

# **OIL ANALYSIS REPORT**

Sample Rating Trend

## 412 Machine Id 622 BANBURY MOTOR

Component Outboard Journal Bearing Fluid ESSO NUTO H ISO 68 (1 QTS)

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

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

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v2014 Nov2015 Jun2017 Nov2018 Dec2019 Jun2021 Sep2022 May2023 Feb2024	

ISO

SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0479428	WC06087143	WC0838937
Sample Date		Client Info		14 Mar 2024	08 Feb 2024	10 Nov 2023
	nrs	Client Info		0	0	6
Oil Age	nrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		11	16	8
Iron p	opm	ASTM D5185m	>60	0	0	<1
Chromium p	opm	ASTM D5185m	>20	0	0	0
Nickel p	opm	ASTM D5185m	>20	0	0	0
Titanium p	opm	ASTM D5185m		0	0	0
Silver	opm	ASTM D5185m		0	0	0
Aluminum p	opm	ASTM D5185m	>4	0	0	<1
Lead p	opm	ASTM D5185m	>250	<1	<1	<1
Copper p	opm	ASTM D5185m	>125	3	2	5
Tin p	opm	ASTM D5185m	>80	2	2	5
Vanadium p	opm	ASTM D5185m		0	0	0
Cadmium p	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	0	0	0	0
Barium p	opm	ASTM D5185m	0	0	0	6
Molybdenum p	opm	ASTM D5185m	0	0	0	0
Manganese p	opm	ASTM D5185m		<1	<1	0
Magnesium p	opm	ASTM D5185m	5	0	0	<1
Calcium p	opm	ASTM D5185m	50	50	40	49
Phosphorus p	opm	ASTM D5185m	330	335	333	322
Zinc p	opm	ASTM D5185m	420	424	436	405
Sulfur p	opm	ASTM D5185m	3100	3510	3027	3210
CONTAMINANTS		method	limit/base	current	history1	history2
	opm	ASTM D5185m	>50	3	4	3
	opm	ASTM D5185m		<1	<1	0
Potassium p	opm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>A</b> 79202	68361	▲ 96332
Particles >6µm		ASTM D7647	>2500	<u> </u>	<b>1</b> 0867	<u> </u>
Particles >14µm		ASTM D7647	>160	98	<b>2</b> 11	156

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

Particles >21µm

Particles >38µm

Particles >71µm

**Oil Cleanliness** 

38

1

0

▲ 23/21/15

14

1

0

▲ 24/21/14

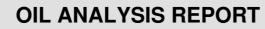
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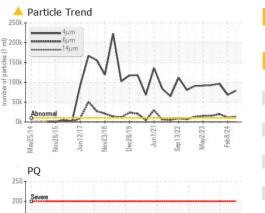
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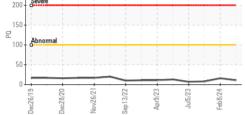
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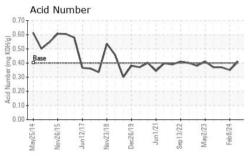
ISO 4406 (c) >20/18/14 **23/21/14** 

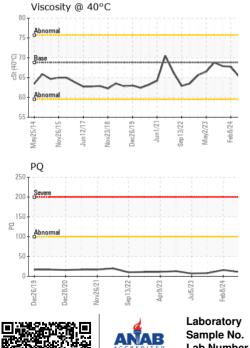










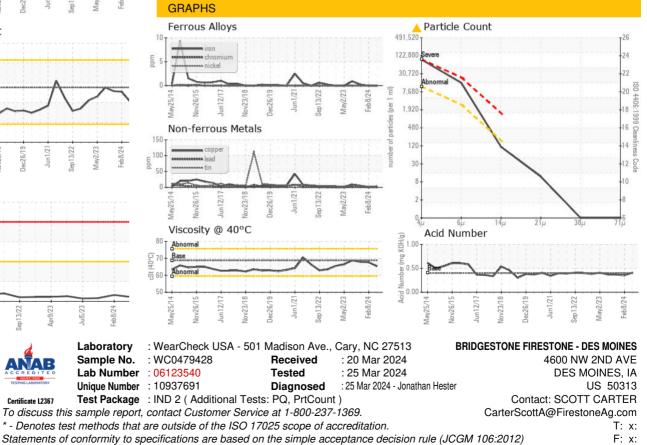


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.40	0.41	0.35	0.37
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.8	65.3	67.7	67.9
SAMPLE IMAGES	;	method	limit/base	current	history1	history2

Color



Bottom



Report Id: BRIDES [WUSCAR] 06123540 (Generated: 03/25/2024 08:33:27) Rev: 1

Certificate L2367

Contact/Location: SCOTT CARTER - BRIDES