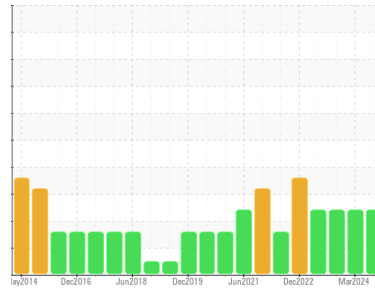




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



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

DIAGNOSIS

Recommendation

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. 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		WC0912140	WC0912149	WC0838897
Sample Date	Client Info		05 Jun 2024	07 Mar 2024	10 Nov 2023
Machine Age	hrs	Client Info	0	0	6
Oil Age	hrs	Client Info	0	2160	0
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	ATTENTION	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		17	19	14
Iron	ppm	ASTM D5185m >20	2	2	2
Chromium	ppm	ASTM D5185m >20	<1	<1	0
Nickel	ppm	ASTM D5185m >20	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	2	0	<1
Lead	ppm	ASTM D5185m >20	<1	<1	0
Copper	ppm	ASTM D5185m >20	<1	<1	0
Tin	ppm	ASTM D5185m >20	<1	<1	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	<1	0	7
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	<1	0	<1
Calcium	ppm	ASTM D5185m	0	101	1
Phosphorus	ppm	ASTM D5185m	432	539	450
Zinc	ppm	ASTM D5185m	2	12	0
Sulfur	ppm	ASTM D5185m	0	133	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 32	▲ 27	▲ 42
Sodium	ppm	ASTM D5185m	0	<1	0
Potassium	ppm	ASTM D5185m >20	<1	0	<1

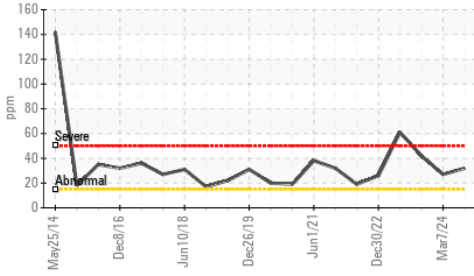
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	● 15134	● 13540	● 13544
Particles >6µm	ASTM D7647	>2500	1520	1110	1482
Particles >14µm	ASTM D7647	>160	31	14	22
Particles >21µm	ASTM D7647	>40	7	2	6
Particles >38µm	ASTM D7647	>10	1	0	3
Particles >71µm	ASTM D7647	>3	1	0	3
Oil Cleanliness	ISO 4406 (c)	>20/18/14	● 21/18/12	● 21/17/11	● 21/18/12

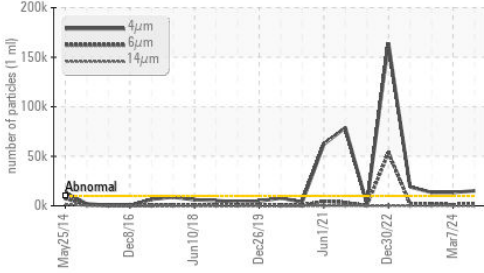


OIL ANALYSIS REPORT

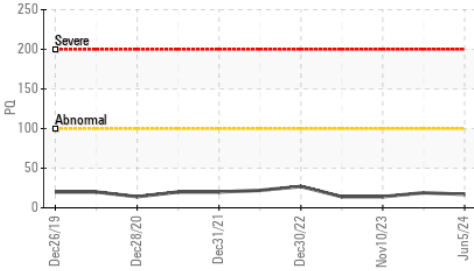
▲ Silicon (ppm)



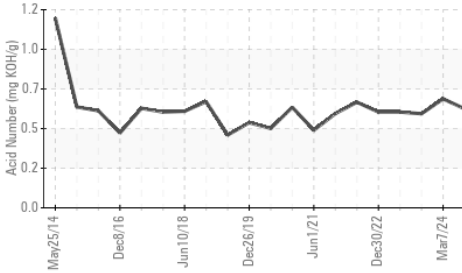
● Particle Trend



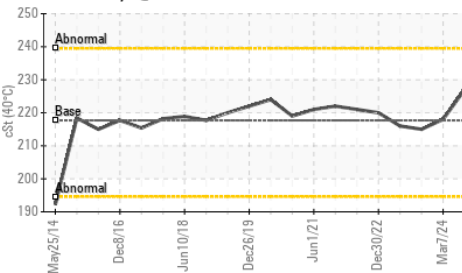
▲ PQ



Acid Number



Viscosity @ 40°C



FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN) mg KOH/g ASTM D8045 **0.60** 0.66 0.57

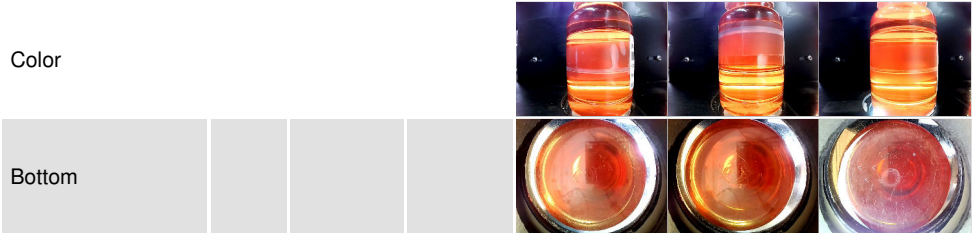
VISUAL method limit/base current history1 history2

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

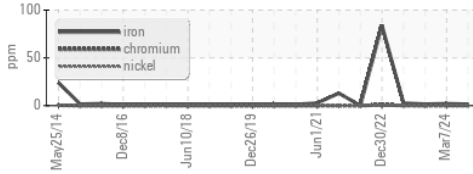
Visc @ 40°C cSt ASTM D445 217.7 **227** 218 215

SAMPLE IMAGES method limit/base current history1 history2

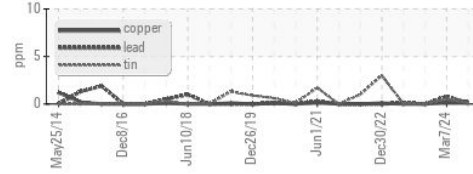


GRAPHS

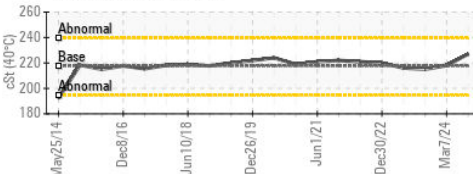
Ferrous Alloys



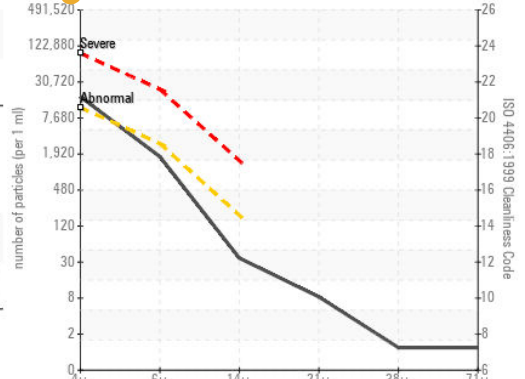
Non-ferrous Metals



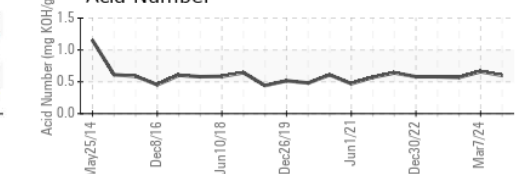
Viscosity @ 40°C



● Particle Count



Acid Number



Certificate L2367

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

Sample No. : WC0912140

Lab Number : **06201392**

Unique Number : 11063515

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

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)

BRIDGESTONE FIRESTONE - DES MOINES

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DES MOINES, IA

US 50313

Contact: SCOTT CARTER

CarterScottA@FirestoneAg.com

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