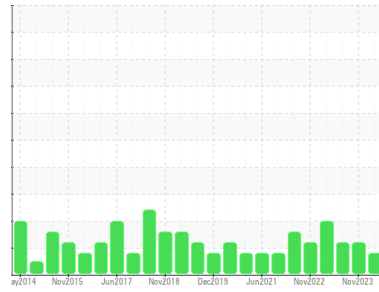




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

412

Machine Id

273 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. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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			WC0838925	WC0838935	WC0640598
Sample Date	Client Info			28 Mar 2024	10 Nov 2023	05 Jul 2023
Machine Age	hrs	Client Info		0	6	6
Oil Age	hrs	Client Info		720	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ATTENTION	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		15	11	14
Iron	ppm	ASTM D5185m	>60	<1	0	<1
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	2	<1	<1
Lead	ppm	ASTM D5185m	>250	0	0	<1
Copper	ppm	ASTM D5185m	>125	<1	<1	5
Tin	ppm	ASTM D5185m	>80	2	4	4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

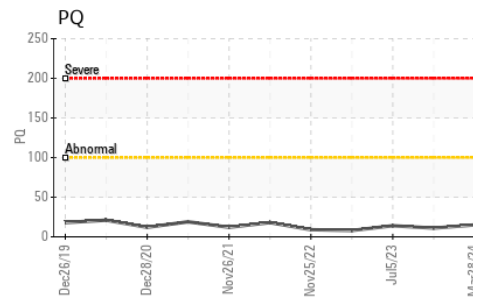
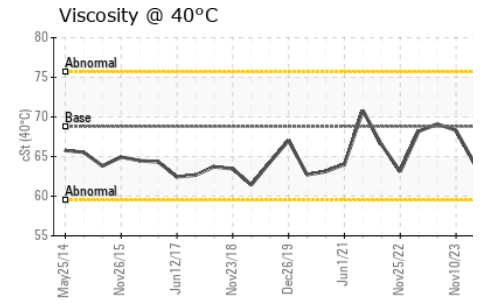
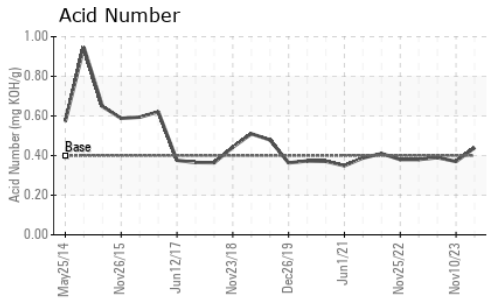
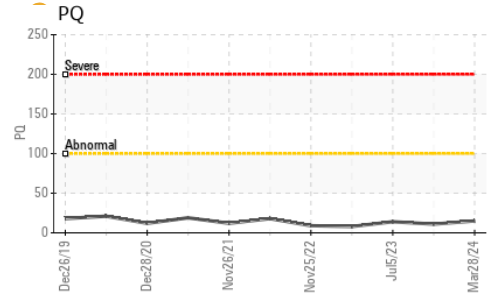
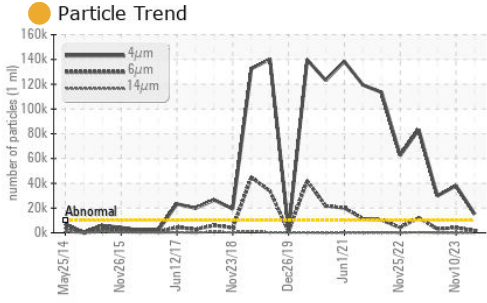
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	7	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	5	<1	0
Calcium	ppm	ASTM D5185m	50	57	48	39
Phosphorus	ppm	ASTM D5185m	330	321	321	332
Zinc	ppm	ASTM D5185m	420	419	402	416
Sulfur	ppm	ASTM D5185m	3100	6130	3246	3087

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	4	12
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	15112	38069	29841
Particles >6µm		ASTM D7647	>2500	1769	4127	3129
Particles >14µm		ASTM D7647	>160	40	80	116
Particles >21µm		ASTM D7647	>40	10	15	27
Particles >38µm		ASTM D7647	>10	0	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	21/18/12	22/19/13	22/19/14



OIL ANALYSIS REPORT

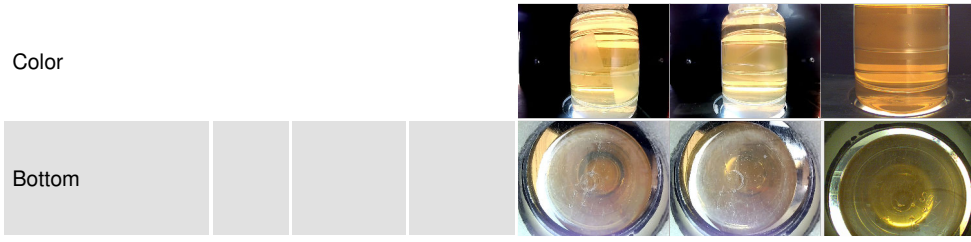


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.40	0.44	0.37	0.39

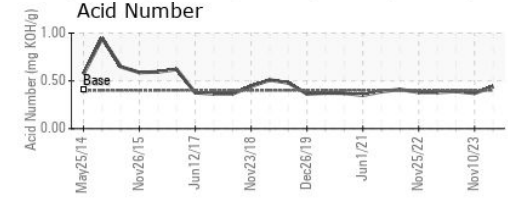
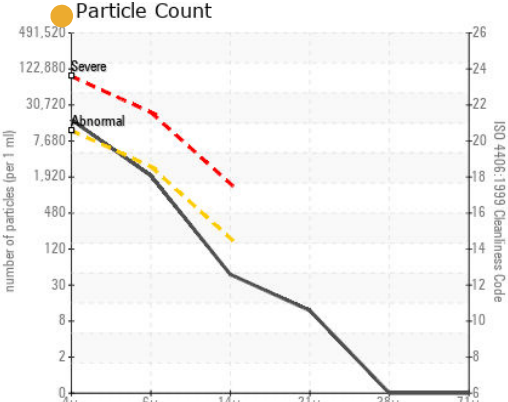
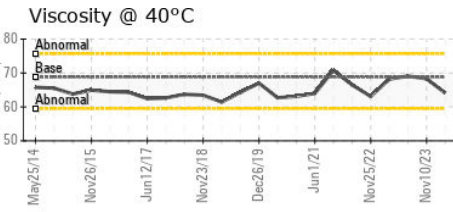
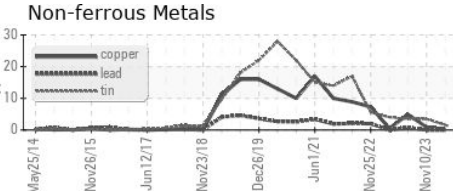
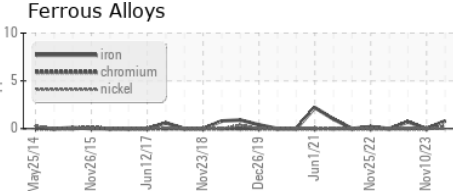
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.8	64.1	68.3	69.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0838925 **Received** : 04 Apr 2024
Lab Number : **06138432** **Tested** : 09 Apr 2024
Unique Number : 10963240 **Diagnosed** : 09 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

BRIDGESTONE FIRESTONE - DES MOINES
 4600 NW 2ND AVE
 DES MOINES, IA 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)