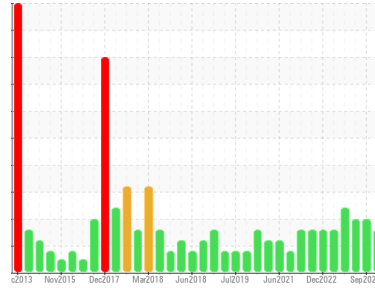




PROBLEM SUMMARY

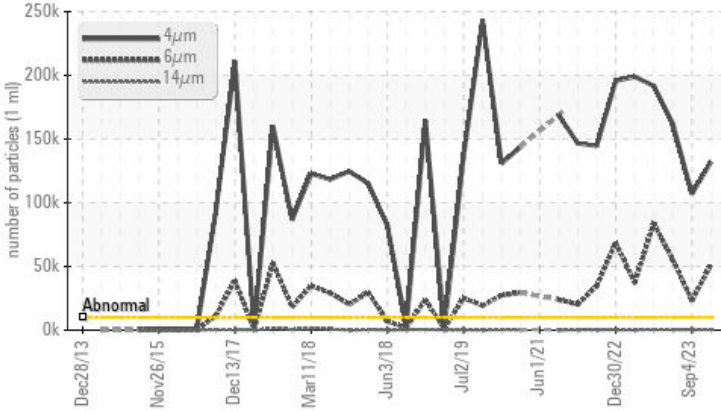
Area
412
 Machine Id
75 BANBURY MOTOR
 Component
Outboard Journal Bearing
 Fluid
ESSO NUTO H ISO 68 (1 QTS)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 132028	▲ 106961	▲ 161845
Particles >6µm	ASTM D7647	>2500	▲ 51351	▲ 23326	▲ 55119
Particles >14µm	ASTM D7647	>160	▲ 427	▲ 303	▲ 406
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 24/23/16	▲ 24/22/15	▲ 25/23/16

Customer Id: BRIDES
 Sample No.: WC0838842
 Lab Number: 06009536
 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

04 Sep 2023 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



07 Aug 2023 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



05 Jul 2023 Diag: Angela Borella

WEAR



The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. The tin level is abnormal. Bearing wear is indicated. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

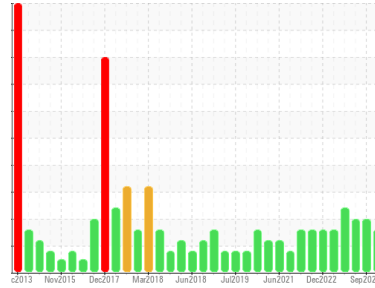
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0838842	WC0838907	WC0397549
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		16	9	11
Iron	ppm	ASTM D5185m >60	<1	<1	0
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	0
Aluminum	ppm	ASTM D5185m >4	<1	0	<1
Lead	ppm	ASTM D5185m >250	4	5	<1
Copper	ppm	ASTM D5185m >125	13	9	8
Tin	ppm	ASTM D5185m >80	35	8	64
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

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	6
Calcium	ppm	ASTM D5185m 50	40	53	41
Phosphorus	ppm	ASTM D5185m 330	320	353	323
Zinc	ppm	ASTM D5185m 420	381	435	392
Sulfur	ppm	ASTM D5185m 3100	3080	3865	2975

CONTAMINANTS

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

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 132028	▲ 106961	▲ 161845
Particles >6µm	ASTM D7647	>2500	▲ 51351	▲ 23326	▲ 55119
Particles >14µm	ASTM D7647	>160	▲ 427	▲ 303	▲ 406
Particles >21µm	ASTM D7647	>40	40	▲ 45	▲ 60
Particles >38µm	ASTM D7647	>10	1	1	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 24/23/16	▲ 24/22/15	▲ 25/23/16

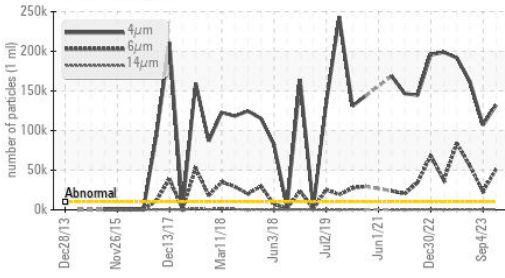
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 .40	0.41	0.38	0.42

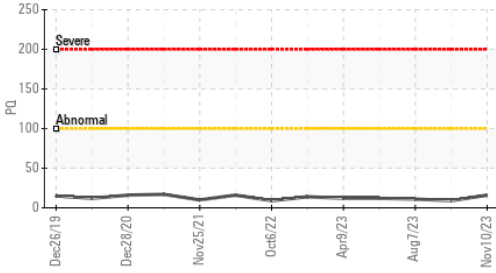


OIL ANALYSIS REPORT

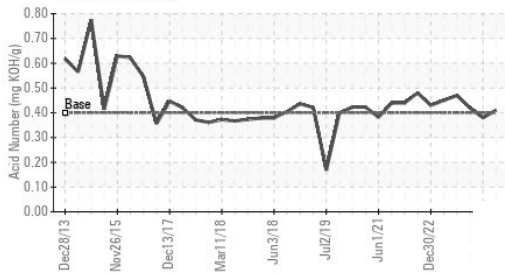
▲ Particle Trend



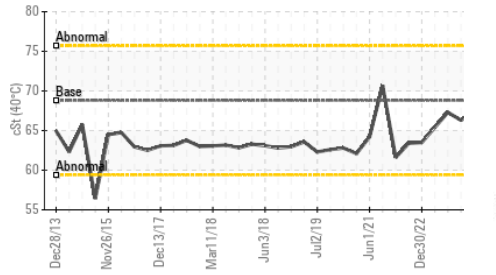
PQ



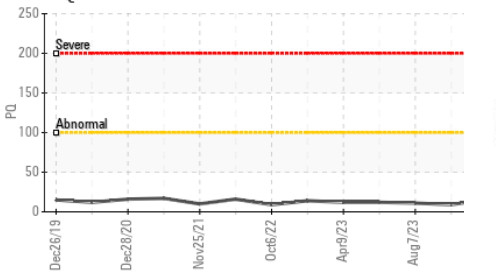
Acid Number



Viscosity @ 40°C



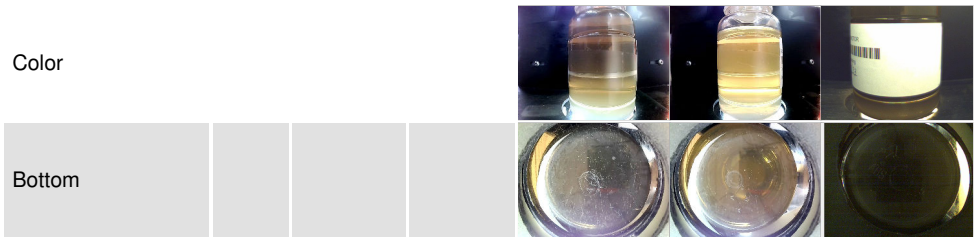
PQ



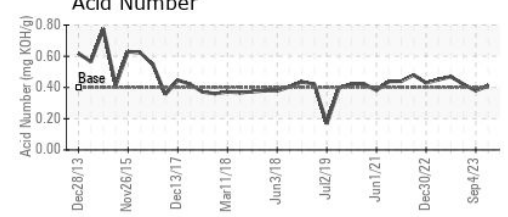
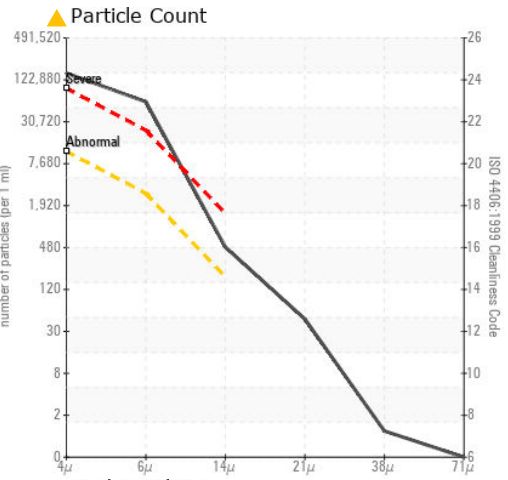
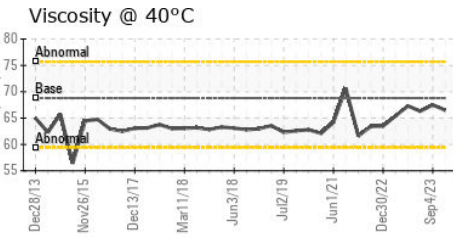
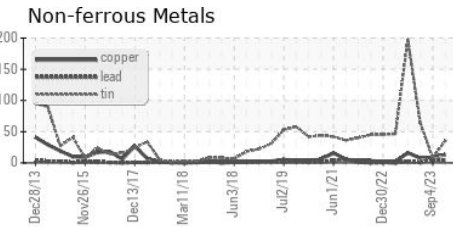
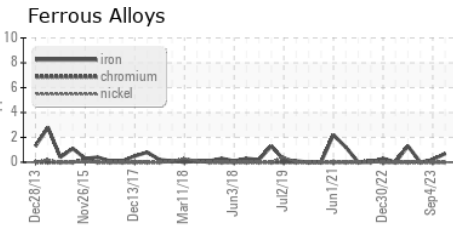
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.8	66.5	67.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0838842 **Received** : 16 Nov 2023
Lab Number : 06009536 **Diagnosed** : 19 Nov 2023
Unique Number : 10743298 **Diagnostician** : Don Baldrige
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: