

## GDSLAB REPORTS

**Overview:** GDSLAB Reports is a program that combines the simplicity of a Windows user interface, with the power of Microsoft Excel. Data obtained using GDSLAB control and data acquisition software (or directly from your logger's software) may be selected, viewed and manipulated where necessary before being exported directly as an Excel spreadsheet.

### Key Features:

### Benefits to the User:

GDSLAB Reports is a laboratory test results presentation package to National Standards:	Available for BS and ASTM standards.
Fully Customised:	The template spreadsheet can be customised to a specific company format as required.
Microsoft Excel:	Excel is widely accepted as the most popular spreadsheet program available today, and as such is seen as a simple interface, that many computer users can already easily manipulate. This also allows your reports to be distributed in electronic format without the need for specific software
Modular Software:	GDSLAB Reports is modular so you only need to purchase the modules required for your testing requirements or your International standard requirements.
Flexible Reporting:	Reports can be created from data saved in GDSLAB, data downloaded from a datalogger or data can be manually input directly into GDSLAB Reports.

### Modules Available:

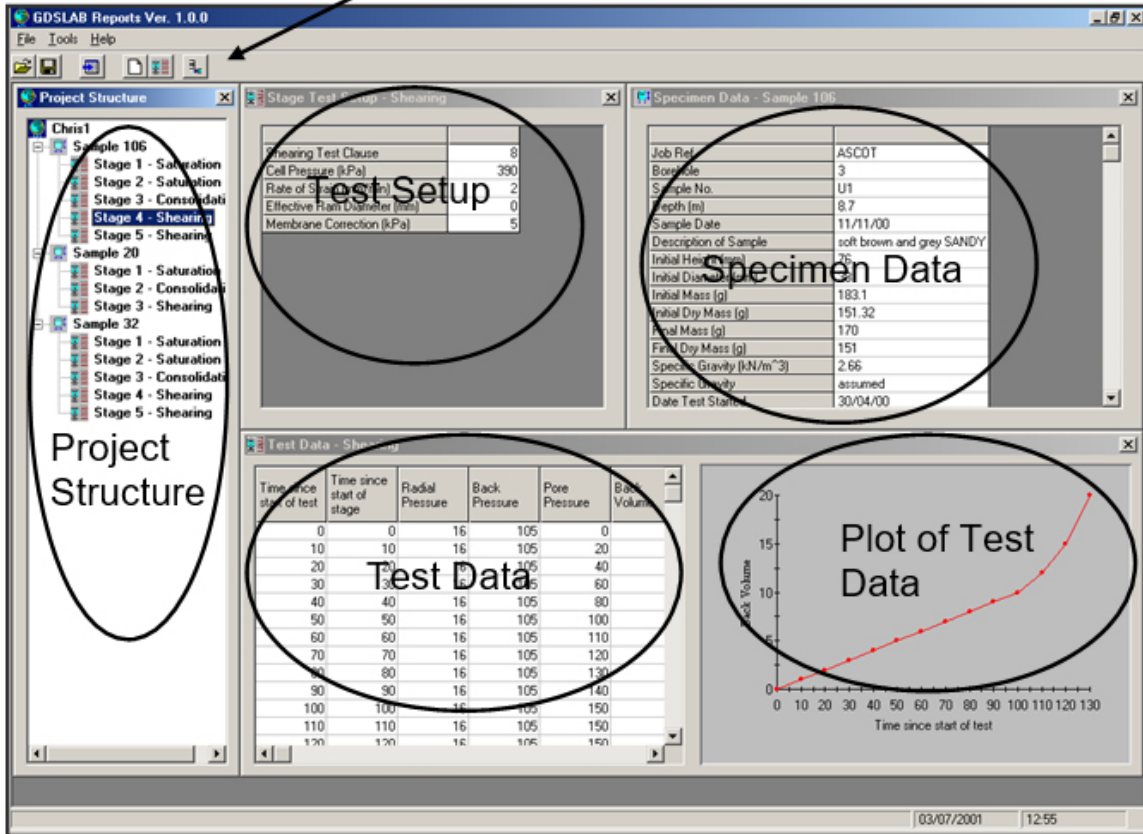
- BS1377 : Part 5 : 1990 – Oedometer Test
- BS1377 : Part 7 : 1990 – Direct Shear Test
- BS1377 : Part 7 : 1990 – Unconsolidated Undrained Triaxial Compression test
- BS1377 : Part 7 : 1990 – Triaxial Shear Strength Tests (Total Stress)
- BS1377 : Part 8 : 1990 – Triaxial Shear Strength Tests (Effective Stress)
- ASTM D2435/D2435M-11 – Oedometer Test
- ASTM D2850-03a (2007) – Unconsolidated Undrained Triaxial Compression Test
- ASTM D4767-11 – Consolidated Undrained Triaxial Compression Test
- ASTM D7181-11 – Consolidated Drained Triaxial Compression Test

### Technical Specification:

Operating System:	Windows 7 SP1 or higher (We strongly recommend that Windows is fully up to date and running the latest Service Pack/Version available). Recommended PC Specification: 2GHz processor, 4GB Ram, 64Bit Operating System and USB connectivity. Note: GDS software can run on lower spec PC's however; performance and processing of data may be affected.
PC Spec Hardware:	2GHz / 4GB Ram Note: Free serial ports /USB ports as required for individual hardware connection.

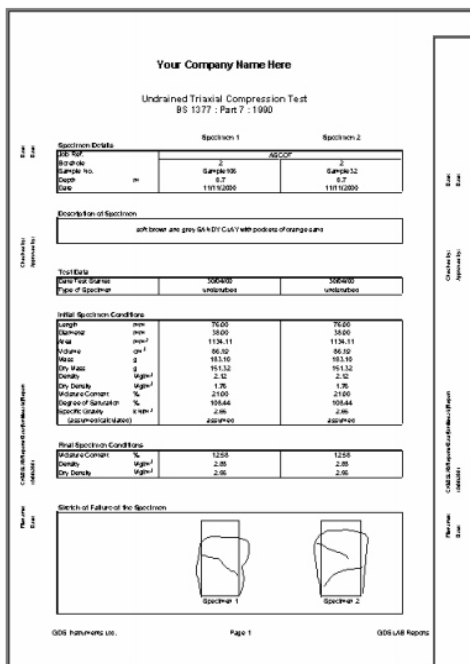
GDSLAB Reports Screenshots:

GDSLAB Reports Menu Bar and Toolbar



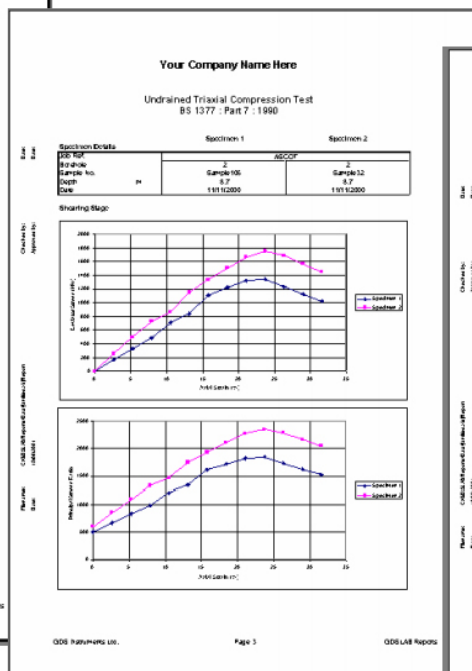
The screenshot shows the GDSLAB Reports Ver. 1.0.0 interface. The menu bar includes File, Tools, and Help. The toolbar contains icons for file operations and printing. The main window is divided into several panes:

- Project Structure:** A tree view on the left showing a hierarchy of samples (Sample 106, 20, 32) and their stages (Saturation, Consolidation, Shearing).
- Test Setup:** A table showing parameters for a shearing test, such as Shearing Test Clause (8), Cell Pressure (kPa) (390), Rate of Shear (mm/min) (2), Effective Ram Diameter (mm) (0), and Membrane Correction (kPa) (5).
- Specimen Data:** A table listing specimen details for Sample 106, including Job Ref (ASCOT), Borehole (3), Sample No (U1), Depth (m) (8.7), Sample Date (11/11/00), and various mass and density measurements.
- Test Data:** A table with columns for Time since start of test, Radial Pressure, Back Pressure, Pore Pressure, and Back Volume, showing data points from 0 to 120 minutes.
- Plot of Test Data:** A graph showing Back Volume (ml) on the y-axis (0 to 20) versus Time since start of test (min) on the x-axis (0 to 130). The plot shows a non-linear increasing trend.



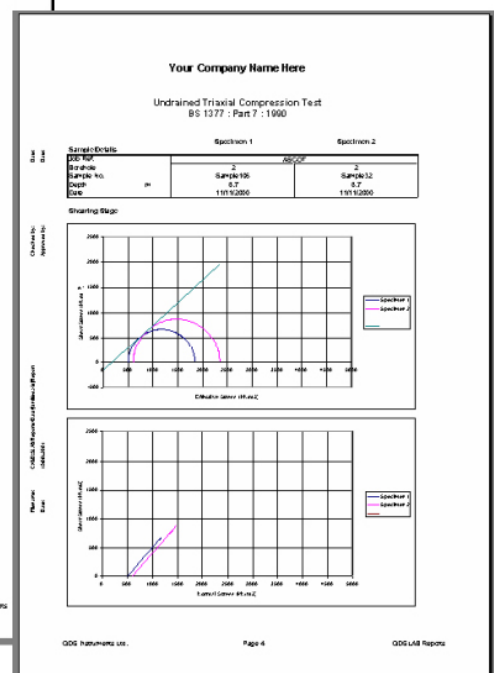
This is Page 1 of a report. It includes the following sections:

- Specimen Details:** A table for Specimen 1 and Specimen 2, listing parameters like Job Ref (ASCOT), Sample No (Sample 106, Sample 12), Depth (8.7, 8.7), and Date (11/11/2000, 11/11/2000).
- Description of Specimen:** A text box containing the description: "soft brown and grey SANDY Clay with pockets of orange clay".
- Test Data:** A table showing Date First Started (10/04/00) and Date of Specimen (unknown).
- Initial Specimen Conditions:** A table with columns for Parameter, Unit, and values for Specimen 1 and Specimen 2. Parameters include Sample, Diameter, Weight, Volume, Dry Density, Moisture Content, and Specific Gravity.
- Final Specimen Conditions:** A table with similar parameters to the initial conditions.
- Sketch of Failure of the Specimen:** Two diagrams labeled Specimen 1 and Specimen 2 showing the failure envelopes.



This is Page 3 of a report, showing the Shearing Stage. It contains two graphs:

- Top Graph:** A plot of Shear Stress (kPa) versus Axial Strain (%). The y-axis ranges from 0 to 2000 kPa, and the x-axis ranges from 0 to 25%. Two curves are shown: Specimen 1 (blue) and Specimen 2 (magenta). Both curves show an initial linear increase followed by a peak and then a slight decrease.
- Bottom Graph:** A similar plot of Shear Stress (kPa) versus Axial Strain (%), showing the same data as the top graph.



This is Page 4 of a report, showing the Shearing Stage. It contains two graphs:

- Top Graph:** A plot of Shear Stress (kPa) versus Deviator Stress (kPa). The y-axis ranges from 0 to 2000 kPa, and the x-axis ranges from 0 to 2000 kPa. Two curves are shown: Specimen 1 (blue) and Specimen 2 (magenta). Both curves show a linear relationship between shear stress and deviator stress.
- Bottom Graph:** A similar plot of Shear Stress (kPa) versus Deviator Stress (kPa), showing the same data as the top graph.

## Why Buy GDS?

### GDS have supplied equipment to over 86% of the world's top 50 Universities:

GDS have supplied equipment to over 86% of the world's top 50 Universities who specialise in Civil & Structural Engineering, according to the "QS World University Ranking 2020" report.

GDS also work with many commercial laboratories including BGC Canada, Fugro, GEO, Geolabs, Geoteko, Golder Associates, Inpijn Blokpoel, Klonn Crippen, MEG Consulting, Multiconsult, Statens Vegvesen, NGI, Ramboll, Russell Geotechnical Innovations Ltd, SA Geolabs, SGS, Wiertsema and Partners to name a few.

**TOP  
50**

### Would you recommend GDS equipment to your colleague, friend or associate?

**100% of our customers answered "YES"**

Results from our post-delivery survey asked customers for feedback on their delivery, installation (if applicable), supporting documentation, apparatus and overall satisfaction with GDS. The survey ran for two years.



### Made in the UK:

All GDS products are designed, manufactured and assembled in the UK at our offices in Hook. All products are quality assured before they are dispatched.

GDS are an ISO9001:2015 accredited company. The scope of this certificate applies to the approved quality administration systems relating to the "Manufacture of Laboratory and Field Testing Equipment".

**40 YEARS OF  
BRITISH  
INNOVATION**



### Extended Warranties:

All GDS apparatus are covered by a 12 month manufacturers warranty. In addition to the standard warranty, GDS offer comprehensive extended warranties for 12, 24 and 36 months, for peace of mind against any repairs in the future. The extended warranties can be purchased at any time during the first 12 months of ownership.



### GDS Training & Installation:

All installations & training are carried out by qualified engineers. A GDS engineer is assigned to each order throughout the sales process. They will quality assure the apparatus prior to shipping, if installation has been purchased, install the apparatus on the customers site & provide the training.



### Technical Support:

GDS understand the need for ongoing after sales support, so much so that they have their own dedicated customer support centre. Alongside their support centre GDS use a variety of additional support methods including remote PC support, product helpsheets, video tutorials, email and telephone support.

