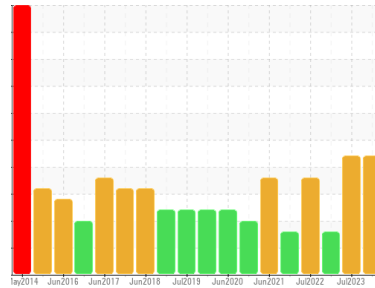




PROBLEM SUMMARY

Area
412
 Machine Id
621 AIRVAYOR
 Component
Inboard Bearing
 Fluid
MOBIL SHC 630 (10 GAL)

Sample Rating Trend

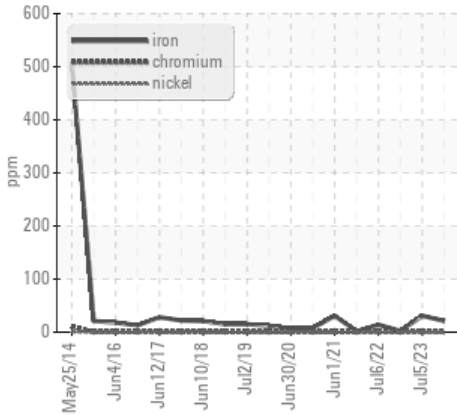


DIRT

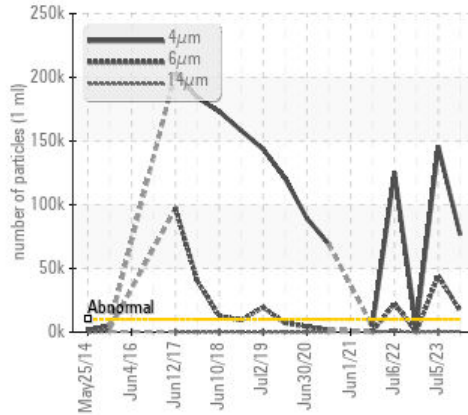


COMPONENT CONDITION SUMMARY

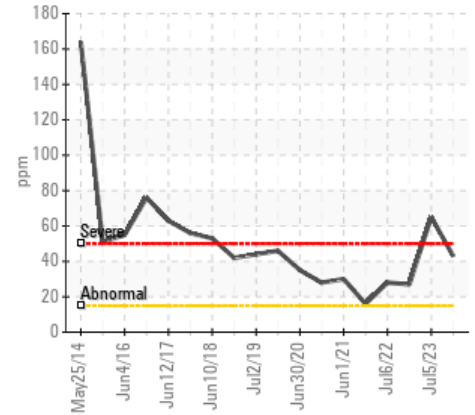
▲ Ferrous Alloys



▲ Particle Trend



▲ Silicon (ppm)



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
Iron	ppm	ASTM D5185m	>20	▲ 21	▲ 31	2
Silicon	ppm	ASTM D5185m	>15	▲ 43	▲ 65	▲ 27
Particles >4µm		ASTM D7647	>10000	▲ 76519	▲ 145635	3602
Particles >6µm		ASTM D7647	>2500	▲ 16561	▲ 44212	534
Particles >14µm		ASTM D7647	>160	▲ 561	▲ 446	12
Particles >21µm		ASTM D7647	>40	▲ 99	▲ 61	2
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ 23/21/16	▲ 24/23/16	19/16/11

Customer Id: BRIDES
 Sample No.: WC0838896
 Lab Number: 06009532
 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

05 Jul 2023 Diag: Angela Borella

DIRT



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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



30 Dec 2022 Diag: Angela Borella

DIRT



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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



06 Jul 2022 Diag: Doug Bogart

DIRT



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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

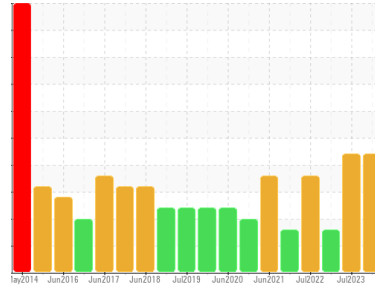
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Area
412
 Machine Id
621 AIRVAYOR
 Component
Inboard Bearing
 Fluid
MOBIL SHC 630 (10 GAL)

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**
The iron level has decreased, but is still abnormal. All other component wear rates are normal.
- Contamination**
There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.
- 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		WC0838896	WC0640612	WC0640581
Sample Date	Client Info		10 Nov 2023	05 Jul 2023	30 Dec 2022
Machine Age	mths	Client Info	6	6	6
Oil Age	mths	Client Info	0	6	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	24	13
Iron	ppm	ASTM D5185m >20	▲ 21	▲ 31	2
Chromium	ppm	ASTM D5185m >20	<1	<1	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	<1	<1	0
Lead	ppm	ASTM D5185m >20	0	0	<1
Copper	ppm	ASTM D5185m >20	<1	<1	<1
Tin	ppm	ASTM D5185m >20	0	0	4
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	7	0	1
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	<1	0	<1
Calcium	ppm	ASTM D5185m	1	0	1
Phosphorus	ppm	ASTM D5185m	444	472	466
Zinc	ppm	ASTM D5185m	0	1	6
Sulfur	ppm	ASTM D5185m	0	40	15

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 43	▲ 65	▲ 27
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	<1	1	<1

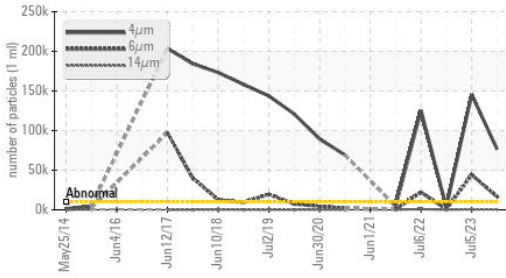
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 76519	▲ 145635	3602
Particles >6µm	ASTM D7647	>2500	▲ 16561	▲ 44212	534
Particles >14µm	ASTM D7647	>160	▲ 561	▲ 446	12
Particles >21µm	ASTM D7647	>40	▲ 99	▲ 61	2
Particles >38µm	ASTM D7647	>10	5	2	1
Particles >71µm	ASTM D7647	>3	3	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 23/21/16	▲ 24/23/16	19/16/11

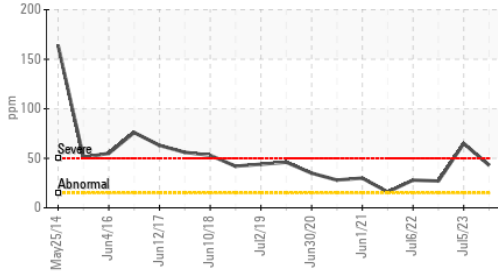
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	0.54	0.58

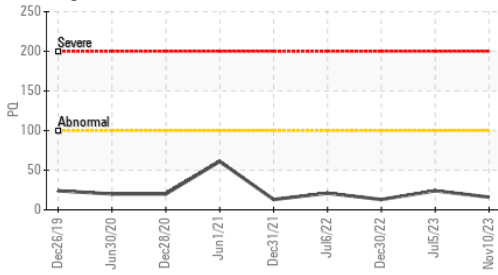
▲ Particle Trend



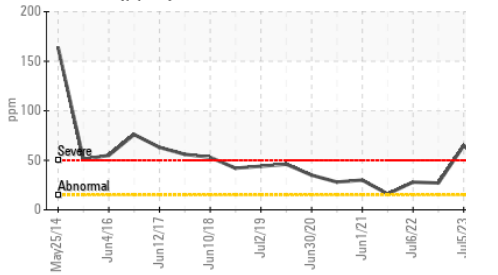
▲ Silicon (ppm)



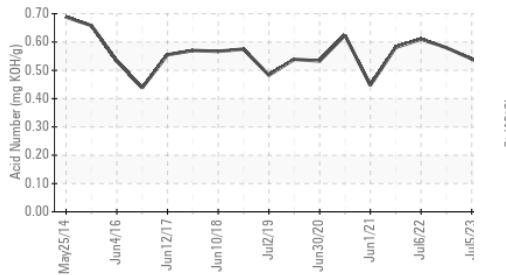
▲ PQ



▲ Silicon (ppm)



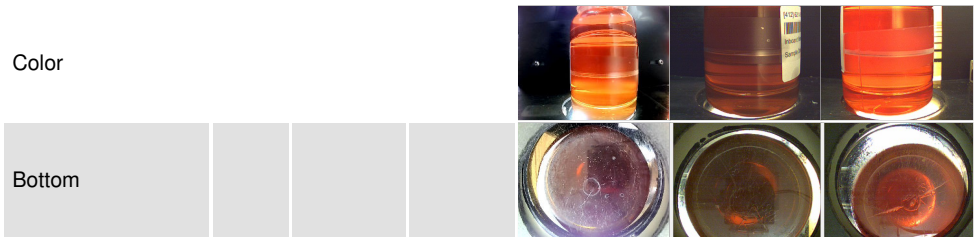
▲ Acid Number



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	NONE	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

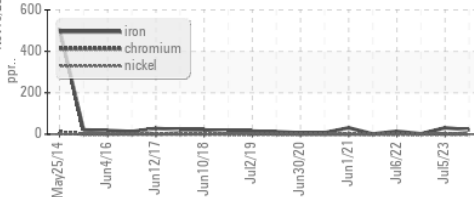
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	217.7	216	211

SAMPLE IMAGES	method	limit/base	current	history1	history2
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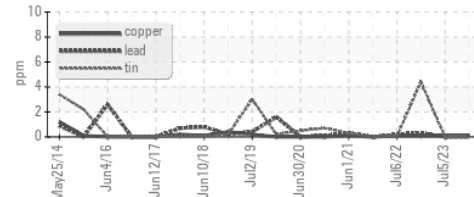


GRAPHS

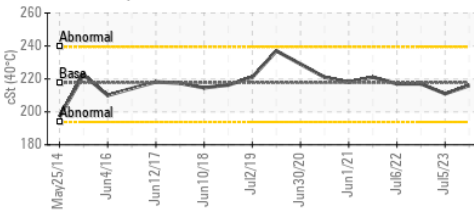
▲ Ferrous Alloys



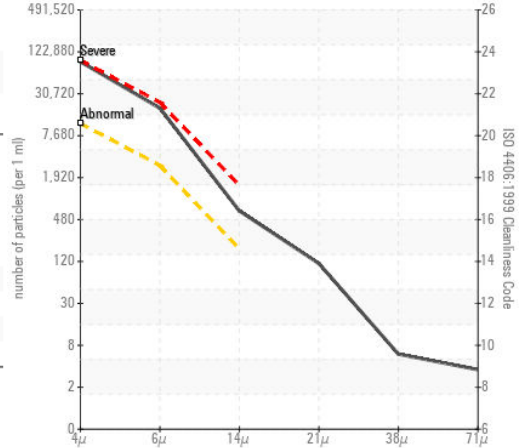
Non-ferrous Metals



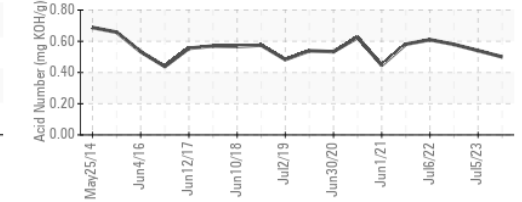
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0838896
 Lab Number : 06009532
 Unique Number : 10743294
 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