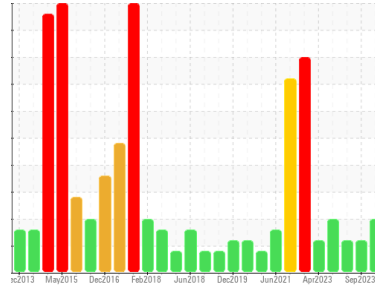




PROBLEM SUMMARY

Area
412
 Machine Id
71 BANBURY MOTOR
 Component
Inboard Journal Bearing
 Fluid
ESSO NUTO H ISO 68 (1 QTS)

Sample Rating Trend

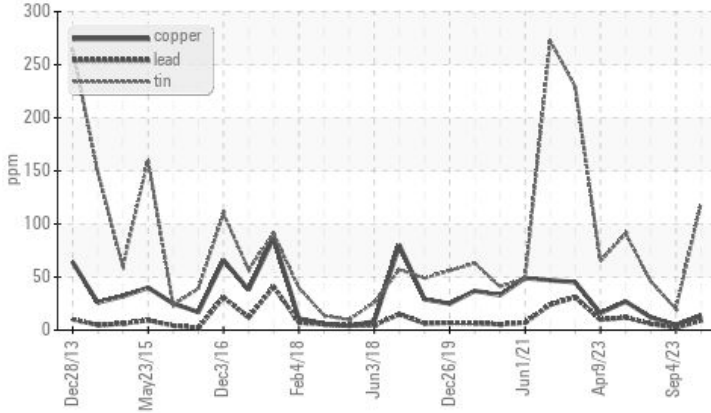


VISUAL METAL



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Tin	ppm	ASTM D5185m	>80	▲ 119	20	46
White Metal	scalar	*Visual	NONE	▲ MODER	▲ MODER	▲ MODER

Customer Id: BRIDES
 Sample No.: WC0838931
 Lab Number: 06009517
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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.
Alert	---	---	?	We were unable to perform a particle count due to metal particles present in this sample.

HISTORICAL DIAGNOSIS

04 Sep 2023 Diag: Don Baldrige

VISUAL METAL



The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



07 Aug 2023 Diag: Doug Bogart

VISUAL METAL



The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



05 Jul 2023 Diag: Angela Borella

VISUAL METAL



The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. The tin level is abnormal. Moderate concentration of visible metal present. All other component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

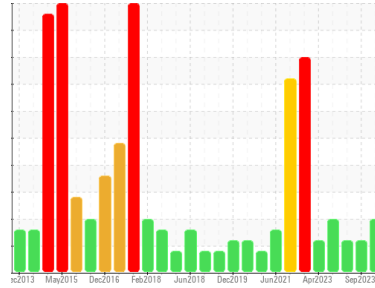
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Area
412
 Machine Id
71 BANBURY MOTOR
 Component
Inboard Journal Bearing
 Fluid
ESSO NUTO H ISO 68 (1 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

Wear

The tin level is abnormal. Moderate concentration of visible metal present. All other component wear rates are normal.

Contamination

No other contaminants were detected in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0838931	WC0838898	WC0397550
Sample Date	Client Info		10 Nov 2023	04 Sep 2023	07 Aug 2023
Machine Age	mths	Client Info	6	1	1
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		9	11	11
Iron	ppm	ASTM D5185m >60	5	0	<1
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >4	<1	0	<1
Lead	ppm	ASTM D5185m >250	9	2	6
Copper	ppm	ASTM D5185m >125	14	5	12
Tin	ppm	ASTM D5185m >80	▲ 119	20	46
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 0	7	0	<1
Molybdenum	ppm	ASTM D5185m 0	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 5	<1	0	7
Calcium	ppm	ASTM D5185m 50	41	53	43
Phosphorus	ppm	ASTM D5185m 330	326	355	324
Zinc	ppm	ASTM D5185m 420	391	438	399
Sulfur	ppm	ASTM D5185m 3100	2961	3857	3196

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	3	2	2
Sodium	ppm	ASTM D5185m	0	<1	2
Potassium	ppm	ASTM D5185m >20	<1	0	<1

FLUID DEGRADATION

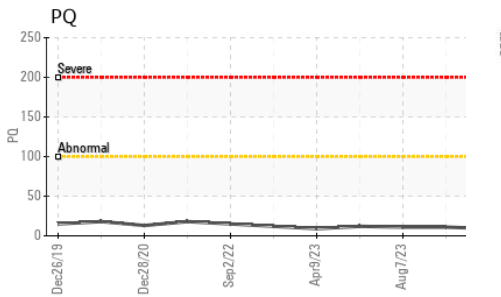
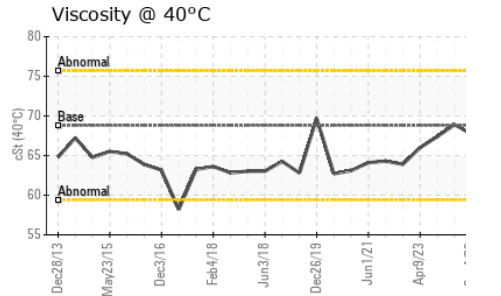
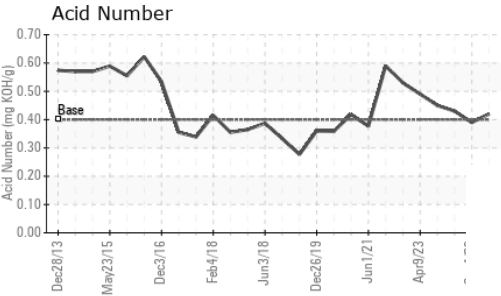
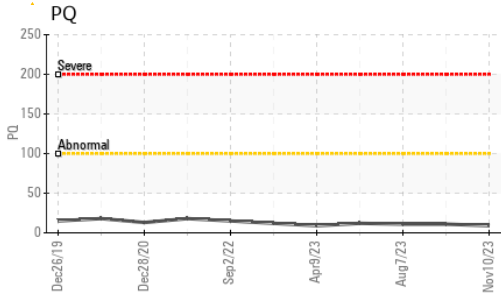
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 .40	0.42	0.39	0.43

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	▲ MODER	▲ MODER	▲ MODER
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	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

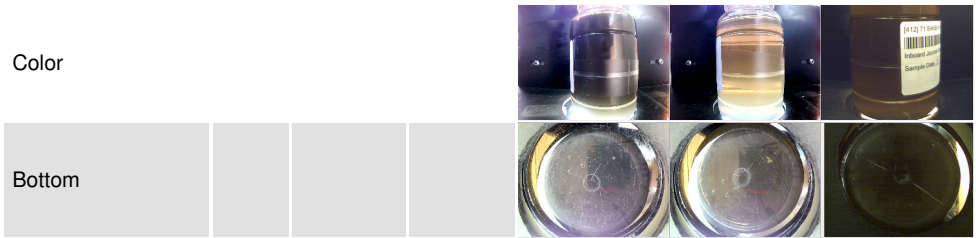


OIL ANALYSIS REPORT

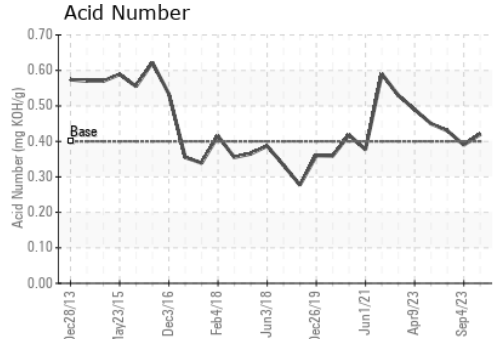
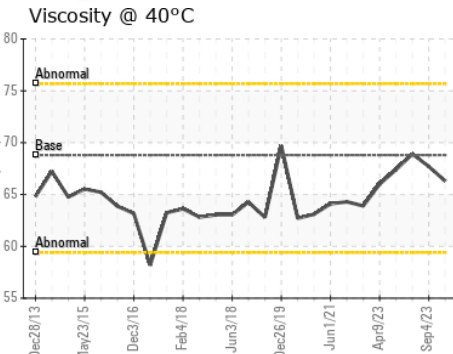
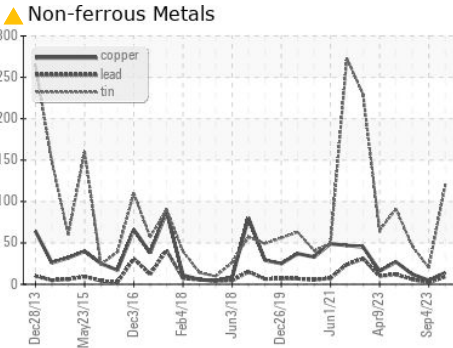
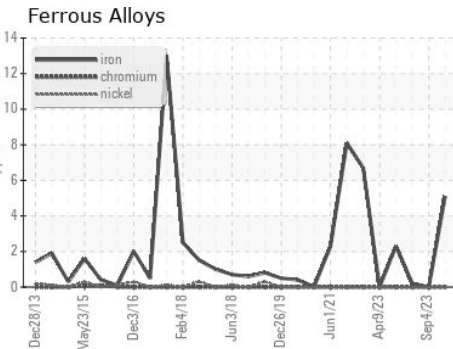


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	68.8	66.3	67.7	68.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0838931
Lab Number : 06009517
Unique Number : 10743279
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

BRIDGESTONE FIRESTONE - DES MOINES
 4600 NW 2ND AVE
 DES MOINES, IA
 US 50313
 Contact: SCOTT CARTER
 CarterScottA@FirestoneAg.com

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)

T: x:
F: x: