Dynamox

USER MANUAL

Dynamox App



Dynamox_s.a | Dynamox | Dynamox.net

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1 First steps

This document provides a user guide for the Dynamox App, an application developed to interact and communicate with DynaLoggers.

The app allows users to register and perform the initial configuration of DynaLoggers, as well as conduct manual data readings and collection in the field via Bluetooth. The collected data can later be sent to the Dynamox Web Platform through an internet connection (3G, 4G, or Wi-Fi).

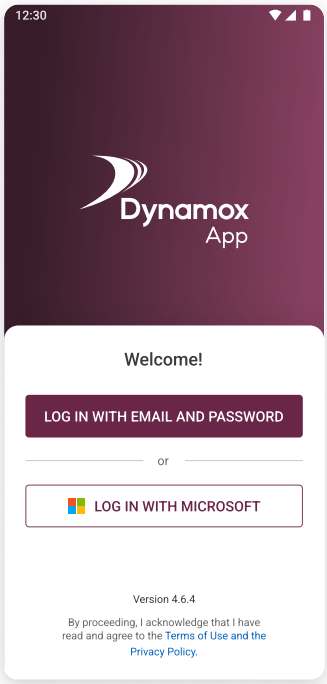
The Dynamox App requires Bluetooth technology and is available for download on Android (version 9.0 or higher) via the Google Play Store and on iOS (version 15.0 or higher) via the App Store.

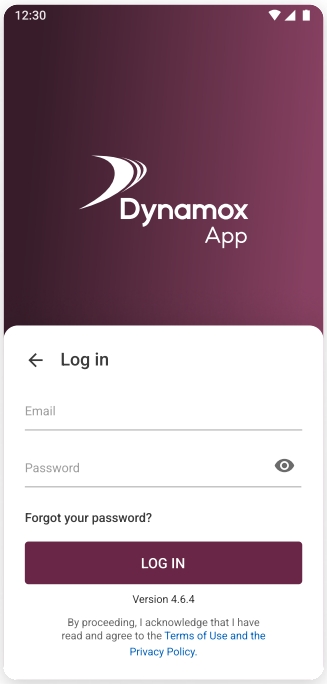
The following chapters detail the screens and functionalities of the Dynamox App.
It is essential to follow the information presented in this document to ensure the proper functioning of the solution.

2 Login and workspace

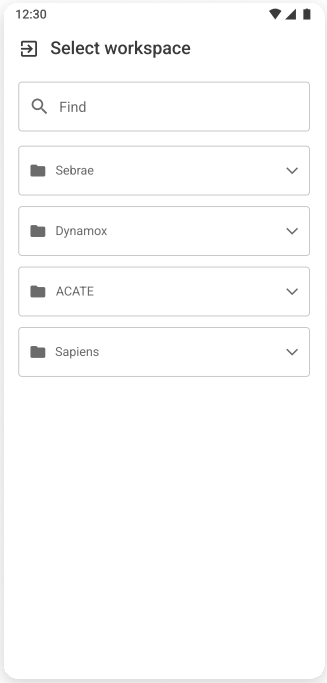
Upon first access to the app, or after logging out, the login screen will be displayed.
The fields shown in the image must be filled in with the access credentials previously obtained by the user (email and password).

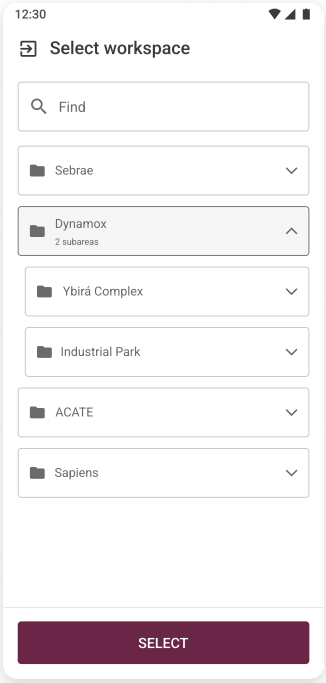
If the user does not have access credentials, they should contact Dynamox technical support at: support@dynamox.net.





After logging into the app, the workspace selection screen will appear, allowing the user to choose the desired area to access.

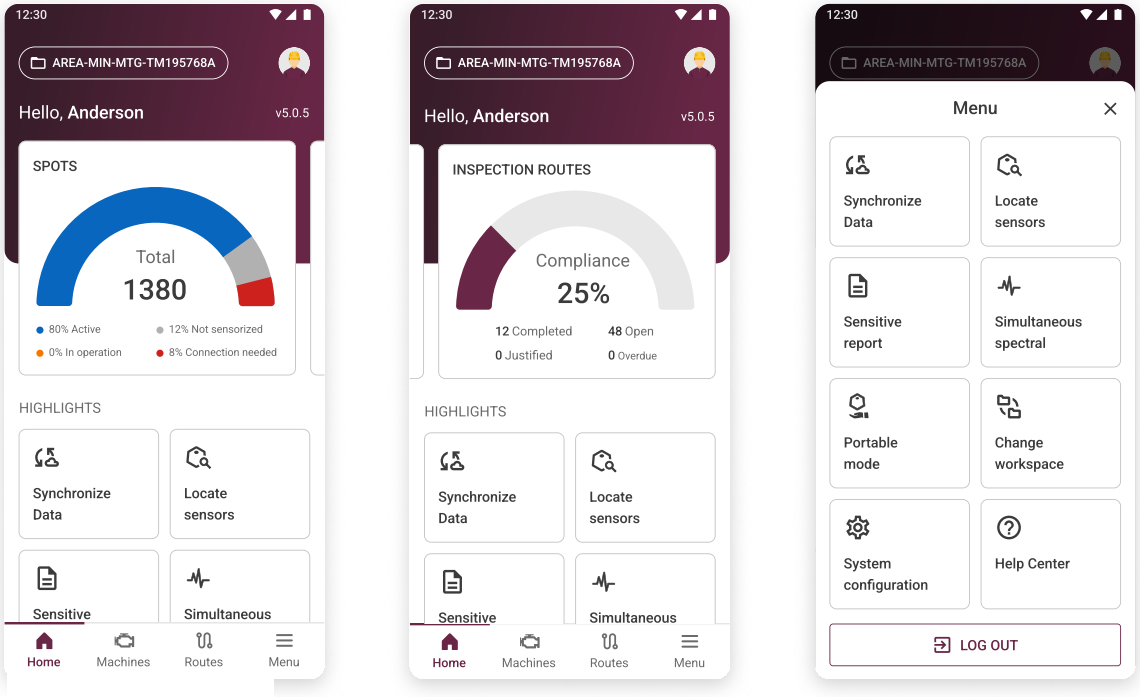




3 Dashboard and menu

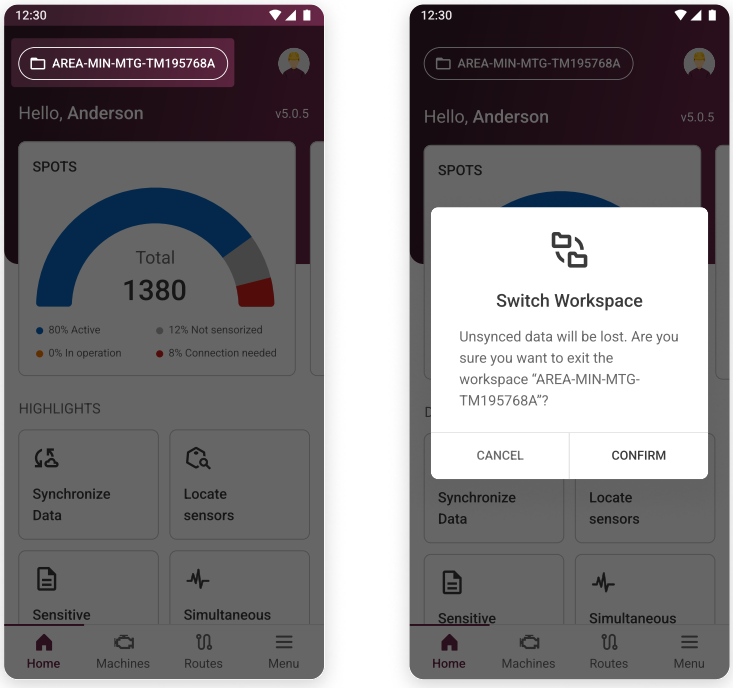
Next, the Dashboard screen will be displayed, showing indicators, highlights, and the bottom navigation bar.

The available options depend on the permissions previously assigned to the user on the Web Platform. For more details about permissions, refer to the Web Platform Manual - July 2024↗.



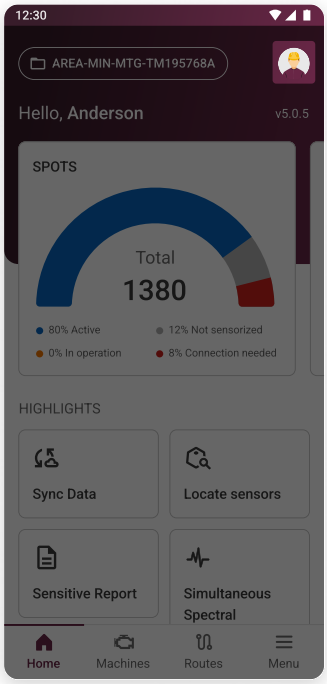
3.1 Switch workspace

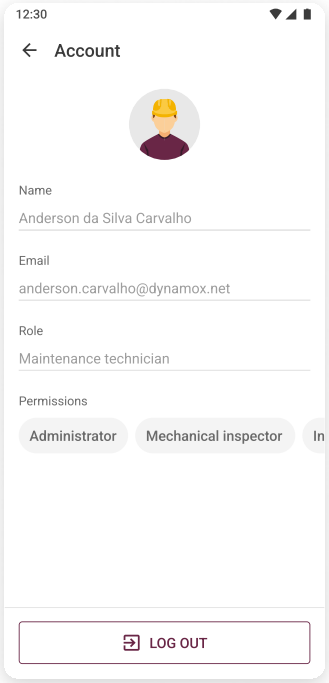
Users can switch between workspaces from other areas (according to their access rights).



3.2 Account

This section allows users to view their data and permissions.



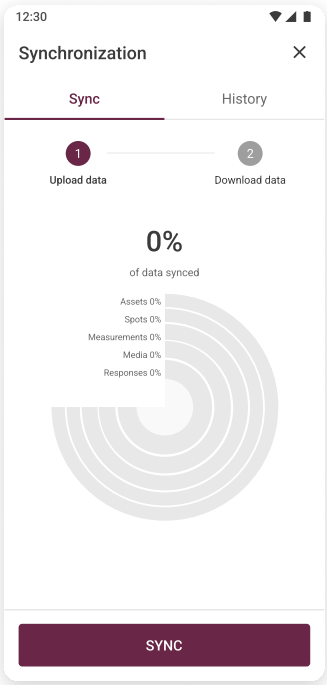


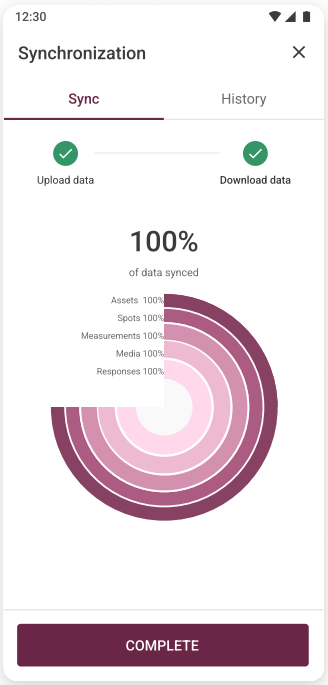
4 Key features

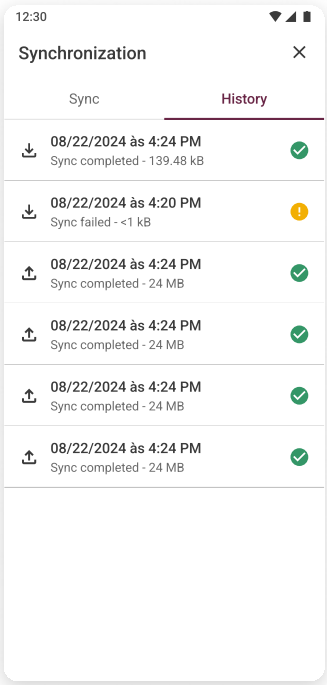
4.1 Sync data

After collecting data with the App, we recommend that users synchronize the data. This ensures that the data is sent to the Web Platform and added to the historical data of the corresponding Spot.

Synchronization can be performed via the **Sync Data** option on the home screen and in the menu, or through the red **Pending Synchronization** notification bar.





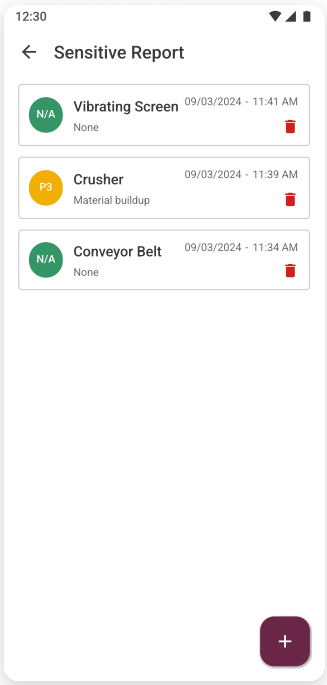


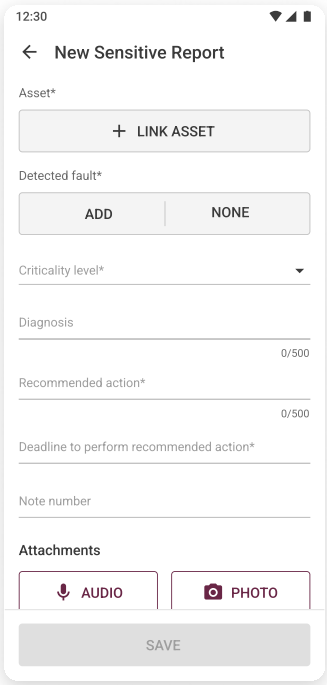
4.2 Sensitive report

Synchronization can be performed via the Sync Data option on the home screen and in the menu, or through the red Pending Synchronization notification bar.

To do so, the following fields must be completed (* indicates required fields):

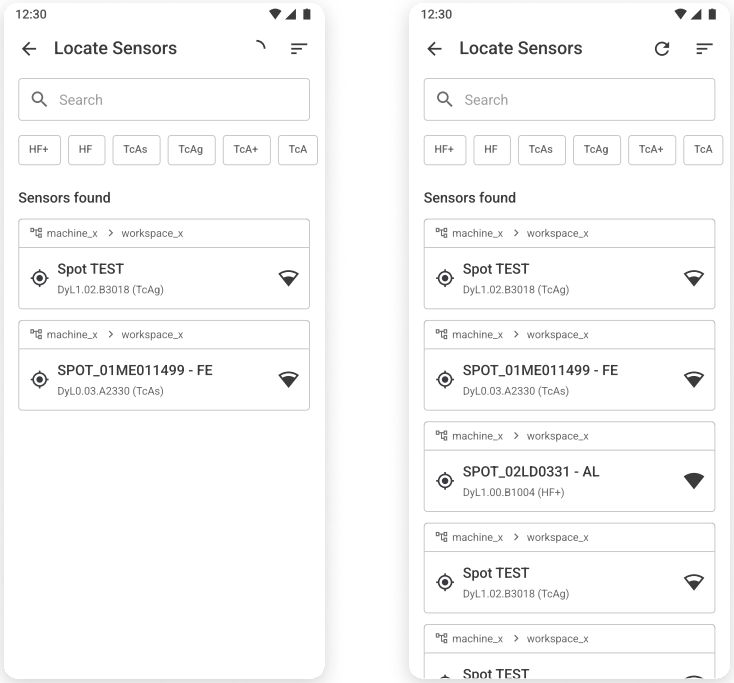
- **Asset*:** used to identify the machine, subsystem, or component where the fault was found;
- **Detected Fault*:** list of observed faults;
- **Criticality Level*:** severity of the observed faults;
- **Diagnosis:** diagnosis of the identified fault;
- **Recommended Action*:** suggested action to address the fault;
- **Deadline to Perform the Recommended Action*:** deadline by which the recommended action should be completed;
- **Service Note Number:** reference number for the service note;
- **Attachments:** audio and/or photo to assist in identifying the fault.





4.3 Locate sensors

Searches for registered DynaLoggers within Bluetooth range of the App.



4.4 Simultaneous spectral

The simultaneous spectral collection was developed to allow configuration and data collection from up to four monitoring points on a single asset.

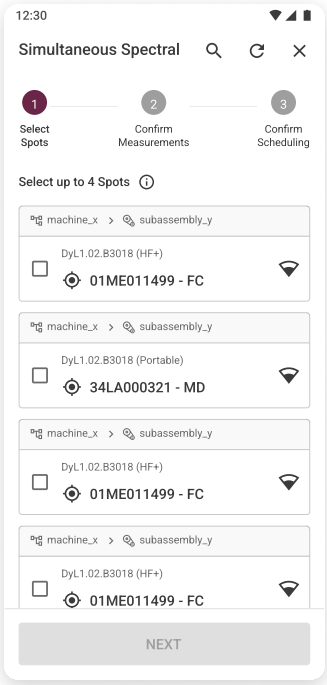
The selected Spots must be compatible for collection, meaning:

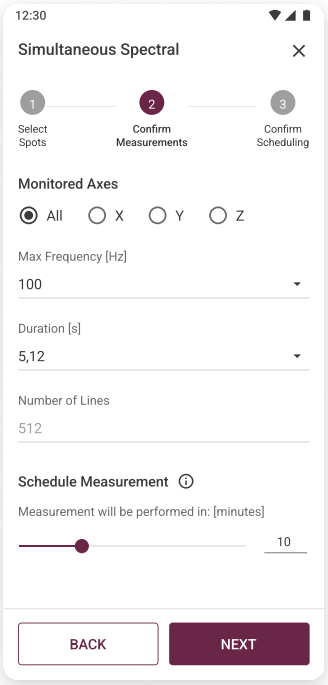
- All four Spots must use the same sensor model; or
- All four Spots must use HF or Rechargeable models; or
- All four Spots must use TCA+ or AS models.

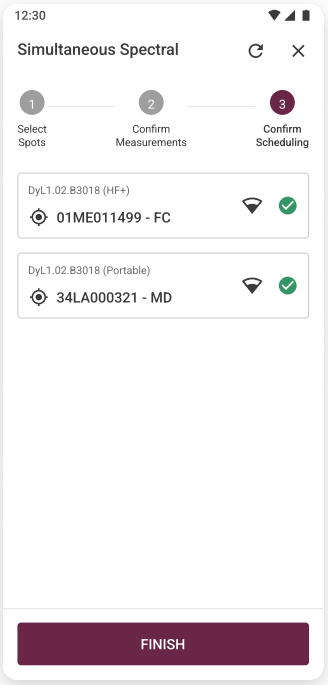
The app must connect to the selected sensors to download previously collected data, clearing memory and enabling new data collection.

At this stage, the user must define the monitored axes, the frequency and duration of the spectral collection, and scheduling time.

A notification will be issued once the simultaneous spectral monitoring data has been successfully collected.

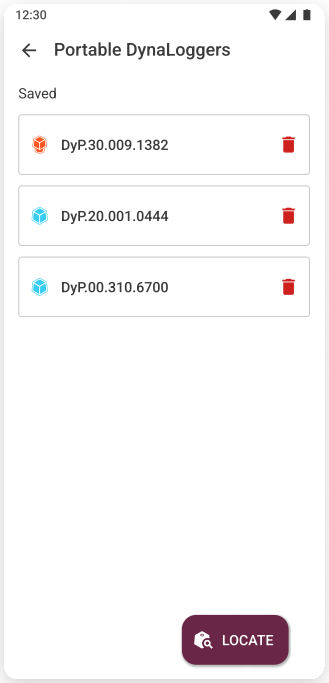


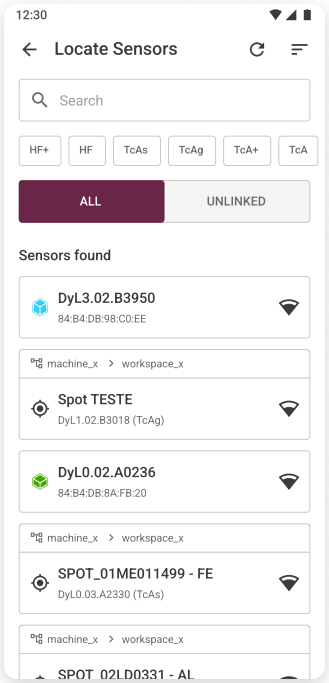




4.5 Portable DynaLoggers

This screen allows fast configuration for data collection using DynaPortable sensors or a DynaLogger in portable mode.

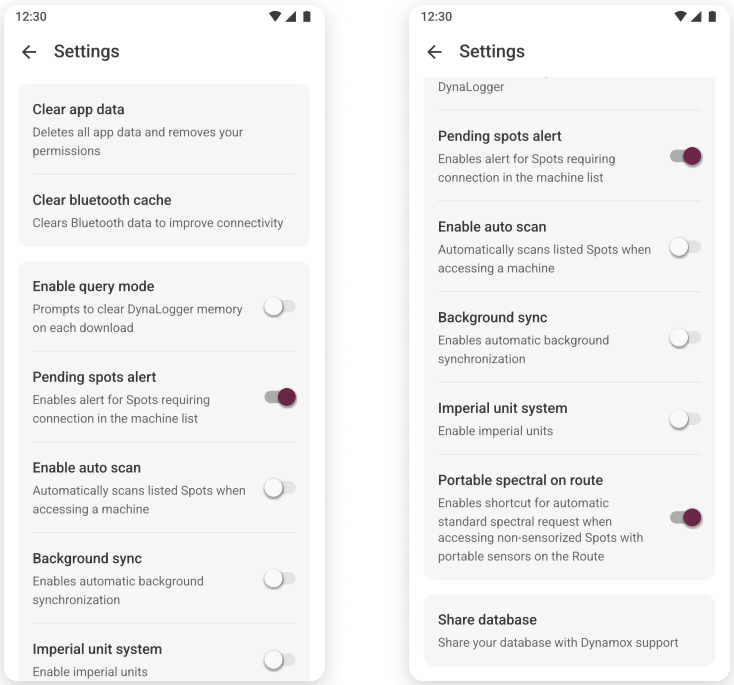




4.6 Settings

It is possible to access App Settings via the side menu. This screen allows users to adjust the following settings:

- **Clear app data:** deletes all app data and removes permissions;
- **Clean Bluetooth cache:** resets Bluetooth data to improve connectivity;
- **Enable consultation mode:** changes the memory clearing behavior of the DynaLogger. By default, memory is cleared after each data collection. When consultation mode is enabled, the user will be prompted to choose whether to clear memory after each collection;
- **Pending Spots alert:** enables alerts for pending Spots on the machine screen;
- **Enable auto-scan:** automatically scans listed Spots when accessing a machine;
- **Background sync:** enables automatic background data synchronization;
- **Imperial unit system:** switches to imperial measurement units;
- **Portable spectral in route:** enables shortcut for automatic request of standard spectral when accessing non-sensorized Spots with portable sensors;
- **Share database:** sends the local database to Dynamox support.



4.7 Help center

For instructions to support app usage, access the Dynamox Help Center↗.

4.8 Log out

Logs the user out of the current session and redirects to the login screen.

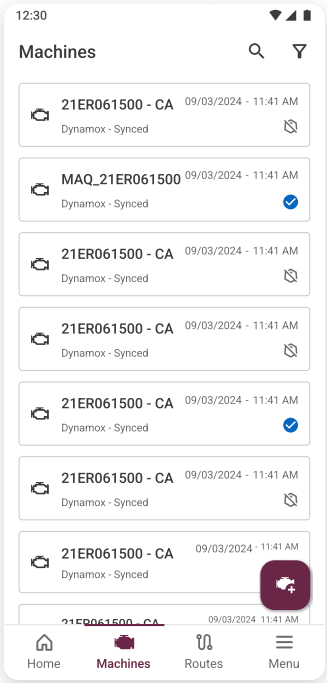
5 Machines

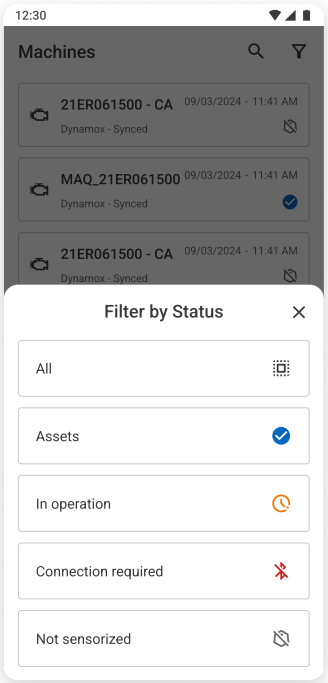
Displays machine names, creation dates, and their associated workspaces. Each machine also has a status indicator:

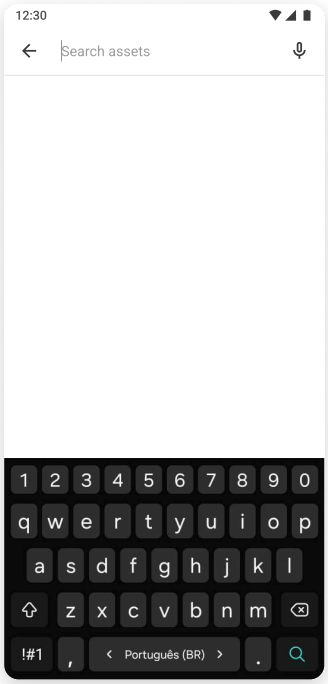
Users can search for a specific machine or filter by status.

5.1 Filter by status

- **Active:** currently being monitored via telemetry;
- **In operation:** performing an operation (for example, awaiting scheduled spectral, etc.);
- **Connection required:** needs data collection (for example, full memory, spectral completed, etc.);
- **Not sensorized:** no DynaLogger associated.





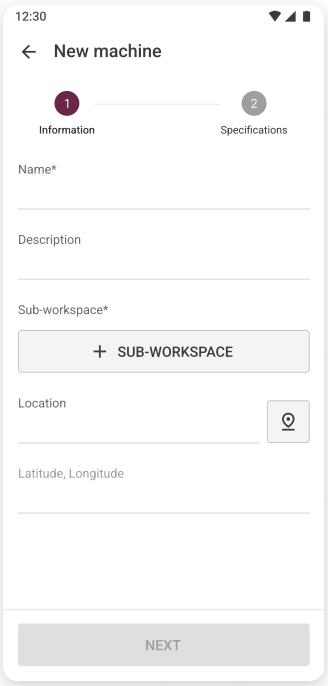


5.2 New machine

On the machine list, by clicking the floating button , the machine registration screen opens.

Required fields (* indicates mandatory):

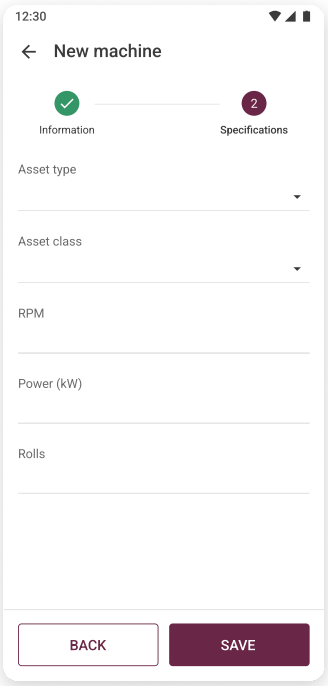
- **Name*:** used to identify the machine;
- **Description:** information about function, position, format, etc.;
- **Sub-workspace*:** defines the company workspace where the machine will be created, according to the asset tree on the Web Platform;
- **Location:** where the machine is installed. Georeferencing can be used to define the exact location;
- **Latitude, Longitude:** geographic coordinates indicating the exact location of the asset.



After selecting **Next**, located at the bottom of the screen, additional fields will appear:

- **Asset Type**
- **Asset Class**
- **RPM**
- **Power (kW)**
- **Rollers**

The app will create the machine and redirect the user to the Monitoring Points (Spots) list, where a new Spot can be registered and other machine options accessed.



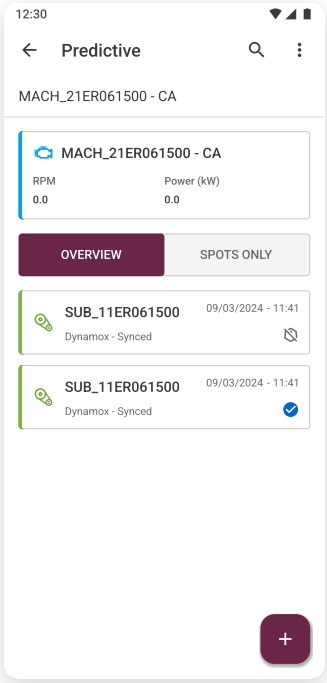
6 Machine view

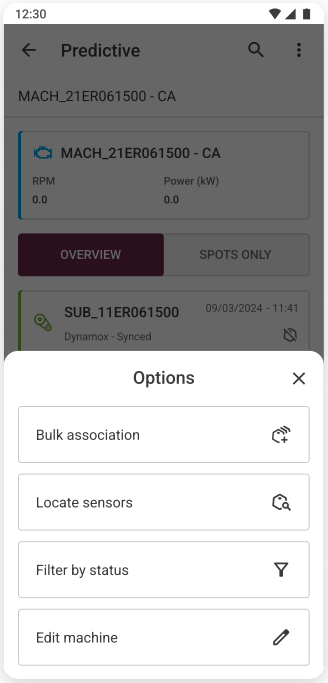
When selecting a specific machine, the list of subsystems, components, and associated Spots will be displayed.

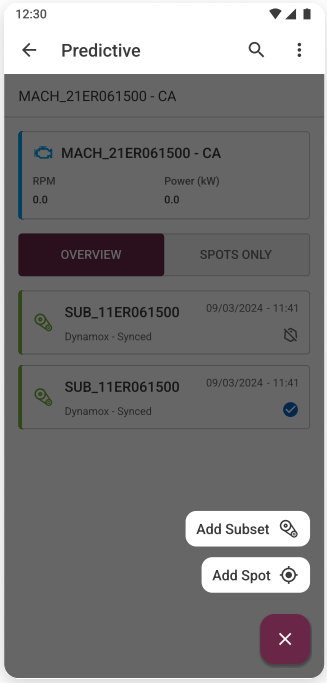
Clicking the icon ⋮ will show actions related to the machine, such as:

- **Bulk Association**
- **Locate Sensors**
- **Filter by Status**
- **Edit Machine**

By clicking the floating action button + users can add a subsystem, component, or Spot, depending on the machine level, and define their respective information and parameters.





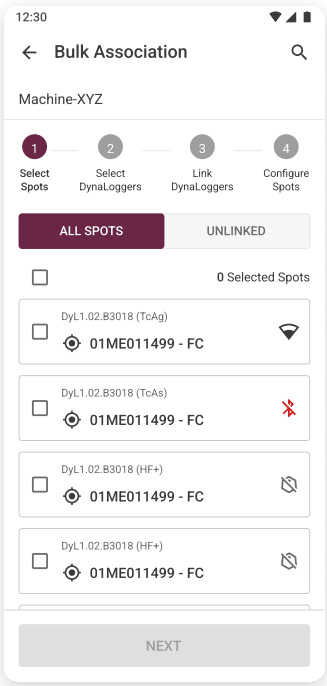


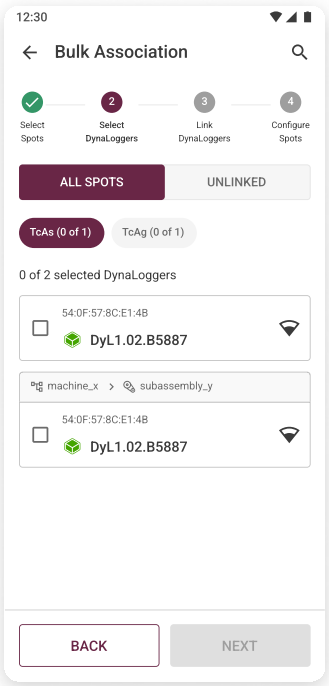
6.1 Bulk association

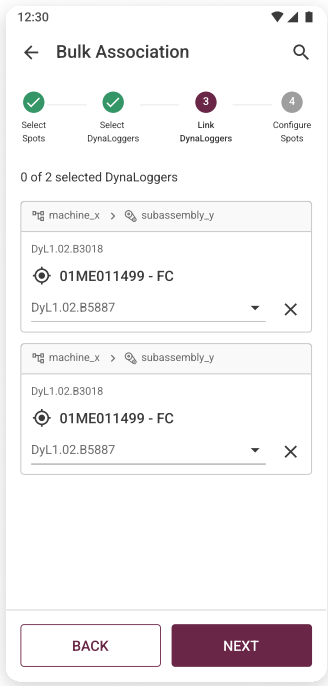
This feature allows users to associate a set of sensors with their corresponding Spots within the app.

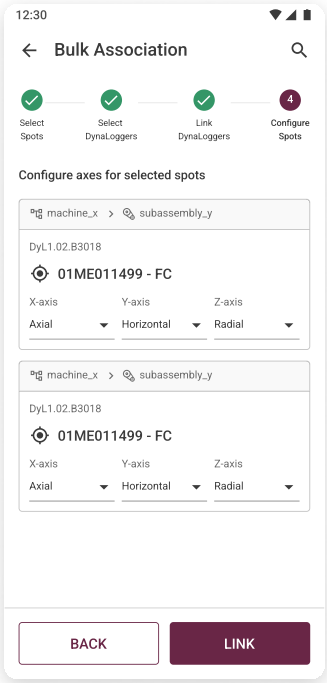
The app displays all Spots of the asset corresponding to the level from which the functionality was accessed. After selecting the desired Spots, the user must choose the same number of sensors to proceed. You can only proceed to the next step if the number of selected sensors matches the number of previously defined Spots.

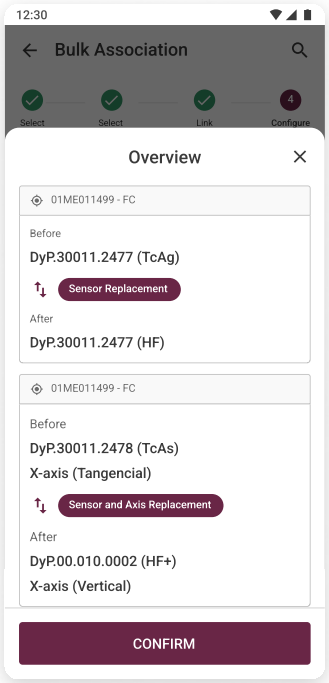
Users may optionally adjust the axis configuration for the selected Spots. By default, the app will display the axis settings defined when the Spot was created, either via the web platform or the app. Once the associations are confirmed in the summary screen, the app will connect to the sensors to complete the association process.













7 Spot

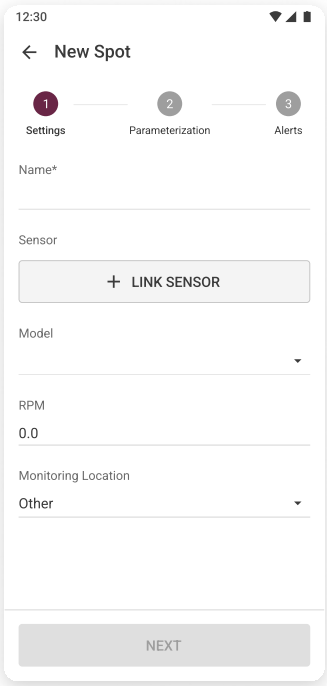
7.1 New spot

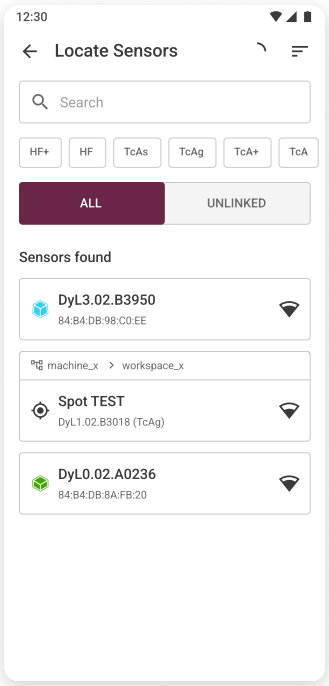
On the machine screen, clicking the floating action button + opens the Spot registration screen. The user must name the Spot and then associate a DynaLogger by clicking **Associate Sensor**. A list of DynaLoggers within Bluetooth range will be displayed.

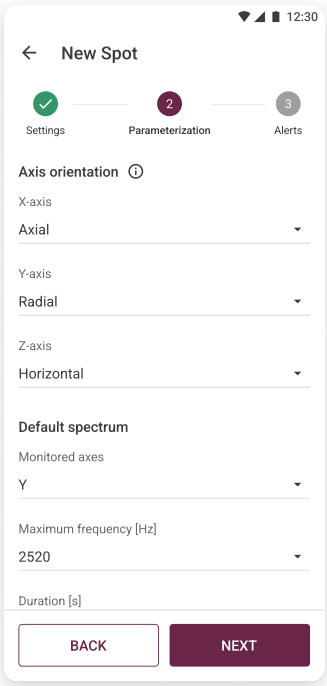
The sensor model will be automatically detected (HF+, HF, TcAs, TcAg, TcA+, TcA, AS, RE, DynaPortable).

After selecting the desired DynaLogger, the user must configure the Spot by setting the following parameters:

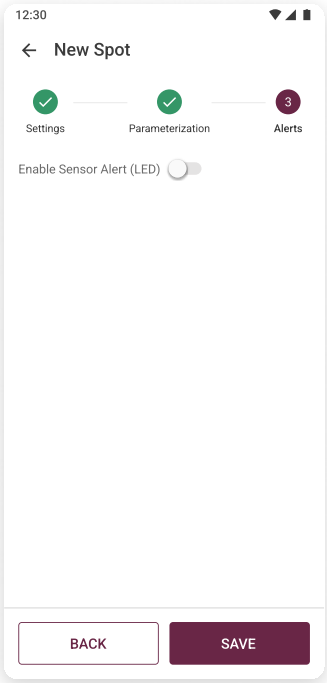
- **Axis orientation**
- **Default spectral configuration**
- **Telemetry**
- **Alerts**

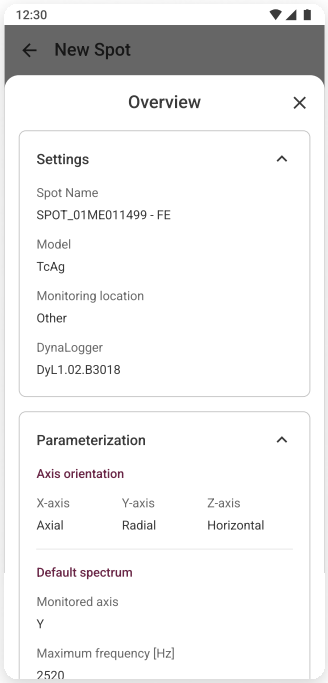






Once configuration is complete, the user must save the changes.





8 Data collection

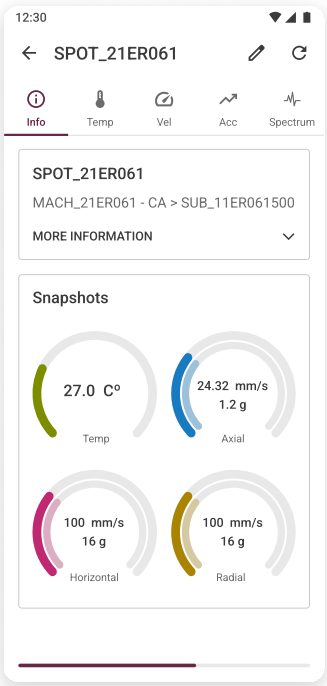
8.1 Telemetry

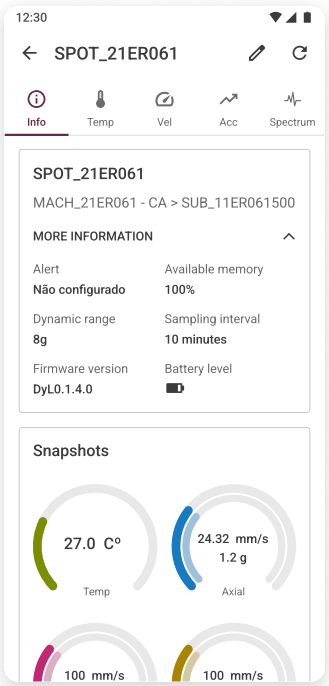
When a Spot is selected, the app connects to the sensor to begin data collection.

The presentation screen provides access to **Instant Reading**, displaying real-time temperature and vibration values across three axes. If alerts are configured, the graph colors will reflect the alert status: Green -> no alert triggered; Yellow -> Alert Level A1 exceeded; Red -> Alert Level A2 exceeded.

Additional information includes battery level, alert status, and available memory. Users can also view detailed information about the associated DynaLogger, such as serial number, sampling interval, and more.

Spectral analyses can be requested via the **Spectral** tab (explained in the next section), along with the Temp, Vel, and Acc tabs.

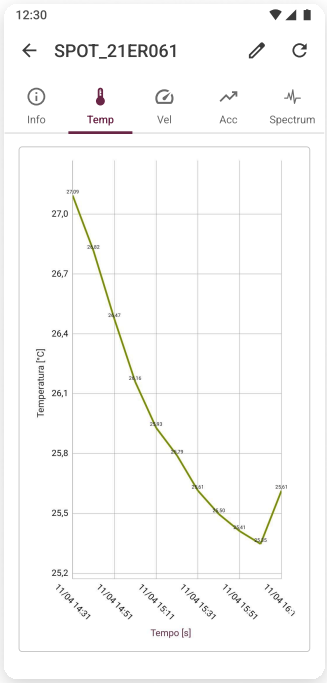


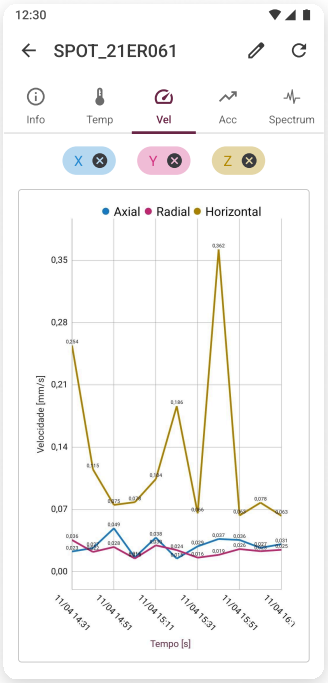


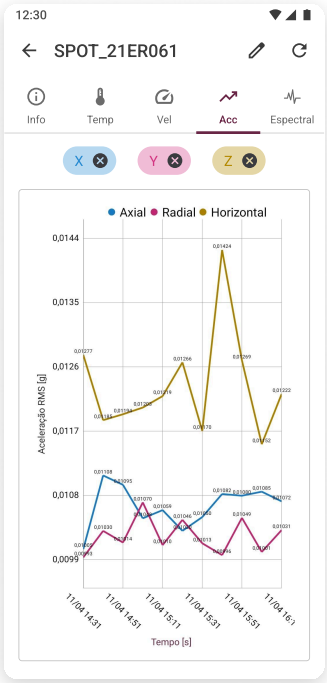
8.2 Temperature, speed, and acceleration

These tabs display the most recent data collected by the DynaLogger: Temp -> temperature; Vel -> RMS velocity; Acc -> RMS acceleration (when available).

It's important to note that collecting data from the DynaLogger clears its memory, making room for new collections.





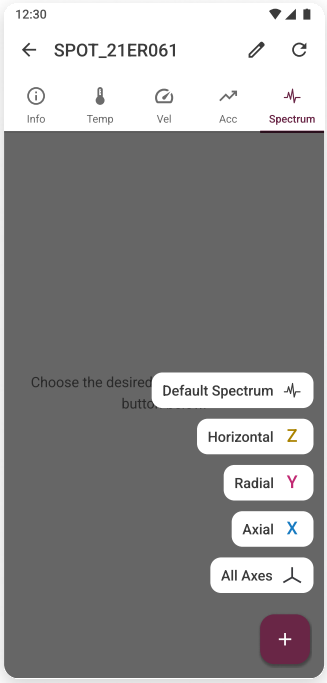


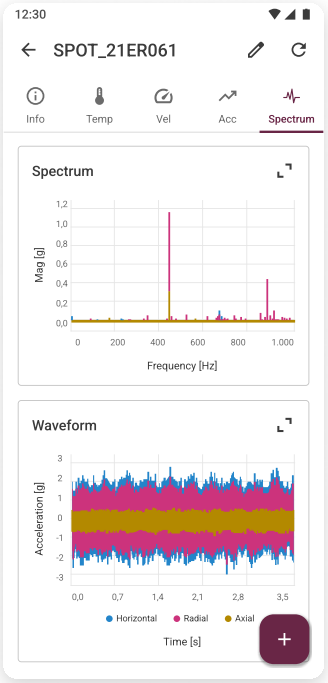
8.3 Spectral analysis

The **Spectral** tab allows the user to request a spectral analysis from the DynaLogger. This analysis can be performed on a specific axis or on all three axes simultaneously.

A spectral analysis can be requested via the floating action button + .

The user must select the available axes for the spectral. Once completed, two graphs will be displayed: Frequency spectrum and Time waveform.





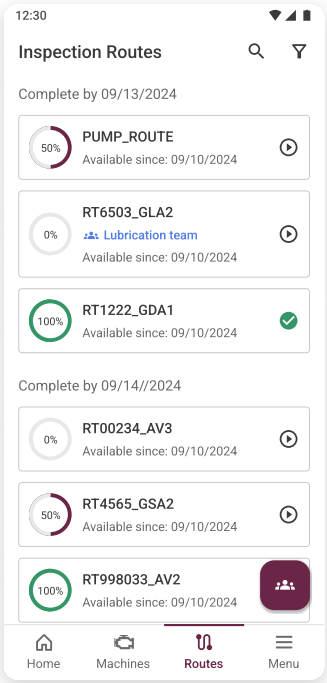
9 Inspection routes

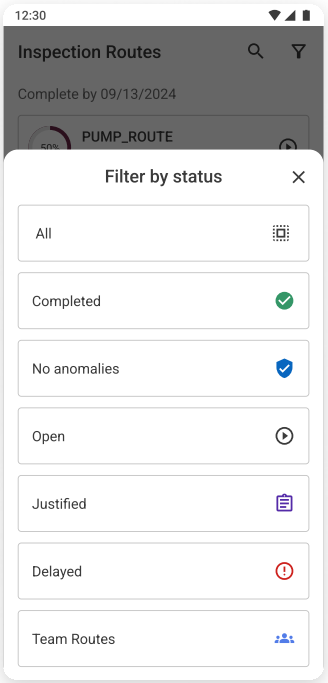
The Sensitive Module is available for customers with DynaSens enabled. Upon accessing it, the user will see inspection routes with active cycles for which they are the primary responsible.

Users can search for a specific route by name or filter by route status.

9.1 Filter by status

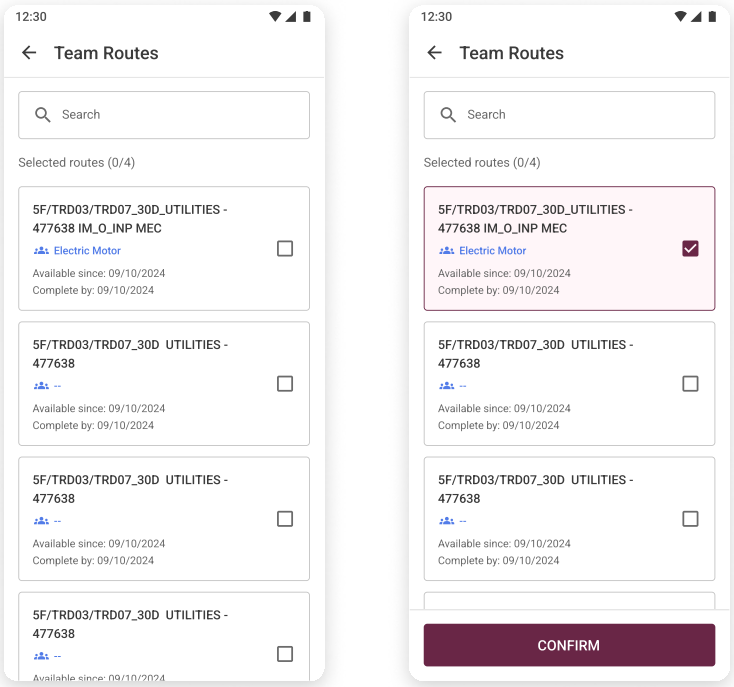
- **All:** all routes assigned to the user;
- **Completed:** all checklists and Spots completed;
- **No Anomalies:** routes which all checklists are marked with no anomalies;
- **Open:** at least one item not completed before the ideal execution time;
- **Justified:** all checklists and Spots justified (not executed due to external reasons);
- **Overdue:** at least one item not completed after the ideal execution time;
- **Team Routes:** routes assumed from the user's team.





9.2 Team routes

If a user needs to execute a route from their team but is not the primary responsible, they can access it via the Team button. Available cycles will be listed with start and end dates. The user can search, select, and confirm the routes they wish to assume.

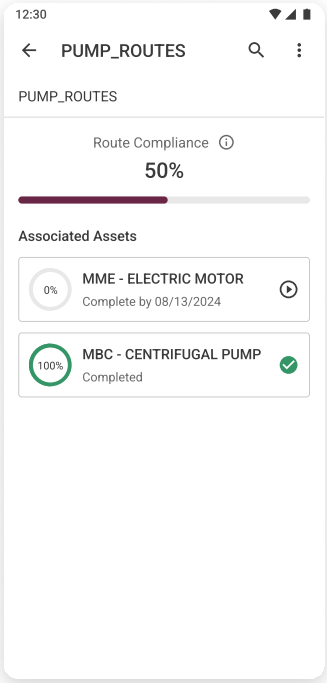


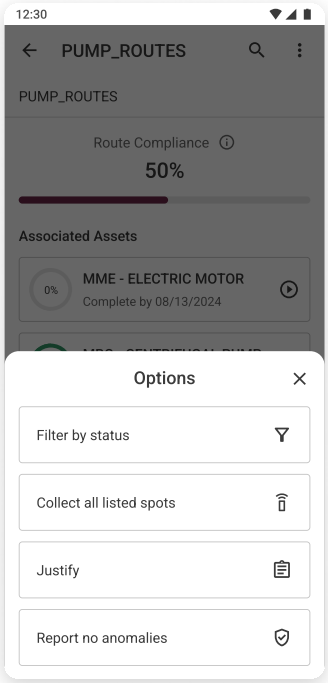
10 Route view

Upon selecting a route, the user can track execution adherence and view the assets included.

By clicking the icon ⋮, the user can:

- **Filter by status:** all, completed, no anomalies, open, justified, overdue, or paused;
- **Collect all listed Spots:** collect data from all Spots in the route;
- **Justify:** provide a reason for not executing any listed asset;
- **Mark no anomalies:** respond to all checklists with no anomalies.

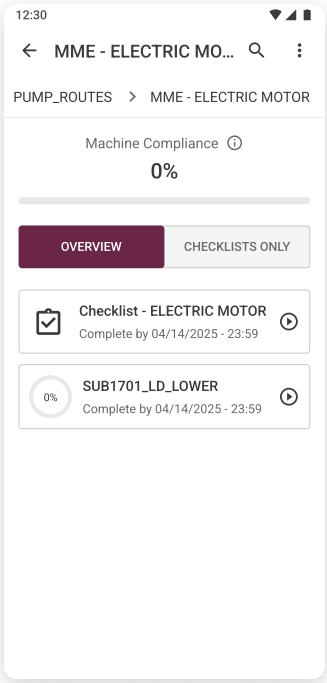


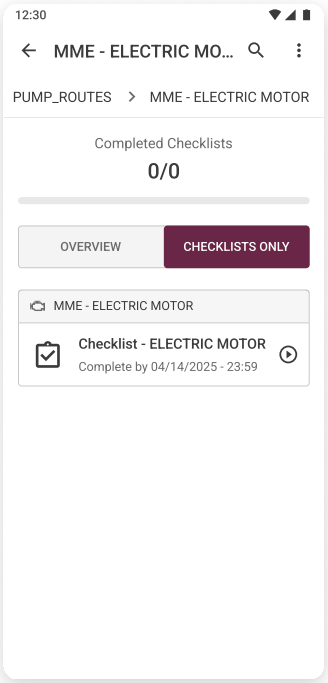


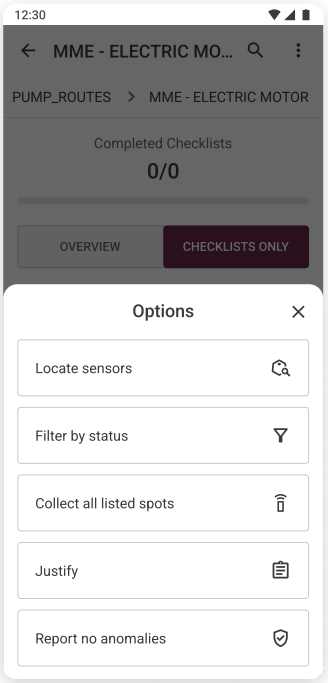
10.1 Machine and associated checklists

Users can navigate through machines, subsystems, components, checklists, and Spots to perform inspections.

The **Checklists only** option automatically advances to the next checklist after completing the current one.





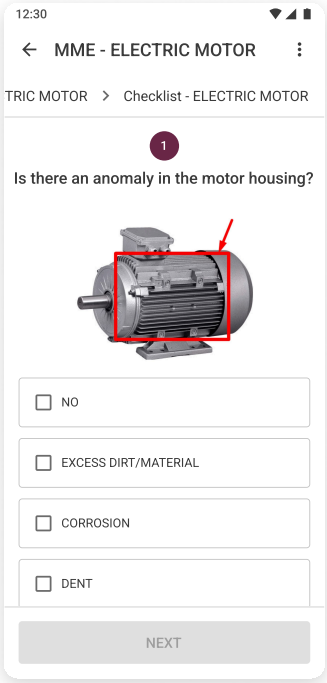


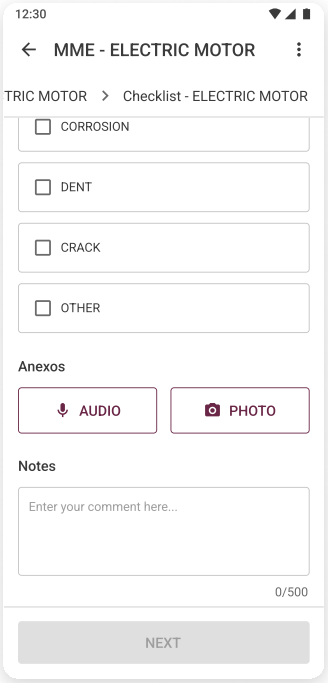
11 Checklist

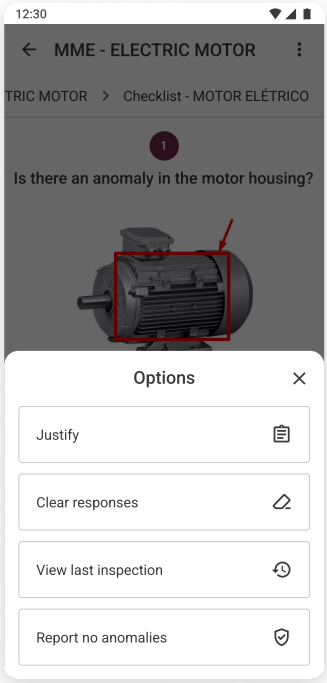
When a checklist is selected, the user is guided through the questions and answer options related to the asset inspection.

By clicking the icon ⋮ the user can:

- **Justify:** explain why a checklist could not be completed;
- **Clear responses:** reset all current answers;
- **View last inspection:** access the previous checklist response;
- **Mark no anomalies:** indicate no anomalies for all questions.

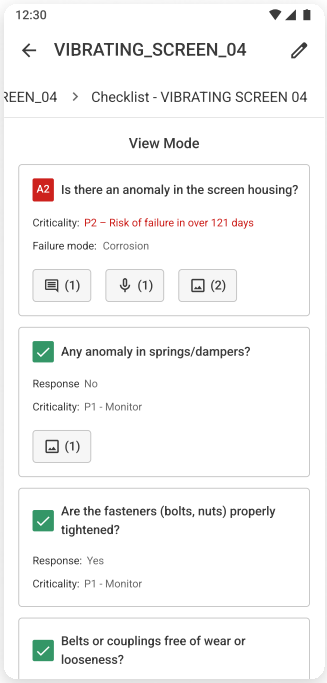






11.1 View mode

After completing a checklist, the user can view a summary in View Mode. Until the data is synchronized with the platform, the user can still edit the responses.

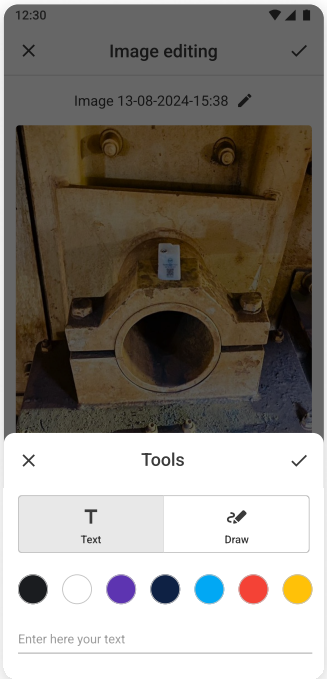


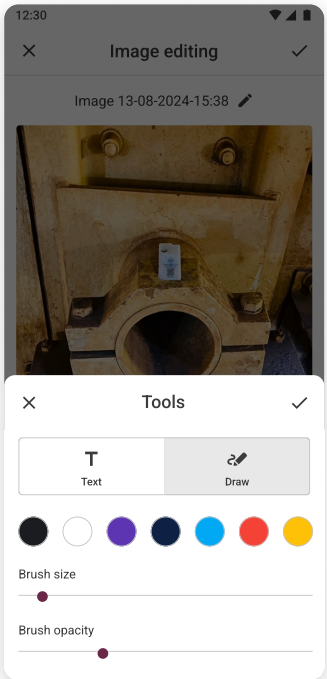


11.2 Image editing

When adding an image to a checklist, the user can use editing tools to highlight identified issues. Available tools include drawing on the image, adding text, cropping and rotating.







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