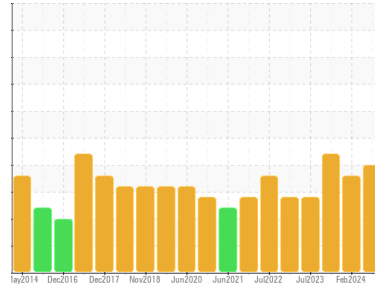




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



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

DIAGNOSIS

Recommendation

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

Wear

The iron level is 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	WC0479429	WC06087142	WC0838894
Sample Date	Client Info	14 Mar 2024	08 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info	0	6
Oil Age	hrs	Client Info	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	27	18	24	
Iron	ppm	ASTM D5185m >20	▲ 21	9	▲ 22
Chromium	ppm	ASTM D5185m >20	0	0	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	0	<1	<1
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >20	0	<1	<1
Tin	ppm	ASTM D5185m >20	<1	<1	0
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	0	0	7
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	<1
Calcium	ppm	ASTM D5185m	4	0	<1
Phosphorus	ppm	ASTM D5185m	477	446	424
Zinc	ppm	ASTM D5185m	0	0	0
Sulfur	ppm	ASTM D5185m	16	0	0

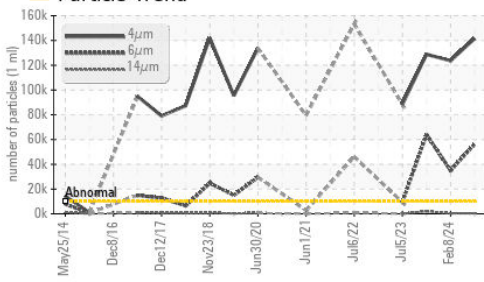
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	▲ 34	▲ 43	▲ 44
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	0	0	<1

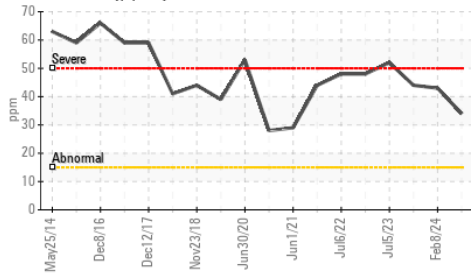
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 141599	▲ 123614	▲ 128813
Particles >6µm	ASTM D7647 >2500	▲ 56187	▲ 35050	▲ 63872
Particles >14µm	ASTM D7647 >160	▲ 368	▲ 410	▲ 1976
Particles >21µm	ASTM D7647 >40	38	▲ 66	▲ 221
Particles >38µm	ASTM D7647 >10	0	2	5
Particles >71µm	ASTM D7647 >3	0	0	3
Oil Cleanliness	ISO 4406 (c) >20/18/14	▲ 24/23/16	▲ 24/22/16	▲ 24/23/18

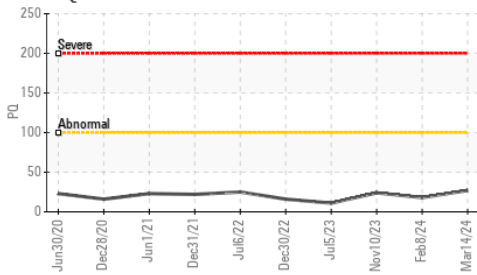
Particle Trend



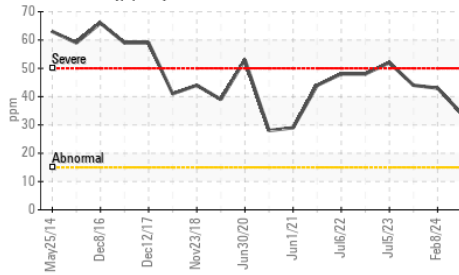
Silicon (ppm)



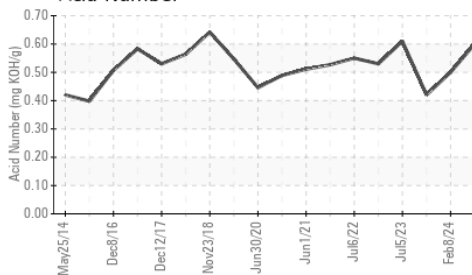
PQ



Silicon (ppm)



Acid Number



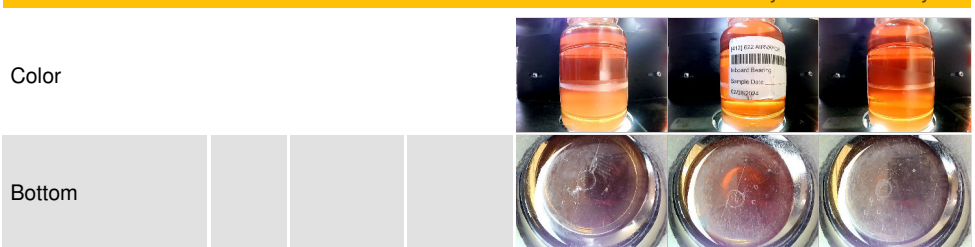
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.60	0.50	0.42
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	LIGHT	NONE
Sand/Dirt scalar	*Visual	NONE	NONE	NONE
Appearance scalar	*Visual	NORML	NORML	NORML
Odor scalar	*Visual	NORML	NORML	NORML
Emulsified Water scalar	*Visual	NEG	NEG	NEG
Free Water scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES

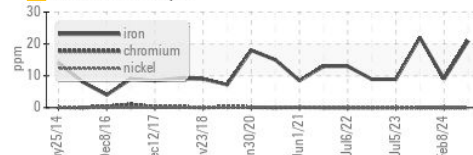
method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445	215	215	220

SAMPLE IMAGES

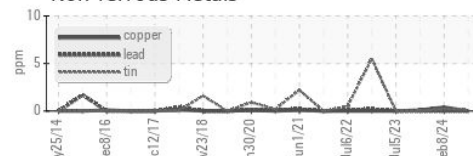


GRAPHS

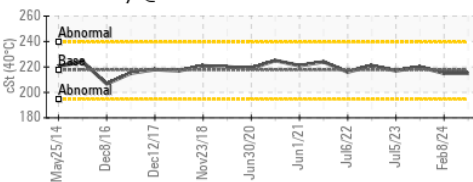
Ferrous Alloys



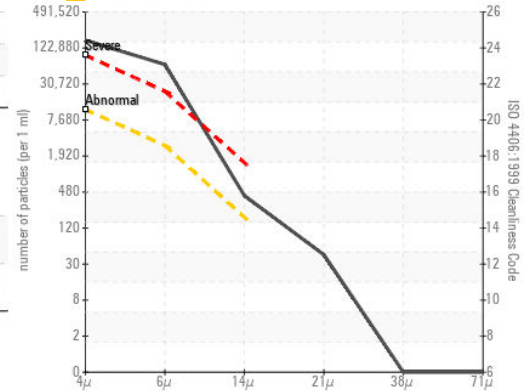
Non-ferrous Metals



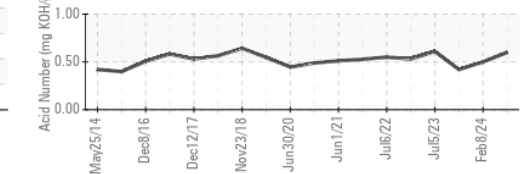
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0479429

Lab Number : **06123538**

Unique Number : 10937689

Test Package : IND 2 (Additional Tests: PQ, PrtCount)

Received : 20 Mar 2024

Tested : 25 Mar 2024

Diagnosed : 25 Mar 2024 - Jonathan Hester

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)