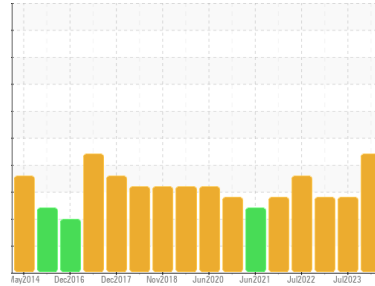




PROBLEM SUMMARY

Sample Rating Trend



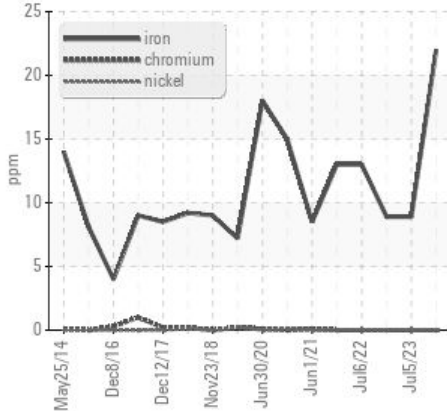
DIRT



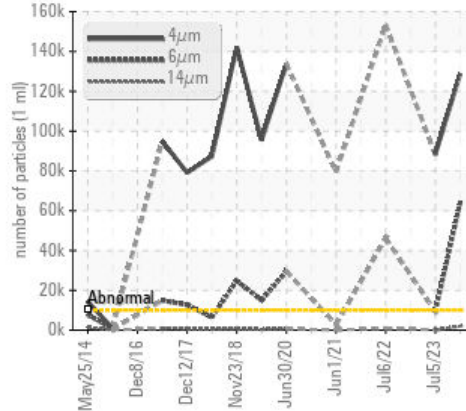
Area
412
Machine Id
622 AIRVAYOR
Component
Inboard Bearing
Fluid
MOBIL SHC 630 (10 GAL)

COMPONENT CONDITION SUMMARY

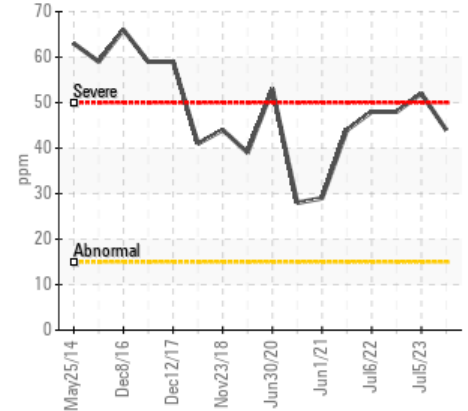
▲ Ferrous Alloys



▲ 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 | ▲ 22 | 9 | 9 |
| Silicon | ppm | ASTM D5185m | >15 | ▲ 44 | ▲ 52 | ▲ 48 |
| Particles >4µm | | ASTM D7647 | >10000 | ▲ 128813 | ▲ 88310 | --- |
| Particles >6µm | | ASTM D7647 | >2500 | ▲ 63872 | ▲ 9324 | --- |
| Particles >14µm | | ASTM D7647 | >160 | ▲ 1976 | 80 | --- |
| Particles >21µm | | ASTM D7647 | >40 | ▲ 221 | 12 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/14 | ▲ 24/23/18 | ▲ 24/20/13 | --- |

Customer Id: BRIDES
Sample No.: WC0838894
Lab Number: 06009533
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



The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. 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 acceptable for the time in 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.

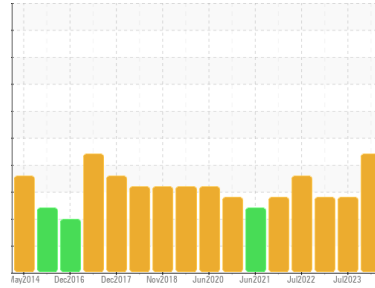
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Area
412
 Machine Id
622 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 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 | | WC0838894 | WC0640614 | WC0640558 |
| 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 | 0 | 0 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|------------|-----------------|--------------|----------|----------|
| PQ | ASTM D8184 | | 24 | 11 | 16 |
| Iron | ppm | ASTM D5185m >20 | ▲ 22 | 9 | 9 |
| 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 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m >20 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m >20 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185m >20 | 0 | 0 | 6 |
| 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 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | <1 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | 424 | 474 | 455 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 4 |
| Sulfur | ppm | ASTM D5185m | 0 | 0 | 1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | ▲ 44 | ▲ 52 | ▲ 48 |
| 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 | ▲ 128813 | ▲ 88310 | --- |
| Particles >6µm | ASTM D7647 | >2500 | ▲ 63872 | ▲ 9324 | --- |
| Particles >14µm | ASTM D7647 | >160 | ▲ 1976 | 80 | --- |
| Particles >21µm | ASTM D7647 | >40 | ▲ 221 | 12 | --- |
| Particles >38µm | ASTM D7647 | >10 | 5 | 1 | --- |
| Particles >71µm | ASTM D7647 | >3 | 3 | 1 | --- |
| Oil Cleanliness | ISO 4406 (c) | >20/18/14 | ▲ 24/23/18 | ▲ 24/20/13 | --- |

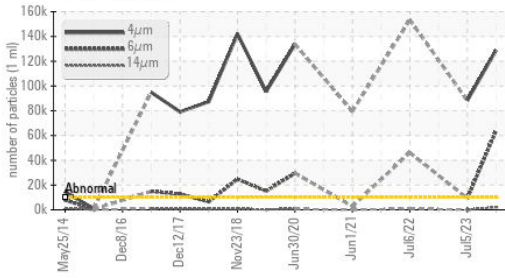
FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.42 | 0.61 | 0.53 |

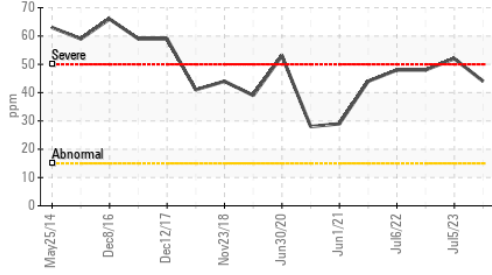


OIL ANALYSIS REPORT

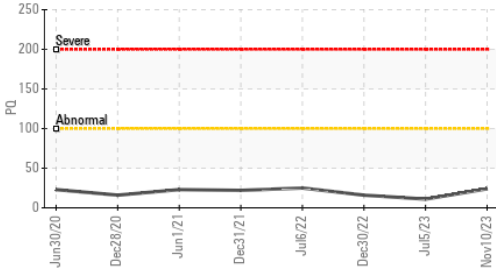
▲ Particle Trend



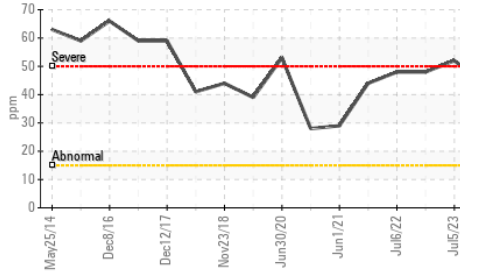
▲ Silicon (ppm)



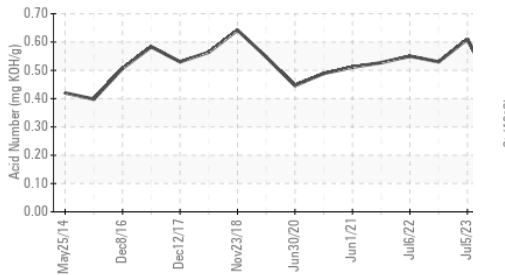
▲ PQ



▲ Silicon (ppm)



Acid Number

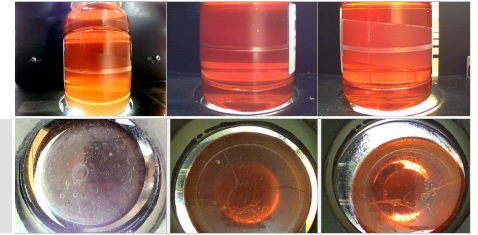


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | ▲ MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | VLITE |
| 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 | 220 | 217 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

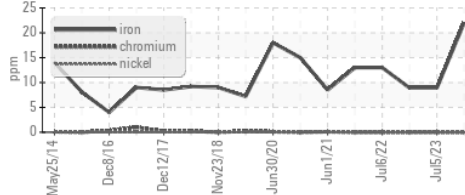
Color



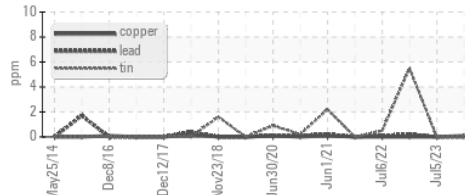
Bottom

GRAPHS

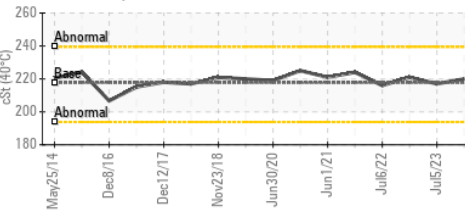
▲ Ferrous Alloys



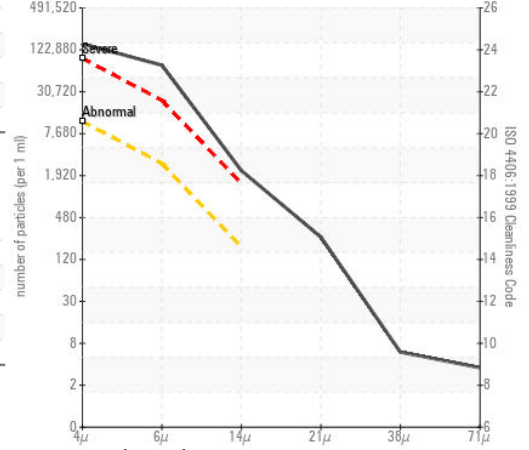
Non-ferrous Metals



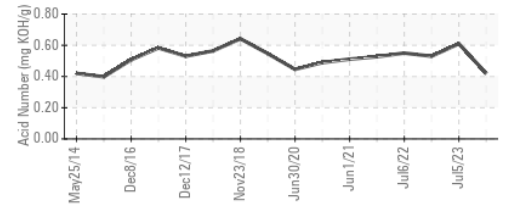
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0838894
 Lab Number : 06009533
 Unique Number : 10743295
 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: