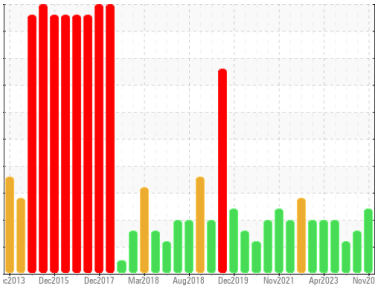
PROBLEM SUMMARY

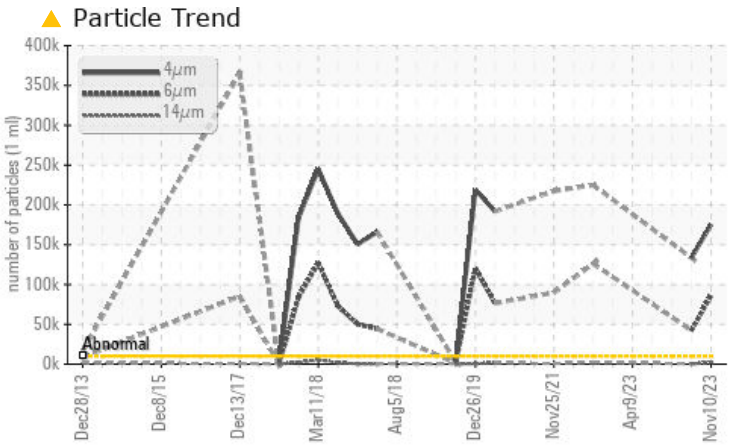
Sample Rating Trend



ISO

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

COMPONENT CONDITION SUMMARY



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	▲ **175253**	▲ 133541	---
Particles >6µm		ASTM D7647	>2500	▲ **86263**	▲ 42318	---
Particles >14µm		ASTM D7647	>160	▲ **2077**	▲ 426	---
Particles >21µm		ASTM D7647	>40	▲ **316**	32	---
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ **25/24/18**	▲ 24/23/16	---
Debris	scalar	*Visual	NONE	▲ **MODER**	LIGHT	NONE

Customer Id: BRIDES
Sample No.: WC0838863
Lab Number: 06009513
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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 Baldridge

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

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07 Aug 2023 Diag: Doug Bogart

VISUAL METAL

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. 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 suitable for further service.

view report

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05 Jul 2023 Diag: Angela Borella

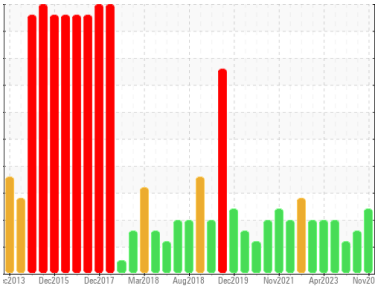
VISUAL METAL

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. Bearing wear is indicated. 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



ISO

Area
412
Machine Id
75 BANBURY MOTOR
Component
Inboard 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. Moderate concentration of visible dirt/debris 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		**WC0838863**	WC0838906	WC0397546
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		**12**	13	11
Iron	ppm	ASTM D5185m	>60	**3**	2	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	**2**	2	<1
Copper	ppm	ASTM D5185m	>125	**19**	14	7
Tin	ppm	ASTM D5185m	>80	**31**	11	76
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	**6**	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	**41**	52	40
Phosphorus	ppm	ASTM D5185m	330	**318**	350	320
Zinc	ppm	ASTM D5185m	420	**383**	425	385
Sulfur	ppm	ASTM D5185m	3100	**3307**	3841	2985

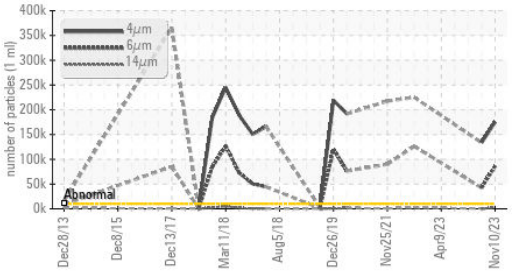
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	3	2
Sodium	ppm	ASTM D5185m		**0**	<1	2
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **175253**	▲ 133541	---
Particles >6µm		ASTM D7647	>2500	▲ **86263**	▲ 42318	---
Particles >14µm		ASTM D7647	>160	▲ **2077**	▲ 426	---
Particles >21µm		ASTM D7647	>40	▲ **316**	32	---
Particles >38µm		ASTM D7647	>10	**6**	0	---
Particles >71µm		ASTM D7647	>3	**1**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ **25/24/18**	▲ 24/23/16	---

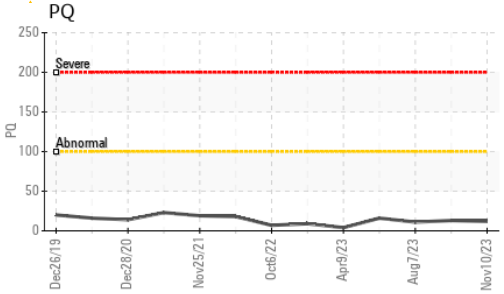
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.40	**0.39**	0.38	0.43

OIL ANALYSIS REPORT

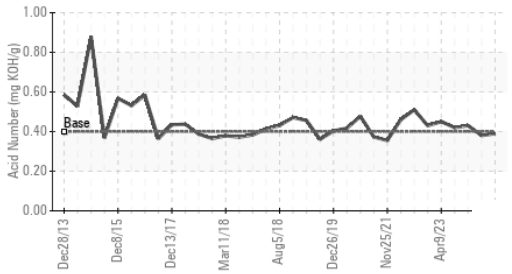
Particle Trend



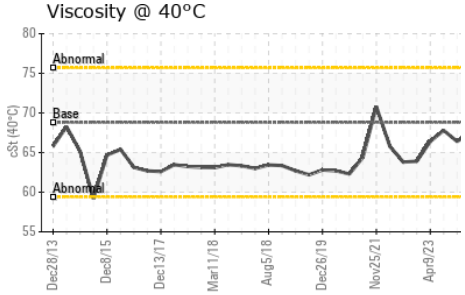
PQ



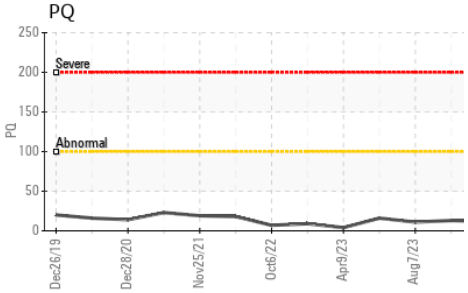
Acid Number



Viscosity @ 40°C



PQ



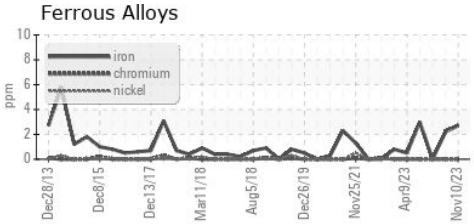
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	LIGHT	NONE
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	68.8	**66.6**	67.6	66.4

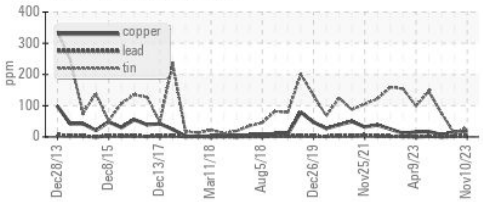
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

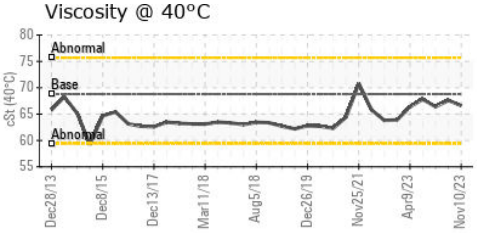
Ferrous Alloys



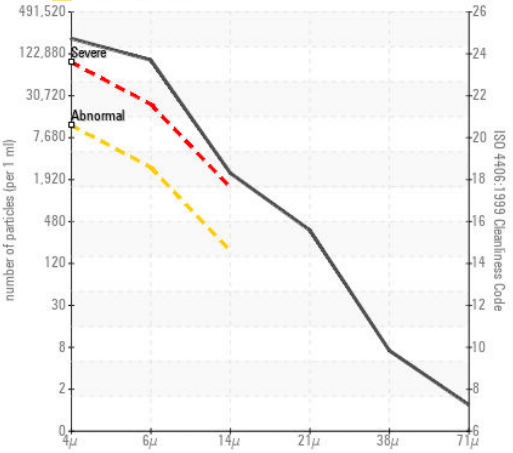
Non-ferrous Metals



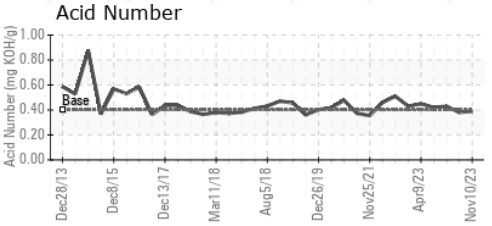
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0838863 **Received** : 16 Nov 2023
Lab Number : 06009513 **Diagnosed** : 19 Nov 2023
Unique Number : 10743275 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

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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