

PROBLEM SUMMARY

Area Milliken Machine Id INGERSOLL RAND EE4347U19082 - MILLIKEN Component

Compressor

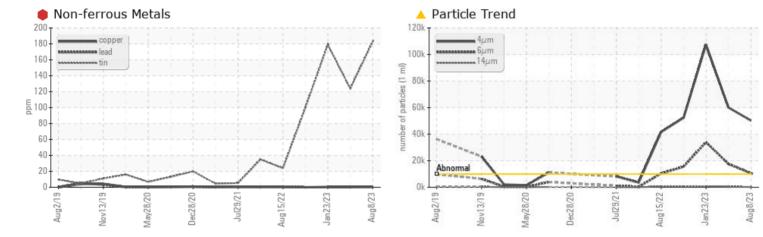
INGERSOLL-RAND SSR ULTRA COOLANT (--- GAL)

COMPONENT CONDITION SUMMARY



WEAR

Sample Rating Trend



RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS | | | | | | | | |
|--------------------------|-----|--------------|-----------|-------------------|---------------|----------------|--|--|
| Sample Status | | | | SEVERE | SEVERE | SEVERE | | |
| Tin | ppm | ASTM D5185m | >15 | 🛑 183 | 124 | • 179 | | |
| Particles >4µm | | ASTM D7647 | >10000 | 6 50248 | ▲ 60017 | 🔺 107455 | | |
| Particles >6µm | | ASTM D7647 | >2500 | <u> </u> | 1 7534 | A 33912 | | |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | A 23/21/15 | 🔺 23/21/16 | 🔺 24/22/17 | | |

Customer Id: AIRALLPA Sample No.: APCI2320835 Lab Number: 05922854 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

| RECOMMENDED ACTIONS | | | | | | |
|----------------------|--------|------|---------|--|--|--|
| Action | Status | Date | Done By | Description | | |
| Service/change Fluid | | | ? | The oil is near the end of it's useful service life, recommend schedule an oil change. | | |
| Resample | | | ? | We recommend an early resample to monitor this condition. | | |

HISTORICAL DIAGNOSIS



30 May 2023 Diag: Don Baldridge

The oil is near the end of it's useful service life, recommend schedule an oil change. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The tin level is severe. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.



view report

23 Jan 2023 Diag: Jonathan Hester



The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. The tin level is severe. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.

02 Dec 2022 Diag: Doug Bogart





The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. The tin level is severe. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is at the top-end of the recommended limit.







OIL ANALYSIS REPORT

Area Milliken Machine Id INGERSOLL RAND EE4347U19082 - MILLIKEN Component

Compressor

Fluid INGERSOLL-RAND SSR ULTRA COOLANT (--- GAL)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

🛑 Wear

The tin level is severe. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

| Sample Date Client Info 08 Aug 2023 30 May 2023 23 Jan 2023 Machine Age hrs Client Info 32420 30747 0 Oil Age hrs Client Info 6000 1000 0 Sample Status Client Info N/A Not Changd N/A SEVERE SEVERE WEAR METALS method Imit/base current history1 history1 history2 Iron ppm ASTM 05185m >50 3 1 2 Othornium ppm ASTM 05185m 0 0 -11 1 Nickel ppm ASTM 05185m 25 1 0 0 Lead ppm ASTM 05185m >50 <1 <1 -17 Yanadium ppm ASTM 05185m >50 <1 0 0 Adamium ppm ASTM 05185m <1 0 0 <1 Vanadium ppm ASTM 05185m <1 0 | (GAL) | | Aug2019 No | v2019 May2020 Dec20 | 20 Jul2021 Aug2022 Jan20; | 23 Aug202: | | | | | | |
|--|--|---|--|---|--|---------------|----------------|--|-------------|--|---|--|
| Sample Date Client Info 08 Aug 2023 30 May 2023 23 Jan 2023 Machine Age hrs Client Info 32420 30747 0 Oil Age hrs Client Info 6000 1000 0 Sample Status Client Info N/A Not Changd N/A SEVERE SEVERE WEAR METALS method Imit/base current history1 history1 history2 Iron ppm ASTM 05185m >50 3 1 2 0< | SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 | | | | | |
| Machine Age hrs Client Info 32420 30747 0 Oil Age hrs Client Info 6000 1000 0 Oil Age hrs Client Info N/A Not Changd N/A Sample Status Imit/base current history1 history1 history1 Iron ppm ASTM D5185m >50 3 1 2 Chromium ppm ASTM D5185m >50 3 1 2 Chromium ppm ASTM D5185m >50 3 1 2 Silver ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 <1 | Sample Number | | Client Info | | APCI2320835 | APC0000298 | APC0000296 | | | | | |
| Oil Age hrs Client Info 6000 1000 0 Oil Changed Client Info N/A Not Changd N/A Sample Status Imit/Dase current history1 history2 Iron ppm ASTM D5185m >50 3 1 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m 0 0 0 0 Auminum ppm ASTM D5185m 225 1 0 0 0 Copper ppm ASTM D5185m >15 183 124 179 Vanadium ppm ASTM D5185m <<1 | Sample Date | | Client Info | | 08 Aug 2023 | 30 May 2023 | 23 Jan 2023 | | | | | |
| Oil Changed Client Info N/A Not Changed N/A Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >50 3 1 2 Chromium ppm ASTM D5185m >50 3 1 2 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >25 1 0 0 Copper ppm ASTM D5185m >25 1 0 0 Cadmium ppm ASTM D5185m >50 <1 | Machine Age | hrs | Client Info | | 32420 | 30747 | 0 | | | | | |
| Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >50 3 1 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >25 1 0 0 Copper ppm ASTM D5185m >55 <1 | Oil Age | hrs | Client Info | | 6000 | 1000 | 0 | | | | | |
| WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >50 3 1 2 Chromium ppm ASTM 05185m >10 0 0 0 Nickel ppm ASTM 05185m 0 0 0 0 Silver ppm ASTM 05185m >25 1 0 0 Auminum ppm ASTM 05185m >25 1 0 0 Lead ppm ASTM 05185m >25 1 0 0 Cadmium ppm ASTM 05185m >15 183 124 17 Vanadium ppm ASTM 05185m <1 | Oil Changed | | Client Info | | N/A | Not Changd | N/A | | | | | |
| Iron ppm ASTM D5185m >50 3 1 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >50 <1 | Sample Status | | | | SEVERE | SEVERE | SEVERE | | | | | |
| Dromium ppm ASTM D5185m >10 0 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 ASTM D5185m >25 1 0 0 0 Astm D5185m >25 1 0 0 0 Copper ppm ASTM D5185m >50 <1 | WEAR METALS | | method | limit/base | current | history1 | history2 | | | | | |
| Nickel ppm ASTM D5185m 0 0 <1 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 1 0 0 Aluminum ppm ASTM D5185m >25 -1 0 0 Lead ppm ASTM D5185m >25 -1 0 0 Copper ppm ASTM D5185m >50 <1 | Iron | ppm | ASTM D5185m | >50 | 3 | 1 | 2 | | | | | |
| Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >25 <1 | Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 | | | | | |
| Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 1 0 0 Aluminum ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >25 <1 | Nickel | ppm | ASTM D5185m | | 0 | 0 | <1 | | | | | |
| Aluminum ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >25 <1 | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 | | | | | |
| Aluminum ppm ASTM D5185m >25 1 0 0 Lead ppm ASTM D5185m >25 <1 | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 | | | | | |
| Lead ppm ASTM D5185m >25 <1 0 0 Copper ppm ASTM D5185m >50 <1 | Aluminum | | ASTM D5185m | >25 | | 0 | 0 | | | | | |
| Copper ppm ASTM D5185m >50 <1 <1 <1 Tin ppm ASTM D5185m >15 183 124 179 Vanadium ppm ASTM D5185m <1 | | | | | | | | | | | | |
| Tin ppm ASTM D5185m >15 183 124 179 Vanadium ppm ASTM D5185m <1 | | | | | | | - | | | | | |
| Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 | | | | | | | | | | | | |
| Cadmium ppm ASTM D5185m <1 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 <1 Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 0 0 Manganese ppm ASTM D5185m 0 <1 0 2 Calcium ppm ASTM D5185m 0 <1 0 2 Calcium ppm ASTM D5185m 0 2 1 5 Phosphorus ppm ASTM D5185m 0 14 <1 7 Sulfur ppm ASTM D5185m 200 348 310 350 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <th< td=""><td></td><td></td><td></td><td>210</td><th>-</th><td>· •</td><td>•</td></th<> | | | | 210 | - | · • | • | | | | | |
| ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 <1 | | | | | | | | | | | | |
| Boron ppm ASTM D5185m 0 0 0 < <th><<th><<th><<th><<th> Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1</th></th></th></th></th> | < <th><<th><<th><<th> Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1</th></th></th></th> | < <th><<th><<th> Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1</th></th></th> | < <th><<th> Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1</th></th> | < <th> Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1</th> | Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1 | | ррш | | Part Incore | | - | |
| Barium ppm ASTM D5185m 500 480 691 318 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1 | | | | | | | | | | | | |
| Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m <<1 | | | | | | | | | | | | |
| Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 0 <1 | | | | | | | | | | | | |
| Magnesium ppm ASTM D5185m 0 <1 0 2 Calcium ppm ASTM D5185m 0 2 1 5 Phosphorus ppm ASTM D5185m 20 7 0 13 Zinc ppm ASTM D5185m 0 14 <1 | , | | | 0 | - | | | | | | | |
| Calcium ppm ASTM D5185m 0 2 1 5 Phosphorus ppm ASTM D5185m 20 7 0 13 Zinc ppm ASTM D5185m 0 14 <1 | • | | | <u>^</u> | | | | | | | | |
| Phosphorus ppm ASTM D5185m 20 7 0 13 Zinc ppm ASTM D5185m 0 14 <1 | • | | | | | | | | | | | |
| Zinc ppm ASTM D5185m 0 14 <1 7 Sulfur ppm ASTM D5185m 200 348 310 350 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 1 2 Sodium ppm ASTM D5185m >20 9 5 11 Water % ASTM D5185m >20 9 5 11 Water % ASTM D6304 >0.1 0.568 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >21µm ASTM D7647 >20 189 <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td> | | | | | | | | | | | | |
| Sulfur ppm ASTM D5185m 200 348 310 350 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 1 2 Sodium ppm ASTM D5185m >20 9 5 11 Sodium ppm ASTM D5185m >20 9 5 11 Water % ASTM D5185m >20 9 5 11 Water % ASTM D5185m >20 9 5 11 Water % ASTM D6304 >0.1 0.568 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >14µm ASTM D7647 >2500 105 | | ppm | | | | | | | | | | |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 1 2 Sodium ppm ASTM D5185m >25 2 1 2 Sodium ppm ASTM D5185m >20 9 5 11 Water % ASTM D6304 >0.1 0.5668 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >1µm ASTM D7647 >20 189 450 689 Particles >21µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 20 2 4 | | ppm | | | | | | | | | | |
| Silicon ppm ASTM D5185m >25 2 1 2 Sodium ppm ASTM D5185m 33 33 68 Potassium ppm ASTM D5185m >20 9 5 11 Water % ASTM D6304 >0.1 0.568 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >14µm ASTM D7647 >20 189 450 689 Particles >21µm ASTM D7647 >20 2 4 8 Particles >38µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 >4 0 0 1 24/22/17 | Sulfur | ppm | ASTM D5185m | 200 | 348 | 310 | 350 | | | | | |
| Sodium ppm ASTM D5185m 33 33 68 Potassium ppm ASTM D5185m >20 9 5 11 Water % ASTM D5185m >20 9 5 11 Water % ASTM D6304 >0.1 0.5688 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >14µm ASTM D7647 >320 189 450 689 Particles >21µm ASTM D7647 >20 2 4 8 Particles >38µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 >4 0 0 1 24/22/1 | CONTAMINANTS | | method | limit/base | current | history1 | history2 | | | | | |
| Potassium ppm ASTM D5185m >20 9 5 11 Water % ASTM D6304 >0.1 0.568 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 ▲ 50248 ▲ 60017 ▲ 107455 Particles >6µm ASTM D7647 >2500 ▲ 10570 ▲ 17534 ▲ 33912 Particles >14µm ASTM D7647 >320 189 ▲ 450 ▲ 689 Particles >21µm ASTM D7647 >20 2 4 8 Particles >38µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 FLUID DEGRADATION method limit/base current < | Silicon | ppm | ASTM D5185m | >25 | 2 | 1 | 2 | | | | | |
| Water % ASTM D6304 >0.1 0.568 0.472 0.298 ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >14µm ASTM D7647 >20 189 450 689 Particles >21µm ASTM D7647 >20 2 4 8 Particles >38µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Sodium | ppm | ASTM D5185m | | 33 | 33 | 68 | | | | | |
| ppm Water ppm ASTM D6304 >1000 5682.9 4720.7 2986.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >14µm ASTM D7647 >320 189 450 689 Particles >14µm ASTM D7647 >20 2 4 8 Particles >38µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Potassium | ppm | ASTM D5185m | >20 | 9 | 5 | 11 | | | | | |
| FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 50248 60017 107455 Particles >6µm ASTM D7647 >2500 10570 17534 33912 Particles >6µm ASTM D7647 >320 189 450 689 Particles >14µm ASTM D7647 >80 43 94 96 Particles >21µm ASTM D7647 >20 2 4 8 Particles >38µm ASTM D7647 >20 2 4 8 Particles >71µm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 | Water | % | ASTM D6304 | >0.1 | 0.568 | 0.472 | 0.298 | | | | | |
| Particles >4μm ASTM D7647 >10000 50248 60017 107455 Particles >6μm ASTM D7647 >2500 10570 17534 33912 Particles >14μm ASTM D7647 >320 189 450 689 Particles >21μm ASTM D7647 >80 43 94 96 Particles >38μm ASTM D7647 >20 2 4 8 Particles >71μm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 | ppm Water | ppm | ASTM D6304 | >1000 | 5682.9 | 4720.7 | 2986.6 | | | | | |
| Particles >6μm ASTM D7647 >2500 10570 17534 33912 Particles >14μm ASTM D7647 >320 189 450 689 Particles >21μm ASTM D7647 >80 43 94 96 Particles >38μm ASTM D7647 >20 2 4 8 Particles >38μm ASTM D7647 >20 2 4 8 Particles >71μm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 | FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 | | | | | |
| Particles >14μm ASTM D7647 >320 189 450 689 Particles >21μm ASTM D7647 >80 43 94 96 Particles >38μm ASTM D7647 >20 2 4 8 Particles >38μm ASTM D7647 >20 2 4 8 Particles >71μm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Particles >4µm | | ASTM D7647 | >10000 | 6 50248 | ▲ 60017 | ▲ 107455 | | | | | |
| Particles >21μm ASTM D7647 >80 43 94 96 Particles >38μm ASTM D7647 >20 2 4 8 Particles >71μm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 23/21/16 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Particles >6µm | | ASTM D7647 | >2500 | <u> </u> | 1 7534 | A 33912 | | | | | |
| Particles >38μm ASTM D7647 >20 2 4 8 Particles >71μm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 23/21/15 ▲ 23/21/16 ▲ 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Particles >14µm | | ASTM D7647 | >320 | 189 | 4 50 | 6 89 | | | | | |
| Particles >71μm ASTM D7647 >4 0 0 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 23/21/15 ▲ 23/21/16 ▲ 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Particles >21µm | | ASTM D7647 | >80 | 43 | 9 4 | 9 6 | | | | | |
| Oil Cleanliness ISO 4406 (c) >20/18/15 	 23/21/15 	 23/21/16 	 24/22/17 FLUID DEGRADATION method limit/base current history1 history2 | Particles >38µm | | ASTM D7647 | >20 | 2 | 4 | 8 | | | | | |
| FLUID DEGRADATION method limit/base current history1 history2 | Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | 1 | | | | | |
| | Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 23/21/15 | ▲ 23/21/16 | ▲ 24/22/17 | | | | | |
| Acid Number (AN) mg KOH/g ASTM D8045 0.52 0.42 1.19 | FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 | | | | | |
| | Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.52 | 0.42 | 1.19 | | | | | |

Sample Rating Trend

WEAR



a 1.00

0.00

4.0

3.5

3.0

2.5

2.0 Mater

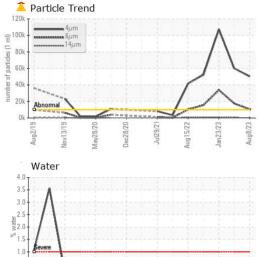
²⁸1.5 1.0

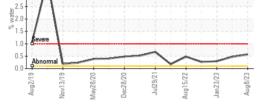
0.5

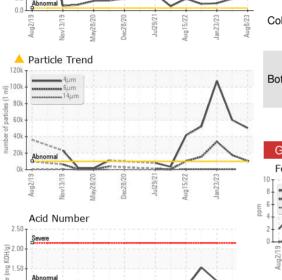
0.0

Aug2/1

OIL ANALYSIS REPORT







| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| 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 | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 49.4 | 53.7 | 52.9 | 58.4 |
| SAMPLE IMAGES | \$ | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Color | | | | | | |



Bottom

