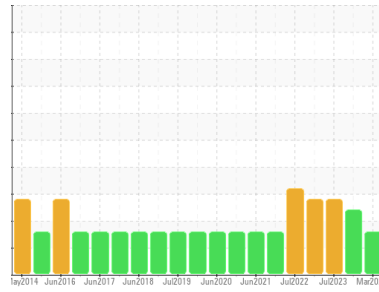




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**412**  
 Machine Id  
**273 AIRVAYOR**  
 Component  
**Outboard 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**  
 All component wear rates are normal.

**Contamination**  
 Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

**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		<b>WC0838923</b>	WC0838893	WC0640611
Sample Date	Client Info		<b>28 Mar 2024</b>	10 Nov 2023	05 Jul 2023
Machine Age	hrs	Client Info	<b>0</b>	6	6
Oil Age	hrs	Client Info	<b>720</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>16</b>	16	14
Iron	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	2
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</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>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	6	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>5</b>	1	0
Phosphorus	ppm	ASTM D5185m	<b>421</b>	448	470
Zinc	ppm	ASTM D5185m	<b>8</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>47</b>	0	0

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>▲ 26</b>	▲ 34	▲ 35
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>1</b>	<1	1

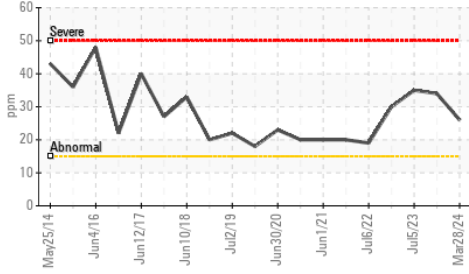
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>8338</b>	● 19496	▲ 32102
Particles >6µm	ASTM D7647	>2500	<b>507</b>	1918	● 2525
Particles >14µm	ASTM D7647	>160	<b>11</b>	30	24
Particles >21µm	ASTM D7647	>40	<b>2</b>	6	6
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	2
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	2
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>20/16/11</b>	● 21/18/12	▲ 22/19/12

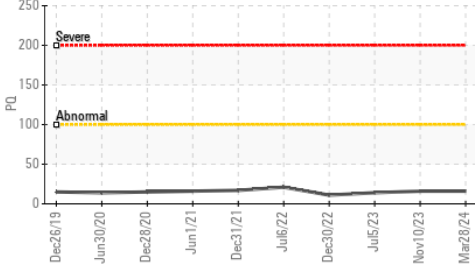


# OIL ANALYSIS REPORT

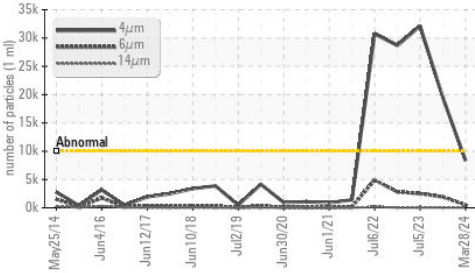
▲ Silicon (ppm)



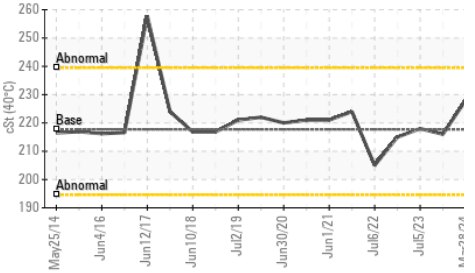
PQ



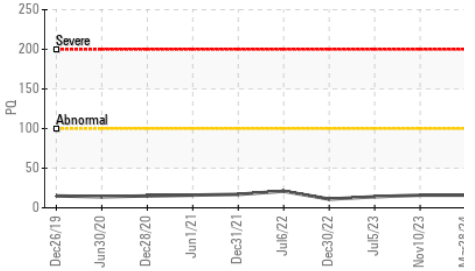
Particle Trend



Viscosity @ 40°C



PQ



## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	<b>0.67</b>	0.57	0.64

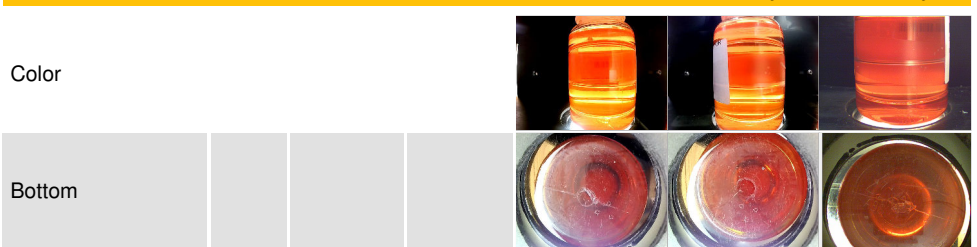
## VISUAL

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	NEG

## FLUID PROPERTIES

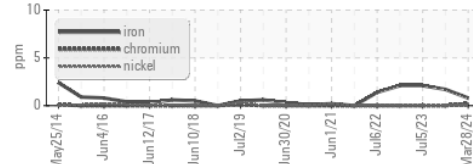
method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445 217.7	<b>228</b>	216	218

## SAMPLE IMAGES

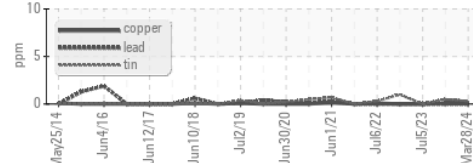


## GRAPHS

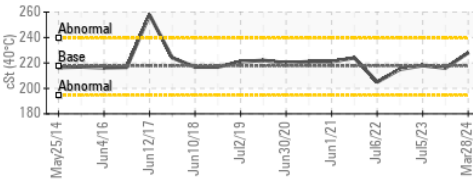
Ferrous Alloys



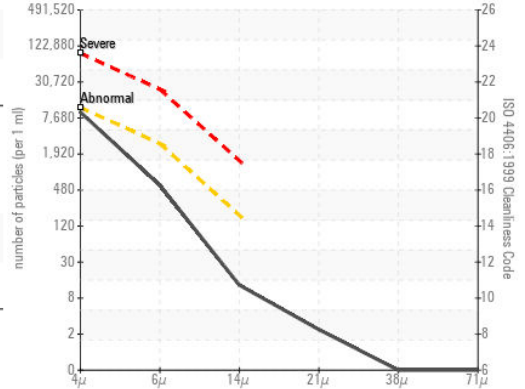
Non-ferrous Metals



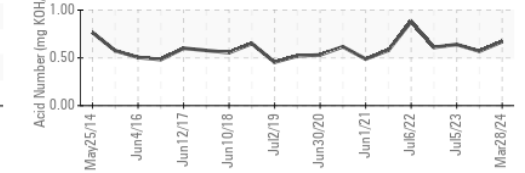
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

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

Sample No. : WC0838923

Lab Number : 06138433

Unique Number : 10963241

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)

Received : 04 Apr 2024

Tested : 09 Apr 2024

Diagnosed : 09 Apr 2024 - Angela Borella

BRIDGESTONE FIRESTONE - DES MOINES

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DES MOINES, IA

US 50313

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