

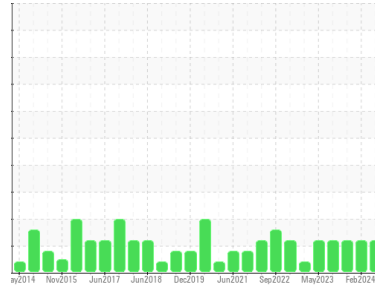


# OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area  
**412**  
 Machine Id  
**622 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 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0479427</b>	WC06087145	WC0838933
Sample Date	Client Info	<b>14 Mar 2024</b>	08 Feb 2024	10 Nov 2023
Machine Age	hrs	<b>0</b>	0	6
Oil Age	hrs	<b>600</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	N/A	Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >2	<b>NEG</b>	NEG	NEG

## WEAR METALS

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

## ADDITIVES

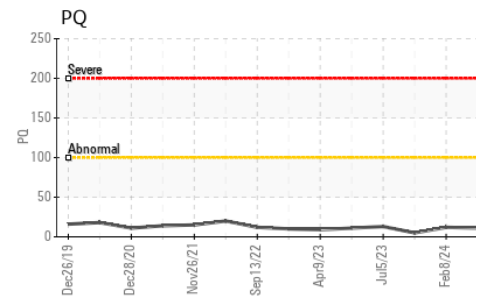
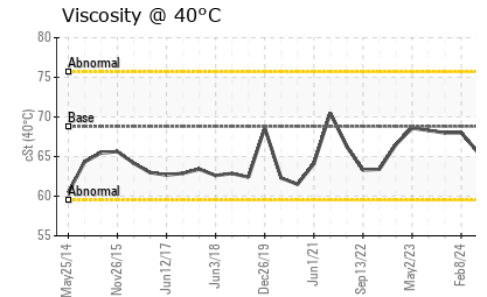
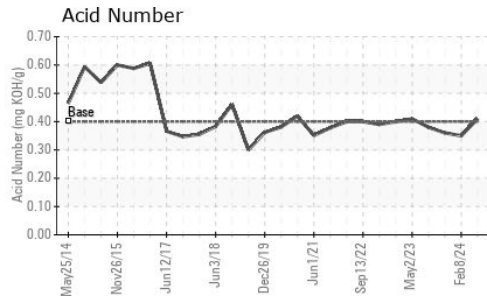
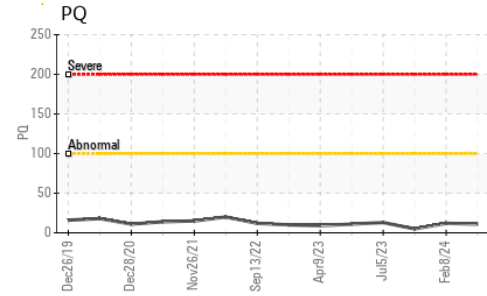
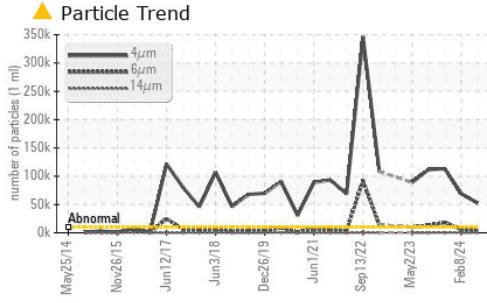
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	6
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm ASTM D5185m 5	<b>&lt;1</b>	0	1
Calcium	ppm ASTM D5185m 50	<b>49</b>	40	48
Phosphorus	ppm ASTM D5185m 330	<b>342</b>	331	322
Zinc	ppm ASTM D5185m 420	<b>414</b>	433	399
Sulfur	ppm ASTM D5185m 3100	<b>3493</b>	3009	3132

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>5</b>	4	3
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	<1	0
Potassium	ppm ASTM D5185m >20	<b>0</b>	0	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 52332</b>	▲ 69046	▲ 113134
Particles >6µm	ASTM D7647 >2500	<b>● 4090</b>	▲ 5841	▲ 18279
Particles >14µm	ASTM D7647 >160	<b>45</b>	55	126
Particles >21µm	ASTM D7647 >40	<b>11</b>	8	29
Particles >38µm	ASTM D7647 >10	<b>1</b>	0	3
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c) >20/18/14	<b>▲ 23/19/13</b>	▲ 23/20/13	▲ 24/21/14

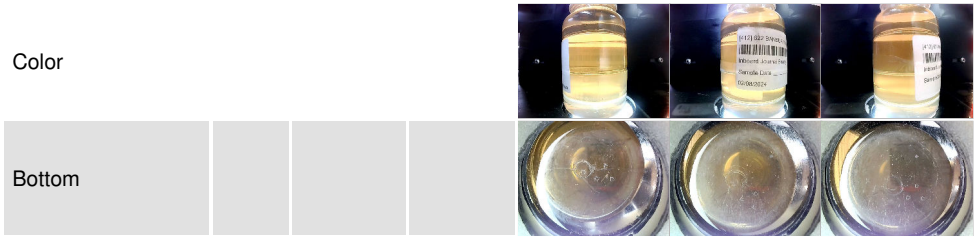


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.40	<b>0.41</b>	0.35	0.36

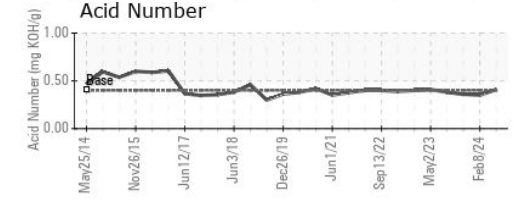
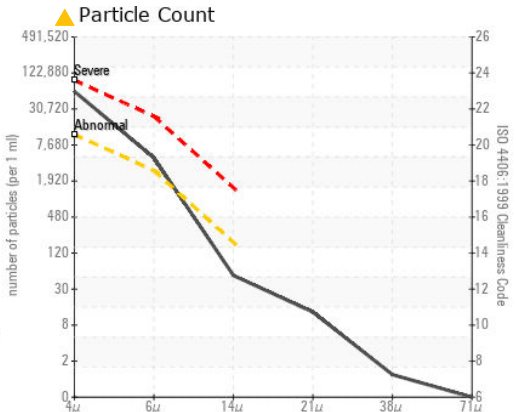
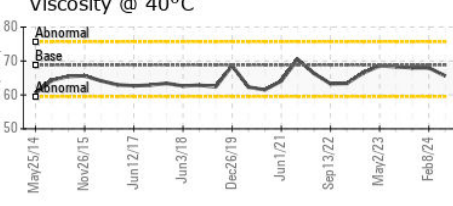
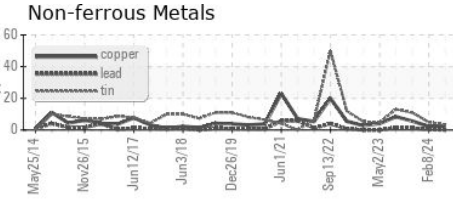
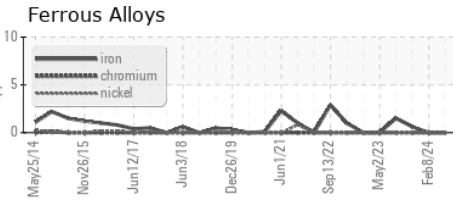
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.8	<b>65.6</b>	68.0	68.0

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0479427 **Received** : 20 Mar 2024  
**Lab Number** : **06123539** **Tested** : 25 Mar 2024  
**Unique Number** : 10937690 **Diagnosed** : 25 Mar 2024 - Jonathan Hester  
**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  
 T: x:  
 F: x:

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)