



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

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

## RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC06087142</b>	WC0838894	WC0640614
Sample Date		Client Info		<b>08 Feb 2024</b>	10 Nov 2023	05 Jul 2023
Machine Age	mths	Client Info		<b>0</b>	6	6
Oil Age	mths	Client Info		<b>0</b>	0	0
Filter Age	mths	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>18</b>	24	11
Iron	ppm	ASTM D5185m	>20	<b>9</b>	▲ 22	9
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	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

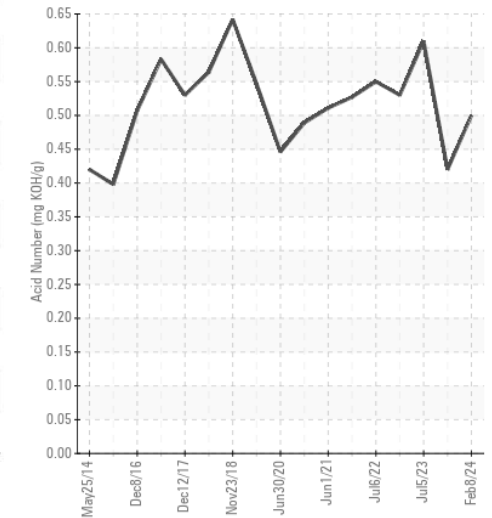
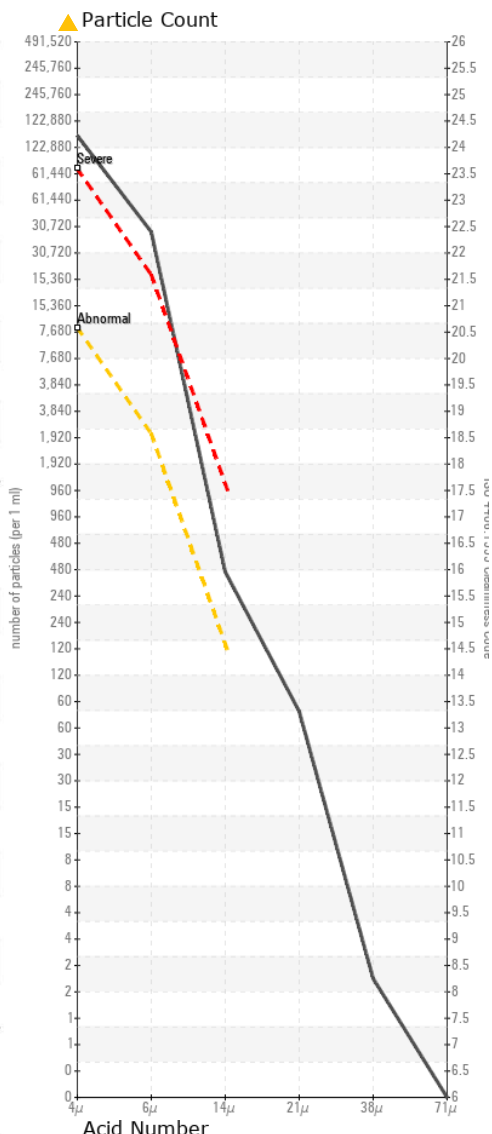
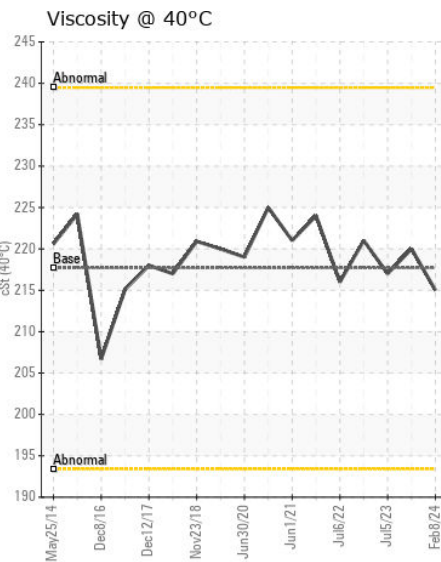
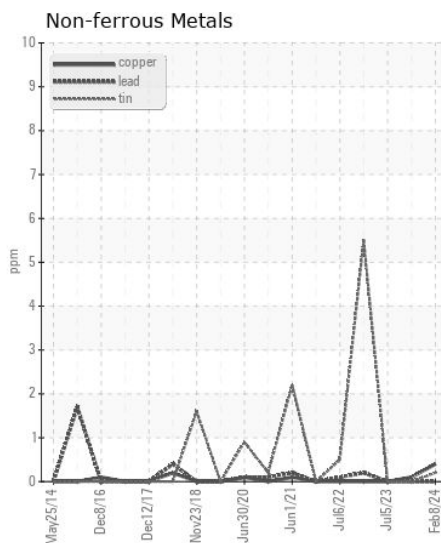
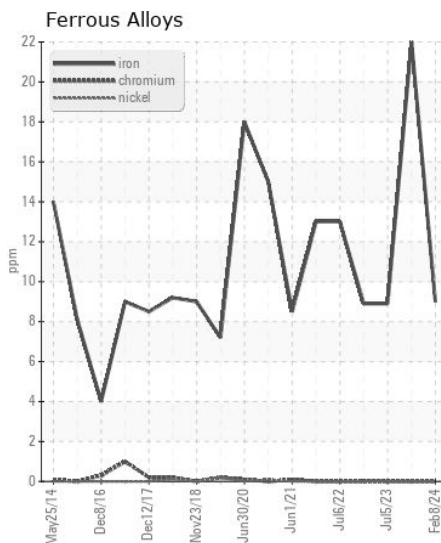
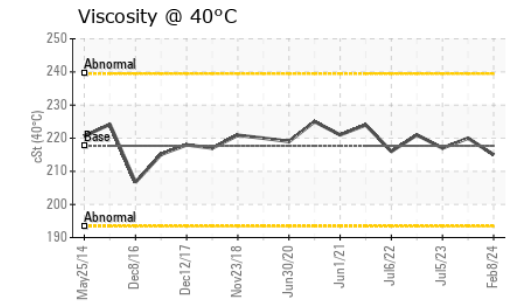
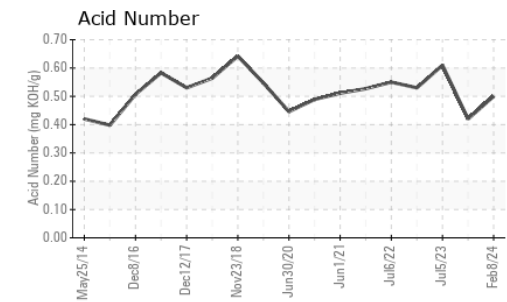
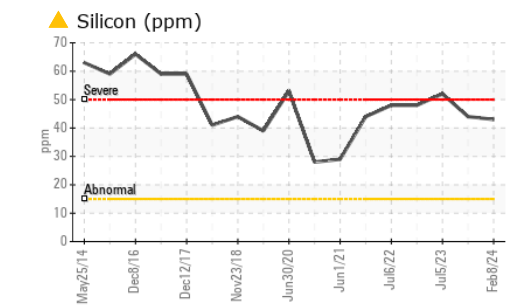
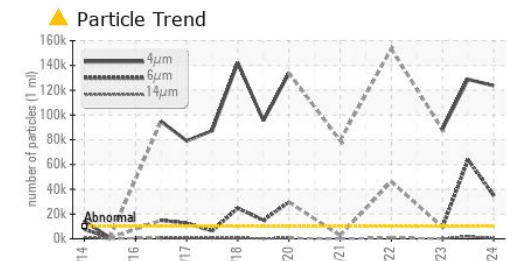
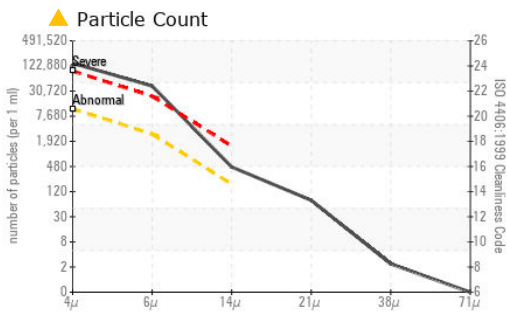
There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>15	▲ <b>43</b>	▲ 44	▲ 52
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Water		WC Method	>2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	▲ <b>123614</b>	▲ 128813	▲ 88310
Particles >6µm		ASTM D7647	>2500	▲ <b>35050</b>	▲ 63872	▲ 9324
Particles >14µm		ASTM D7647	>160	▲ <b>410</b>	▲ 1976	80
Particles >21µm		ASTM D7647	>40	▲ <b>66</b>	▲ 221	12
Particles >38µm		ASTM D7647	>10	<b>2</b>	5	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	3	1
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ <b>24/22/16</b>	▲ 24/23/18	▲ 24/20/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	7	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m		<b>446</b>	424	474
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>0</b>	0	0
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.50</b>	0.42	0.61
Visc @ 40°C	cSt	ASTM D445	217.7	<b>215</b>	220	217



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06087142 **Received** : 13 Feb 2024  
**Lab Number** : 06087142 **Tested** : 14 Feb 2024  
**Unique Number** : 10874587 **Diagnosed** : 14 Feb 2024 - Don Baldrige  
**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: