User Manual

CIVILAB 2023

OEDOMETER TEST

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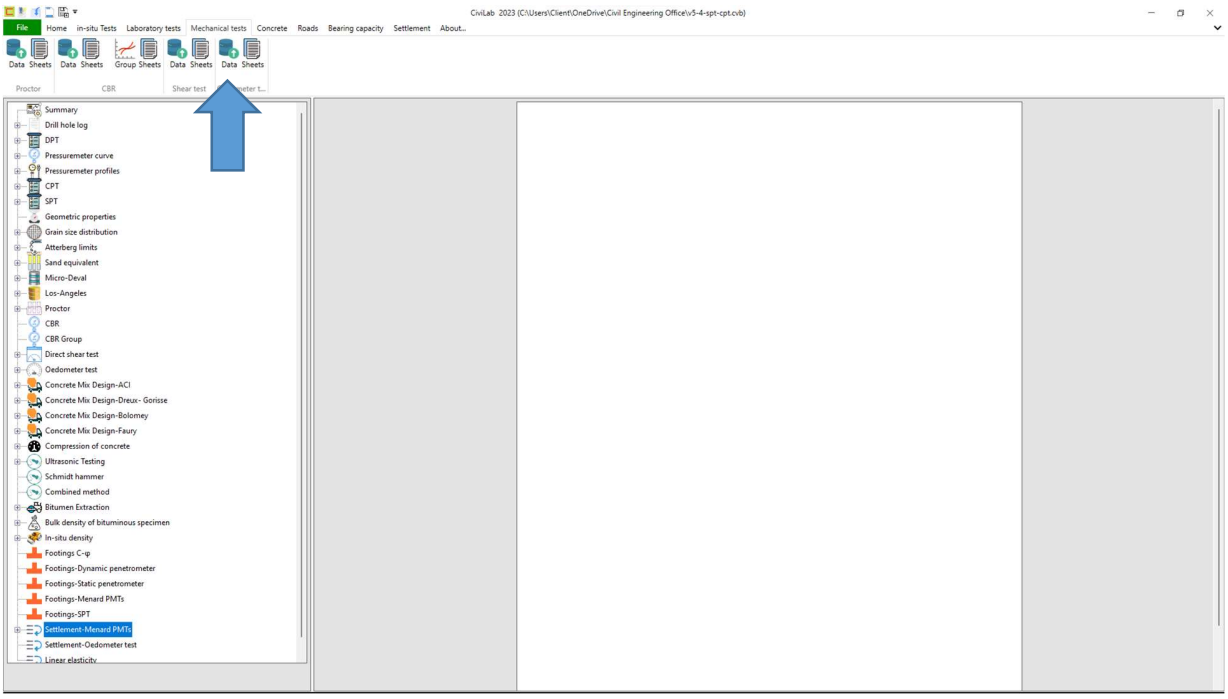
How to use CiviLab to perform the Oedometer test?

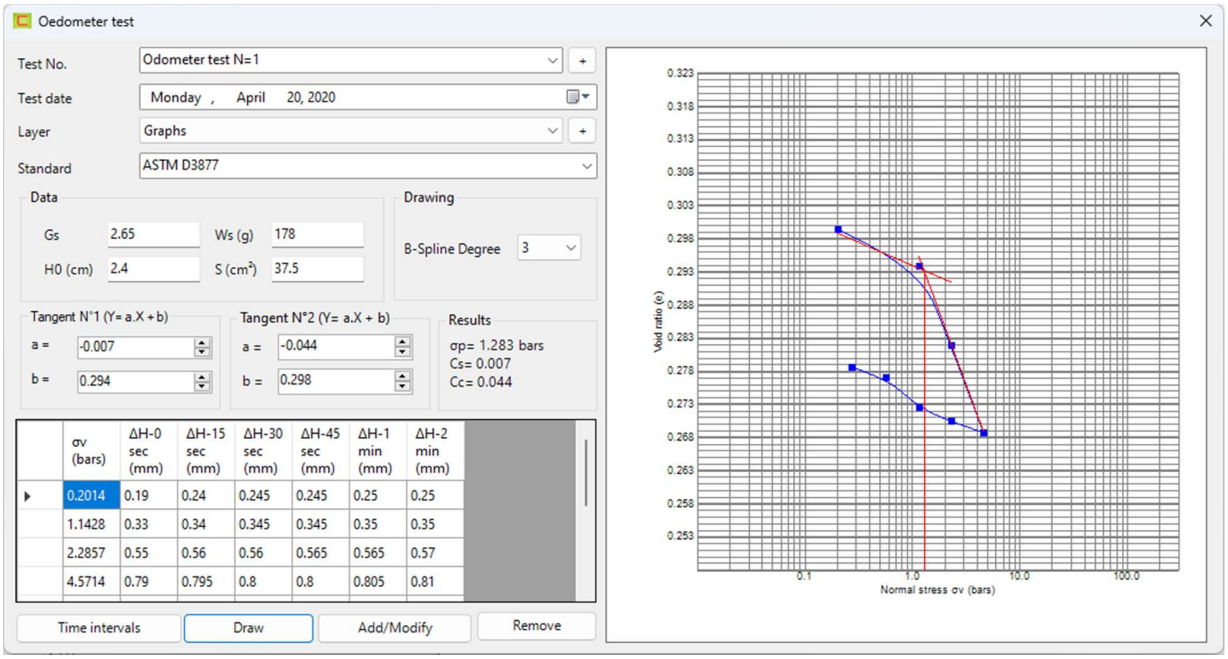
1- Test Data:

Click on the "Mechanical Tests" tab then click on the "Data" button in the "Oedometer Test" panel, then input:

- The test name;
- The test date;
- The layer which should be used in the drawing process;
- The standard used;
- The relative density of the specimen;
- The dry mass of the specimen;
- The initial thickness of the sample;
- The ring section;
- You can change the time intervals by clicking on the "Time intervals" button;
- The load increments and the different corresponding settlements;
- Select the degree of the polynomial curve (to plot the oedometric curve);
- Click on "Draw" button to plot the oedometric curve;
- You can edit the tangent parameters by modifying "a" and "b" parameters of the Tangent No 1 and the Tangent No 2;

Click on the button of "Add/Modify";





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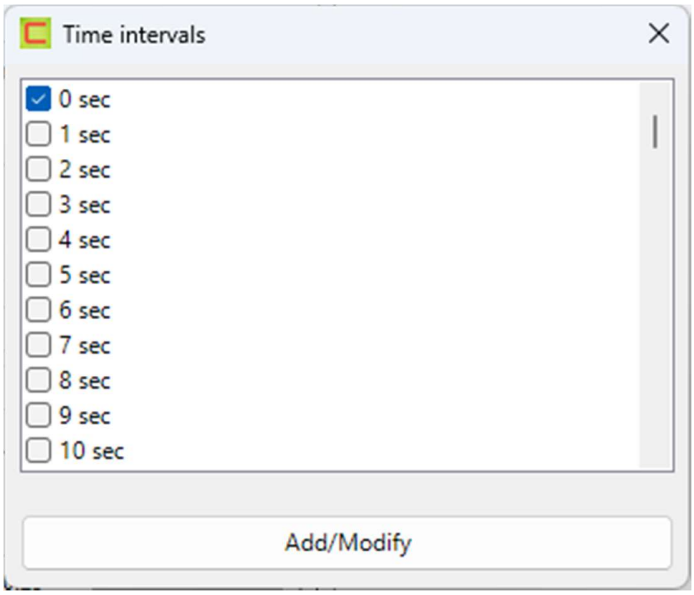
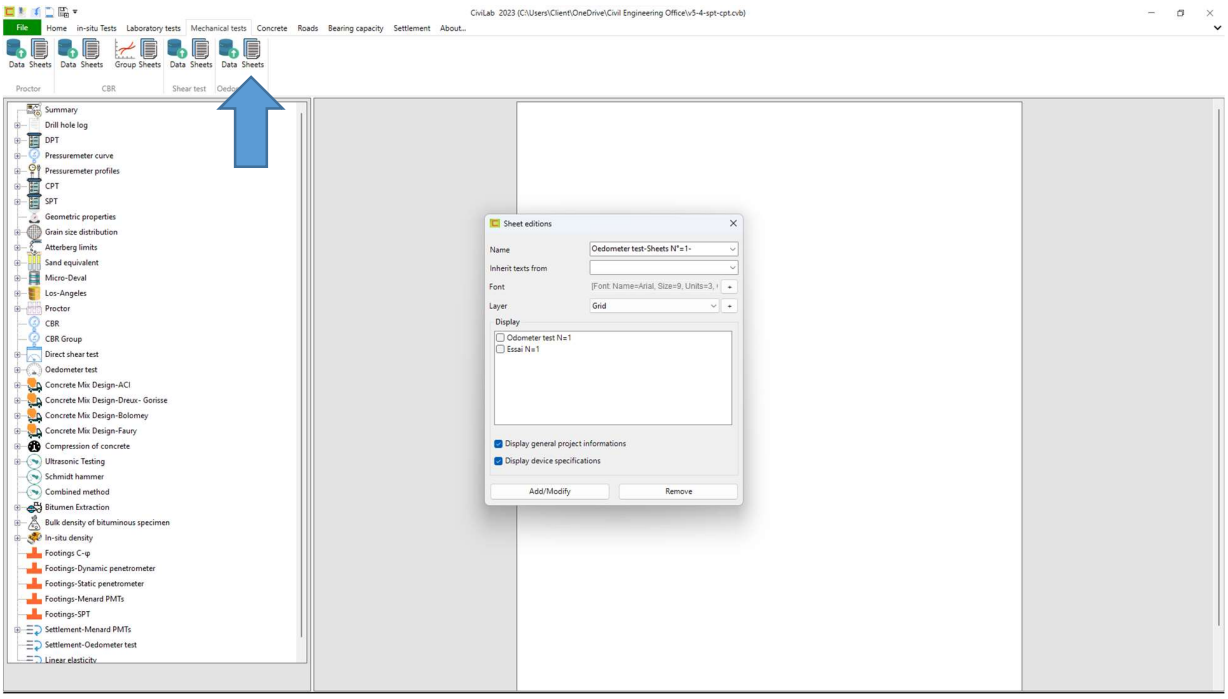


2- Add a sheet:

Click on the "Sheets" button in the "Oedometer Test" panel and input:

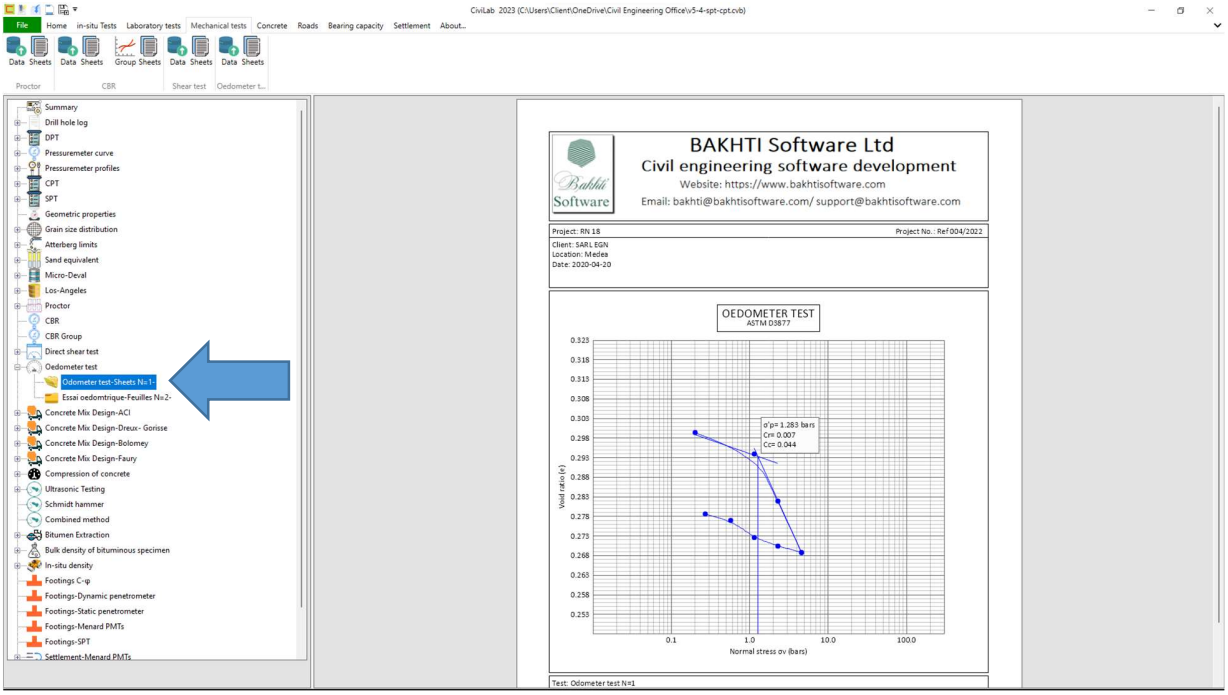
- The sheet name;
- Select the font;
- Select the layer used in the background drawing;
- Select the tests;
- To display general project information's check the corresponding box;
- To display test information's check the corresponding box;

Then click on "Add/Modify" button



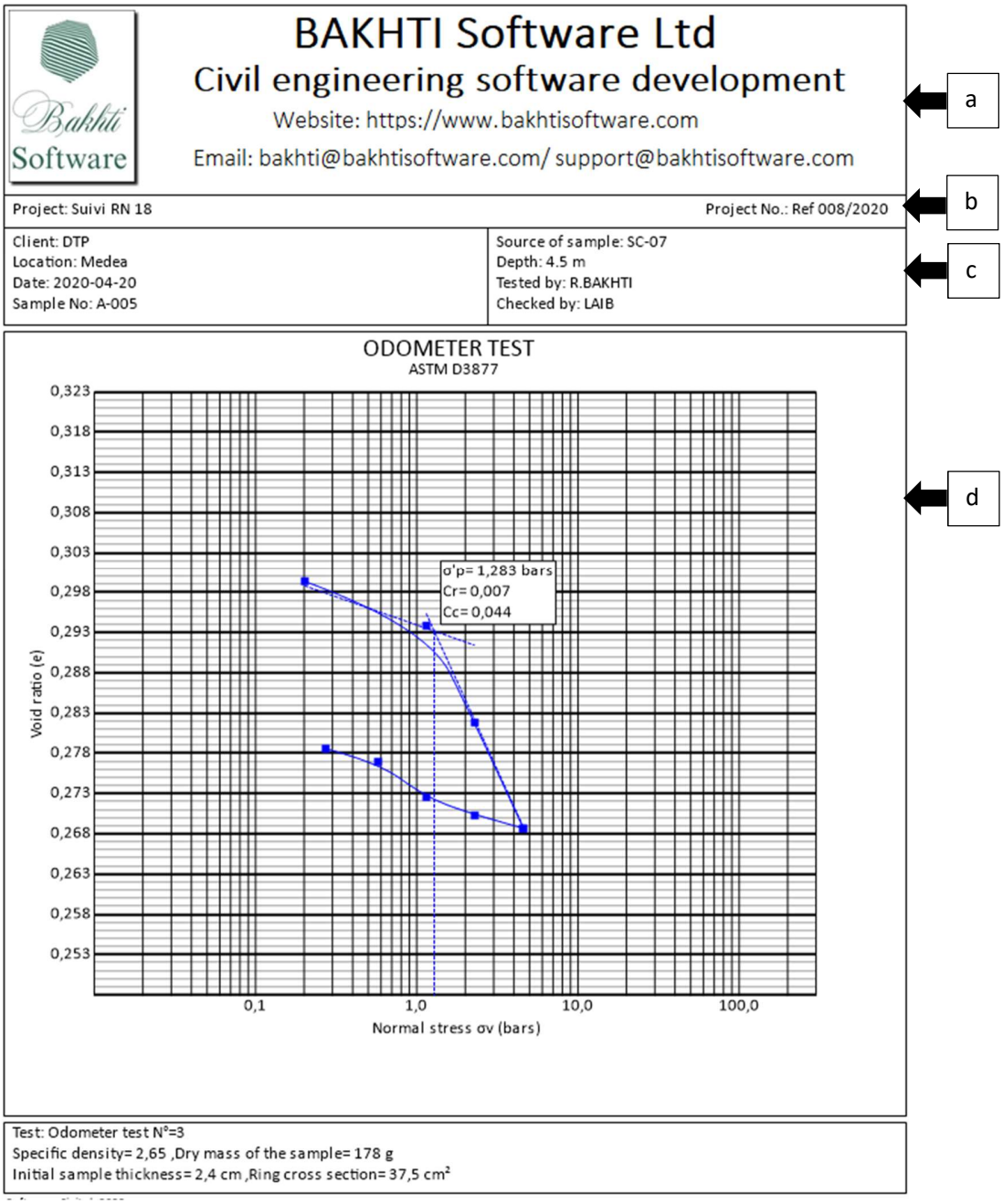
3- Display the report

To display the report, click on the sheet name in the tree view



To export or print the report, click on "Home" tab, then click the appropriate button in the outputs panel (Print or Export button)

4- Test report :



a. **Sheet Header Presentation:** To import or modify the sheet header, go to the "Home" tab and select the "Header" button.

b. Project Name and Reference: These details can be entered from the project's general information found in the File menu.

c. Area for Displaying Test Information: Test information can be input within this area from the Test Information window (to show it click on the “+” button next to the name of the test on Data window) and project's general information window.

d. Area for results: this area is designated to visualize the results.