Analysis:

Command: "pdftocairo -png poppler-pdftocairo-poc temp.png" Assert() at line 1293 in pdftocairo.cc

```
1289
        #ifndef NDEBUG
            // Clear the cairo font cache. If all references to font faces or
 1290
 1291
             // scaled fonts have not been released this function will
 1292
              // assert. If this occurs we have found a memory leak.
           cairo_debug_reset_static_data();
1293
 1294
        #endif
 1295
 1296
             return 0;
 1297
 1298
@ (afl_env) (base) user@ubuntu:~/zgd/AFLProject/pdf_parsers/poppler-25.04.0/build/utils$ ./pdftocairo -png ./../../..
 /pdf_fuzz/poppler-master/pdftocairo/analyze_crashes/afl++/poppler-pdftocairo-poc temp.png
 Internal Error: cairo context error: error occurred in libfreetype
 cairo error: error occurred in libfreetype
 Syntax Warning: Unknown font type: 'Type1!'
 pdftocairo: ../../../src/cairo-ft-font.c:503: _cairo_ft_unscaled_font_fini: Assertion `unscaled->face == NULL' fail
 Aborted (core dumped)
```

We run the program with gdb, run to cairo_debug_reset_static_data(); and dump the heap memory, and find all the stream information leaks of 6 0 obj objects.

```
000C6FC0 6A 0A 0A 36 20 30 20 6F 62 6A 0A 20 20 3C 3C 20 j . . 6 0 o b j .
000C6FD0 \, 2F 4C 65 6E 67 74 68 20 38 38 20 3E 3E 0A 73 74 \, / L e n g t h \, 8 8 \, > > \, .
000C6FE0 72 65 61 6D 0A 20 20 71 20 31 20 30 2E 33 20 30 ream.
                                                                 0.3
                                                          a
                                                             1
000C6FF0 2E 33 20 72 67 20 30 20 30 20 35 39 35 20 38 34
                                              . 3 rg 0
                                                              5 9 5
000C7000 32 20 72 65 20 46 20 51 20 42 54 20 2F 46 31 20 2 re F
                                                          QBT
000C7010 32 32 20 54 66 20 33 30 20 38 30 30 20 54 64 20 2 2 T f
                                                        3 0 8 0 0
000C7020 28 54 68 69 73 20 69 73 20 74 68 65 20 32 6E 64
                                              (This
                                                         is
                                                              the
000C7030 20 70 61 67 65 29 20 54 6A 20 45 54 0A 65 6E 64
                                               page) Tj ET.end
000C7040 73 74 72 65 61 6D 0A 65 6E 64 6F 62 6A 0A 0A 78
                                              stream.endobj
000C7060 30 30 20 36 35 35 33 35 20 66 20 0A 30 30 30 20 0 0 6 5 5 3 5 f . 0 0 0
```

Fix recommendation:

zero-fill or securely free heap buffers holding PDF streams before calling cairo debug reset static data().