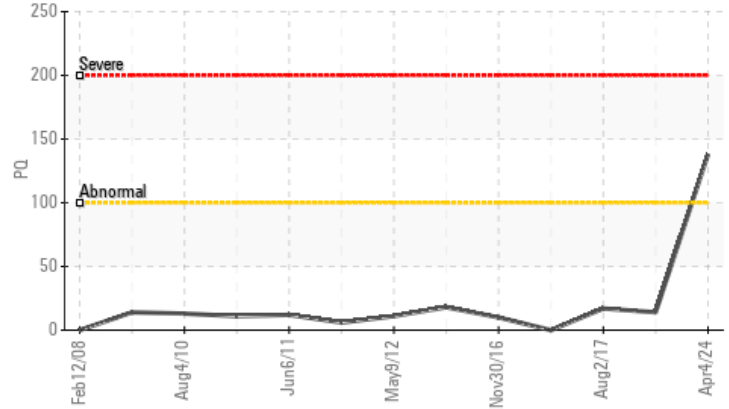


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ PQ



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184*	▲ 138	14	17
Tin	ppm	ASTM D5185(m) >10	▲ 30	5	5
Antimony	ppm	ASTM D5185(m)	▲ 2	<1	<1

Customer Id: STANAC
 Sample No.: WC
 Lab Number: 02628228
 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 Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

VISCOSITY



13 Feb 2019 Diag: Kevin Marson

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



NORMAL



02 Aug 2017 Diag: Wes Davis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



NORMAL



03 Jan 2017 Diag: Wes Davis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)

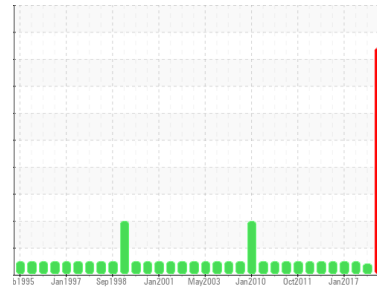




OIL ANALYSIS REPORT

Area
63 STEAM GENERATING & DISTRIBUTION
 Machine Id
Power Boiler F.D. Fan - Inboard Bearing (S/N 632501)
 Component
Inboard Bearing
 Fluid
ESSO NUTO H ISO 68 (1 GAL)

Sample Rating Trend



DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

▲ Wear

Tin ppm levels are severe. PQ levels are abnormal. Antimony ppm levels are marginal. Bearing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC	WC	WC980017
Sample Date	Client Info		04 Apr 2024	13 Feb 2019	02 Aug 2017
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	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		▲ 138	14	17
Iron	ppm	ASTM D5185(m) >200	136	6	2
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >5	<1	0	0
Titanium	ppm	ASTM D5185(m) >5	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >25	<1	<1	<1
Lead	ppm	ASTM D5185(m) >50	<1	7	3
Copper	ppm	ASTM D5185(m) >150	13	14	38
Tin	ppm	ASTM D5185(m) >10	▲ 30	5	5
Antimony	ppm	ASTM D5185(m)	▲ 2	<1	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<1	0	0
Barium	ppm	ASTM D5185(m) 0	0	0	<1
Molybdenum	ppm	ASTM D5185(m) 0	0	0	0
Manganese	ppm	ASTM D5185(m)	1	<1	<1
Magnesium	ppm	ASTM D5185(m) 5	<1	<1	0
Calcium	ppm	ASTM D5185(m) 50	52	49	57
Phosphorus	ppm	ASTM D5185(m) 330	329	333	355
Zinc	ppm	ASTM D5185(m) 420	423	431	447
Sulfur	ppm	ASTM D5185(m) 3100	6414	7226	2707
Lithium	ppm	ASTM D5185(m)	<1	0	<1

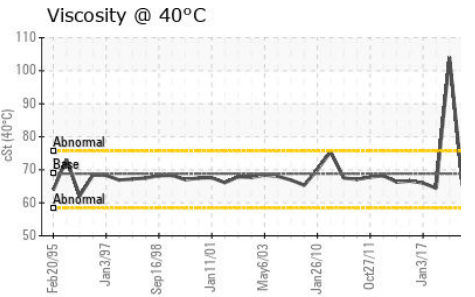
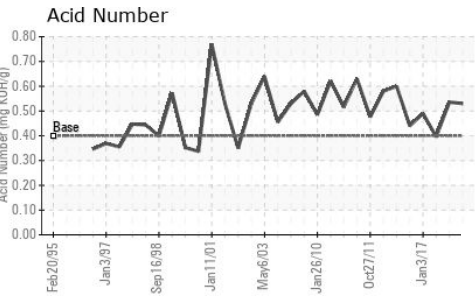
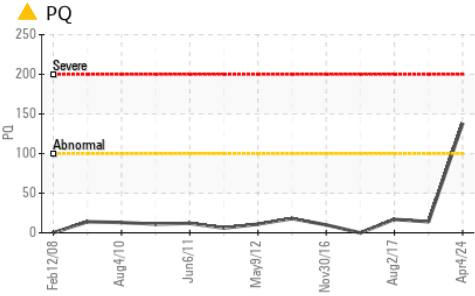
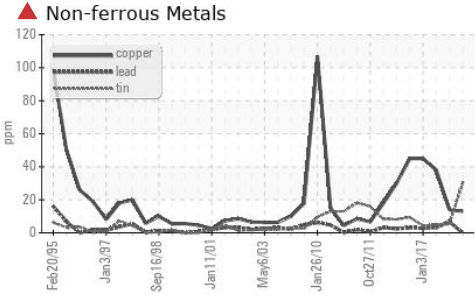
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	22	2	3
Sodium	ppm	ASTM D5185(m)	<1	<1	2
Potassium	ppm	ASTM D5185(m) >20	<1	0	<1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* .40	0.53	0.536	0.396

OIL ANALYSIS REPORT

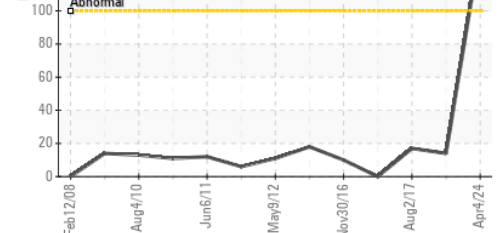
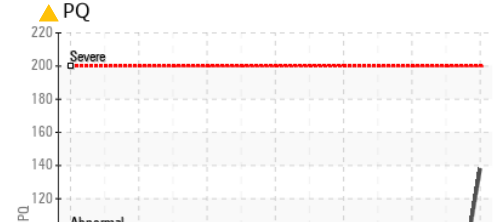
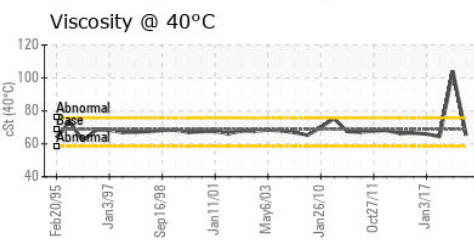
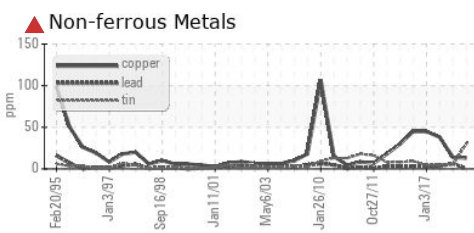
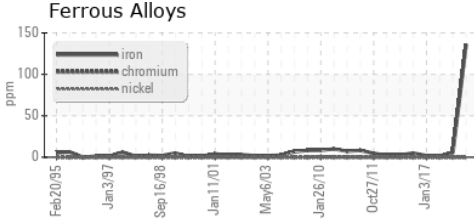


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68.8	65.3	104

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02628228
Unique Number : 5761360
Test Package : IND 2 (Additional Tests: TAN Man)
Received : 11 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 11 Apr 2024 - Kevin Marson

AV GROUP NB INC.
 103 PINDER ROAD,, NACKAWIC MILL
 NACKAWIC, NB
 CA E6G 1W4
 Contact: Basil Fadulalla
 basil.fadulalla@adityabirla.com

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.