



Technical Bulletin 249 03.2025

Contents

Item	Subject	Model Affected
249.1	Triumph Diagnostic Tool - New Smart Scan Download Feature - Calibration Option Selection	All
249.2	Triumph Diagnostic Tool - New Smart Scan Feature - Autoscan	All

Item: 249.1

Description: Triumph Diagnostic Tool - New Smart Scan Download Feature - Calibration Option Selection

Model Affected: All

We would like to inform dealers of the addition of a new Calibration Option Selection feature in the Smart Scan - Download area of the Triumph Diagnostic Tool (TDT).

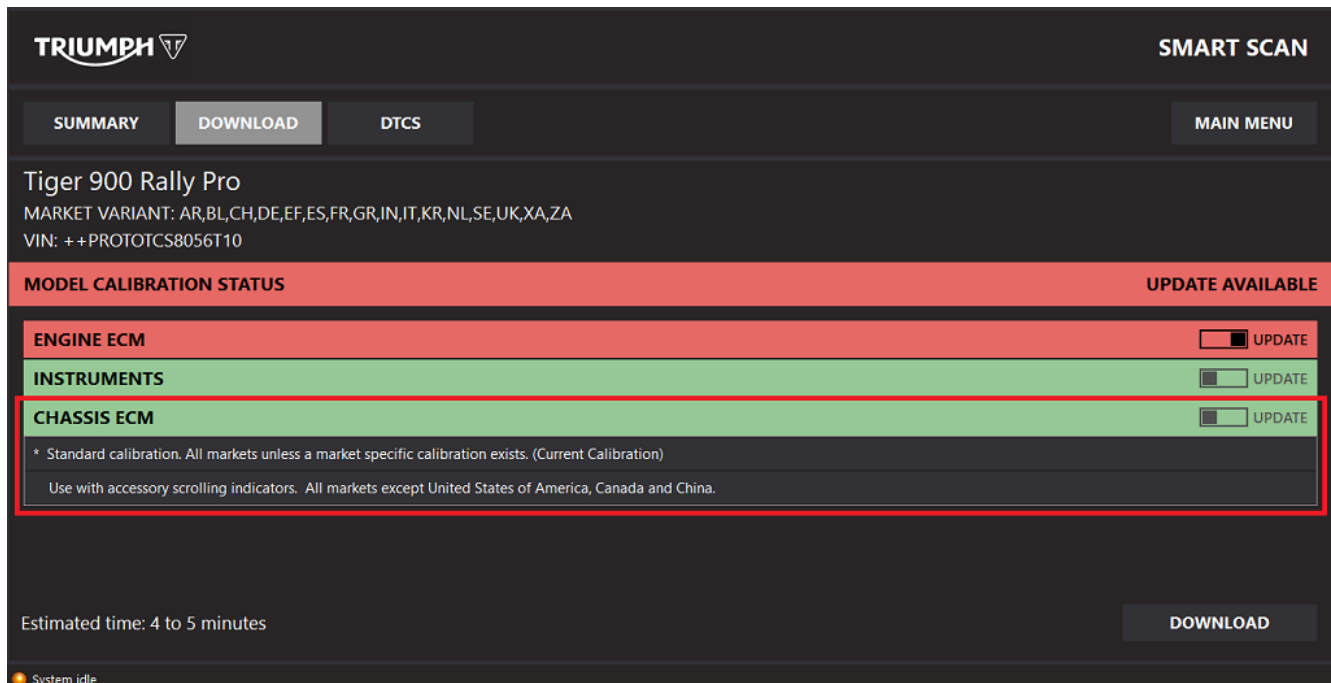
The new feature will be available from TDT version 2025-04, and will improve the method of selecting and managing calibration options for the following:

- Accessory calibrations (such as Chassis ECM calibrations for use with accessory scrolling indicators)
- Hardware part number based calibrations (such as Instrument or Headlight calibrations for use with specific base part numbers).

Smart Scan Download Screen

When viewing the Smart Scan Download screen, any calibration options available for selection will be listed below the ECM to which they apply.

Each calibration option will contain a description of the calibration and its intended use.



The above image shows an example of 'Standard' and 'Accessory Scrolling Indicator' calibration options available for the Chassis ECM on a Tiger 900 model.

The currently installed calibration option is indicated by a * symbol, and the text "Current Calibration".

NOTICE

Where multiple calibration options are available, Smart Scan 'Summary' and 'Autoscan' reports will provide a calibration status report based on the currently installed calibration option.

To select a calibration option for download:

1. Read the descriptions of the calibration options available.
2. Click on the calibration option required.
3. The calibration selected will be highlighted in blue, and the toggle switch on the associated ECM will automatically switch to the Update position.

TRIUMPH SMART SCAN

SUMMARY DOWNLOAD DTCS MAIN MENU

Tiger 900 Rally Pro
MARKET VARIANT: AR,BL,CH,DE,EF,ES,FR,GR,IN,IT,KR,NL,SE,UK,XA,ZA
VIN: ++PROT0CS8056T10

MODEL CALIBRATION STATUS UPDATE AVAILABLE

ENGINE ECM	<input checked="" type="checkbox"/> UPDATE
INSTRUMENTS	<input type="checkbox"/> UPDATE
CHASSIS ECM	<input type="checkbox"/> UPDATE

* Standard calibration. All markets unless a market specific calibration exists. (Current Calibration)

Use with accessory scrolling indicators. All markets except United States of America, Canada and China.

Estimated time: 4.5 to 6 minutes DOWNLOAD

System idle

4. Click the **Download** button to start the download process as normal.

Accessory Calibrations

WARNING

Accessory calibrations must only be downloaded when used in conjunction with their associated accessory kit.

Downloading an accessory calibration without also installing the associated accessory kit may cause motorcycle electronic systems to function incorrectly.

This can cause an unsafe riding condition which could lead to an accident resulting in injury or death.

The new Calibration Option System improves management of accessory calibrations and allows the Smart Scan model selection/confirmation screens to be simplified.

For models effected:

- Accessory information will be removed from Model Descriptions where previously used.
- The list of model/market variants available for selection will be reduced.

Where available, accessory calibrations will be available for download alongside the standard production calibration.

Hardware Part Number Based Calibration Options

The new Calibration Option System improves management of hardware part number based calibrations and allows the Smart Scan model selection/confirmation screens to be simplified.

For models effected:

- Hardware Part number information will be removed from Model Descriptions where previously used.
- The list of model/market variants available for selection will be reduced.

The system will retain the ability to automatically detect the part number of fitted hardware where multiple calibration options are available for different part numbers.

- If the hardware part number is successfully detected, the tool will automatically allocate the correct calibration and no calibration options will be available on the Download screen.
- If the tool is unable to detect the hardware part number for any reason (for example, a previous download was interrupted and the ECM is reported as not connected), the Download page will list the part number based calibration options available.

NOTICE

If the tool is unable to detect a part number and multiple part number based calibration options are available, the correct calibration must be selected based on the part number visible on the actual component.

TRIUMPH SMART SCAN

SUMMARY DOWNLOAD DTCS MAIN MENU

Tiger 1200 Rally Explorer
MARKET VARIANT: UK
VIN: ++PROTOTHG8011P20

MODEL CALIBRATION STATUS	ISSUES DETECTED
IMMOBILISER/KEYLESS ECM	UPDATE
CHASSIS ECM	UPDATE
SUSPENSION ECM	UPDATE
HEADLIGHT ECM - Not Connected	UPDATE

All markets unless a market specific calibration exists. Use with Headlight base part number 2701239.
All markets unless a market specific calibration exists. Use with Headlight base part number 2701440.

Estimated time: 4.5 to 6 minutes DOWNLOAD

System idle

Main Menu Download Area

The calibration option selection feature will also be available in the Main Menu Download area for models supported by Smart Scan.

Where available, calibration options will be listed on the pre download ECM Status Summary screen.

NOTICE

Where multiple calibration options are available, the ECM Status Summary details displayed will be based on the currently installed calibration option.

Tiger 900 Rally Pro

MARKET VARIANT: AR,BL,CH,DE,EF,ES,FR,GR,IN,IT,KR,NL,SE,UK,XA,ZA

VIN: ++PROTOTCS8056T10

ECM STATUS SUMMARY:

UPDATE NOT REQUIRED

CHASSIS ECM ✓

CALIBRATION OPTIONS

* Standard calibration. All markets unless a market specific calibration exists. (Current Calibration)

Use with accessory scrolling indicators. All markets except United States of America, Canada and China.

The Chassis ECM calibration is up to date. Press Cancel to Exit, or press Start to reprogram the Chassis ECM calibration.

CANCEL

**RECOVERY
DOWNLOAD**

START

 System idle

Item: 249.2

Description: Triumph Diagnostic Tool - New Smart Scan Feature - Autoscans

Model Affected: All

We would like to inform dealers of the addition of a new Autoscans feature within the Smart Scan area of the Triumph diagnostic Tool (TDT).

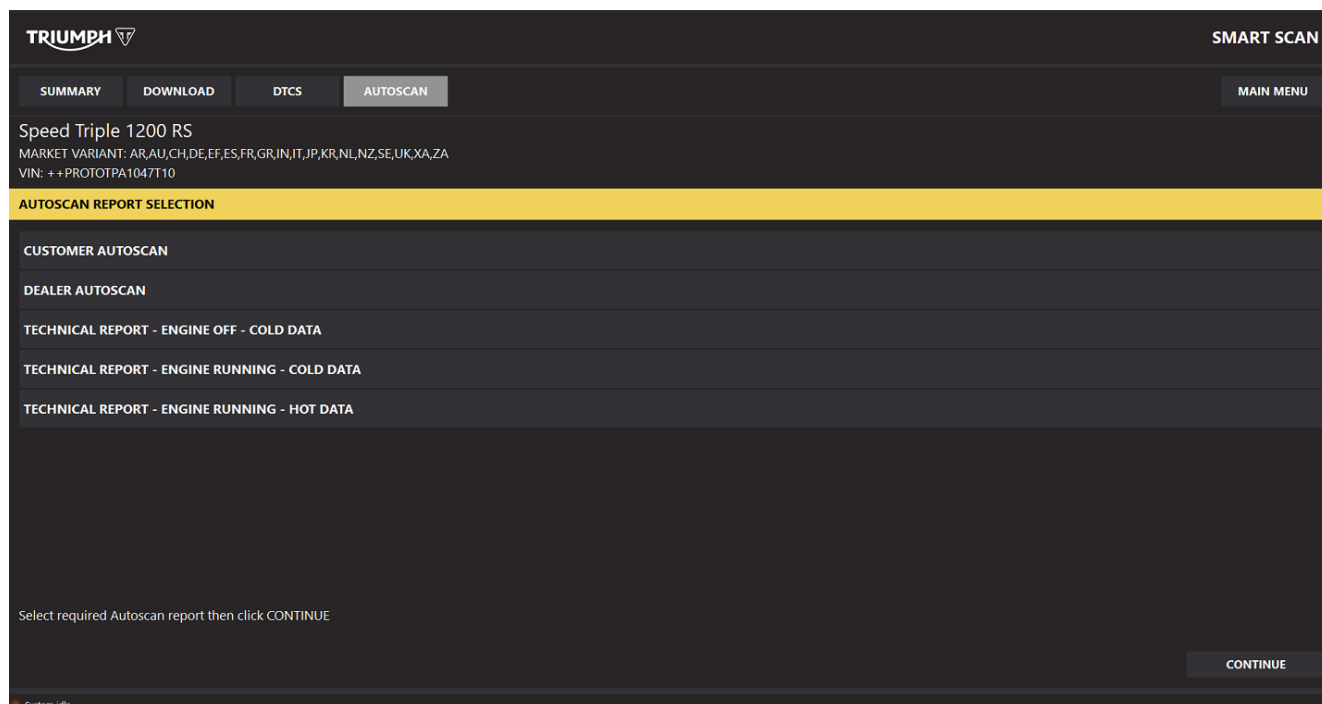
The new feature will be available from TDT version 2025-04 onwards, and will provide new Autoscans and Technical Reporting capabilities for models supported by Smart Scan.

When performing a Smart Scan on a supported motorcycle, a new Autoscans button will be available in the top navigation menu.

An overview of the new feature is provided below:

Autoscans Screen

Upon clicking the **Autoscans** button, the Autoscans Report Selection screen is displayed.



From this page, it is possible to select from a list of Autoscans report types. The reports available are:

- Customer Autoscans**
- Dealer Autoscans
- Technical Report - Engine Off - Cold Data
- Technical Report - Engine Running - Cold Data
- Technical Report - Engine Running - Hot Data.

NOTICE

** The Customer Autoscans Option will not be available for the following models until further notice.
- Speed Triple 1200 RS and Speed Triple 1200 RR models (all VINs).
- Tiger 1200 GT/Rally models up to VIN CA6405.

Each report provides a guided data collection workflow which is customised to the motorcycle model identified in Smart Scan.

When each report has completed, the results of the report are automatically saved, and an option is provided to print a PDF copy of the report in your selected language.

Previously saved reports can be accessed from the Reports Menu provided in the Main Menu area.

To Start a Report

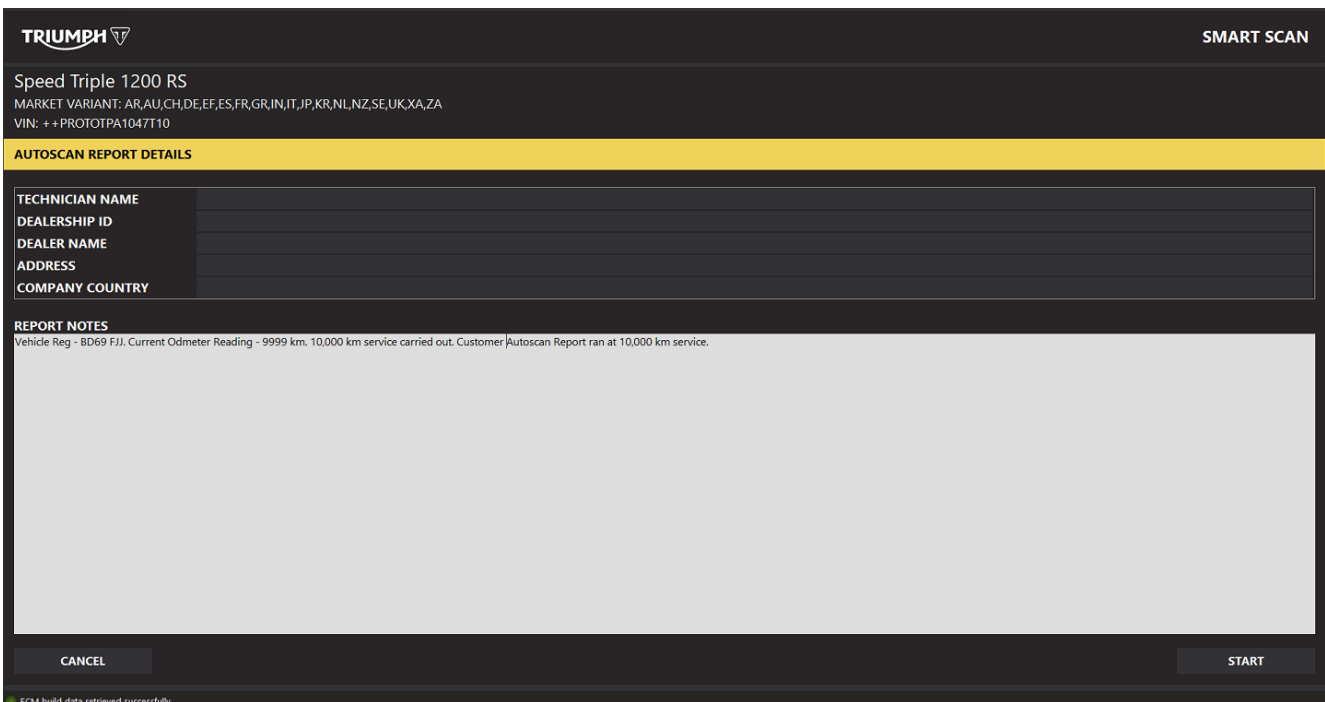
WARNING

Exhaust fumes are poisonous, always operate a motorcycle in the open-air or in an area with adequate ventilation.

Do not operate a motorcycle in an enclosed area without adequate ventilation.

Operating a motorcycle in an enclosed area without adequate ventilation can cause loss of consciousness and death within a short period of time.

1. Select the desired report from the list.
2. Click the **Continue** button to start the selected report.
3. Upon clicking Continue, the Autoscan Report Details page will be displayed.

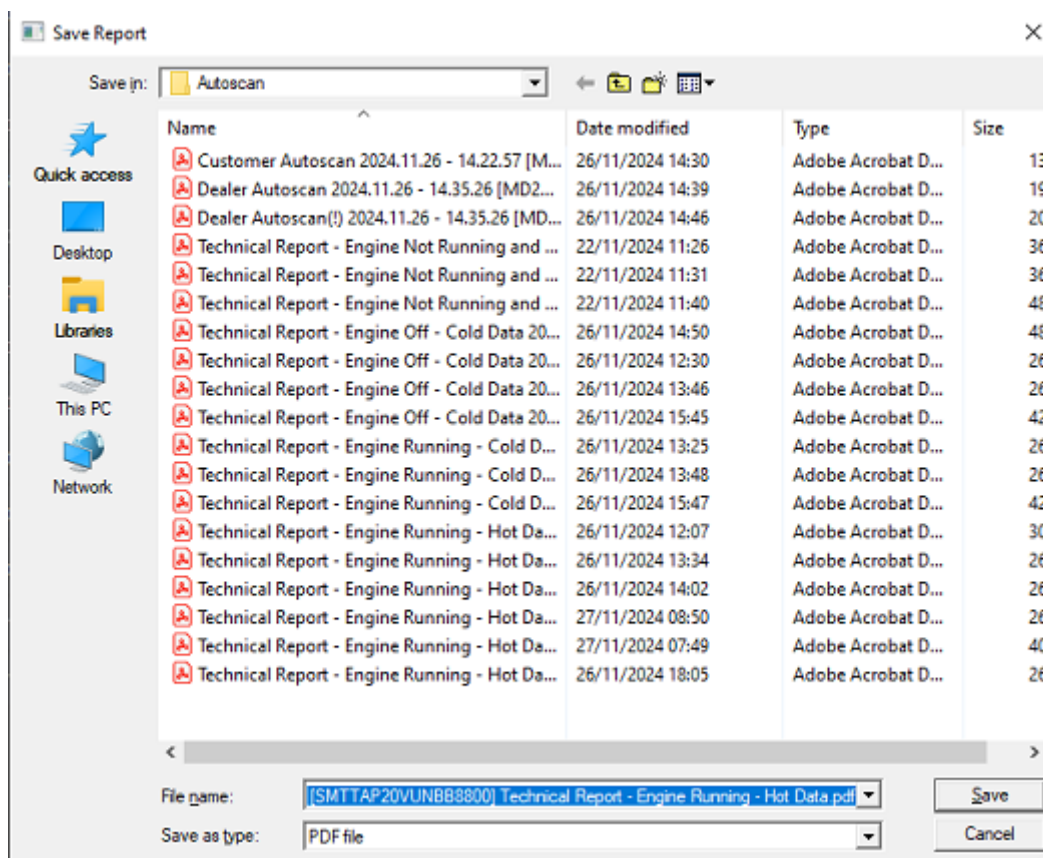


4. Details of the user and dealership ID will be automatically populated based on the user that is logged in. These details will be included on any reports printed.
5. This page also provides a Report Notes area. From here it is possible to enter any notes regarding the motorcycle you are working on. As an example, this could be used to record:
 - The vehicle registration plate number.
 - The odometer reading.
 - Details of when the next service is due.
 - Details of any issues or symptoms observed or reported by the customer.
 - Details of any work completed or remedial actions taken.
6. Once you have entered the required notes, Click **Start** to begin the report, or click **Cancel** to return to the Autoscan Report Selection screen.
7. Upon clicking Start, the guided data collection workflow will begin. Follow all onscreen instructions during the process.
8. When the data collection workflow has completed:
 - Use the **Print** button to print and save a PDF copy of the report.
 - Use the **Finish** button to complete the process and return to the Autoscan Report Selection screen.

NOTICE

Each report is automatically stored regardless of whether the Print button is used to generate a PDF copy.

9. If the Print button is clicked, the Save Report window is displayed.



NOTICE

PDF report files are saved to the following location by default.
C:\ProgramData\Triumph Diagnostics Data\SmartScan\Autoscan

10. Click Save to generate and save the report PDF in the default location.
11. Alternatively, use the Windows file name editor and folder navigation tools to rename the file and choose a save location as required.
12. Upon clicking Save, the report will be opened in your chosen PDF viewer.

Overview - Customer and Dealer Autoscan Reports

The Customer and Dealer Autoscan reports perform a guided suite of system checks that are tailored to the connected motorcycle. When all checks are complete a PDF report can be generated.

Customer Autoscan Report

This feature allows you to perform the Autoscan system checks and produce a simplified customer facing Autoscan report which includes:

- Model and Report Details.
- A simplified DTC Summary.
- A simplified summary of the Autoscan checks performed.

Dealer Autoscan

This feature allows you to perform the Autoscan system checks and produce a detailed dealer facing Autoscan Report. The Dealer report includes:

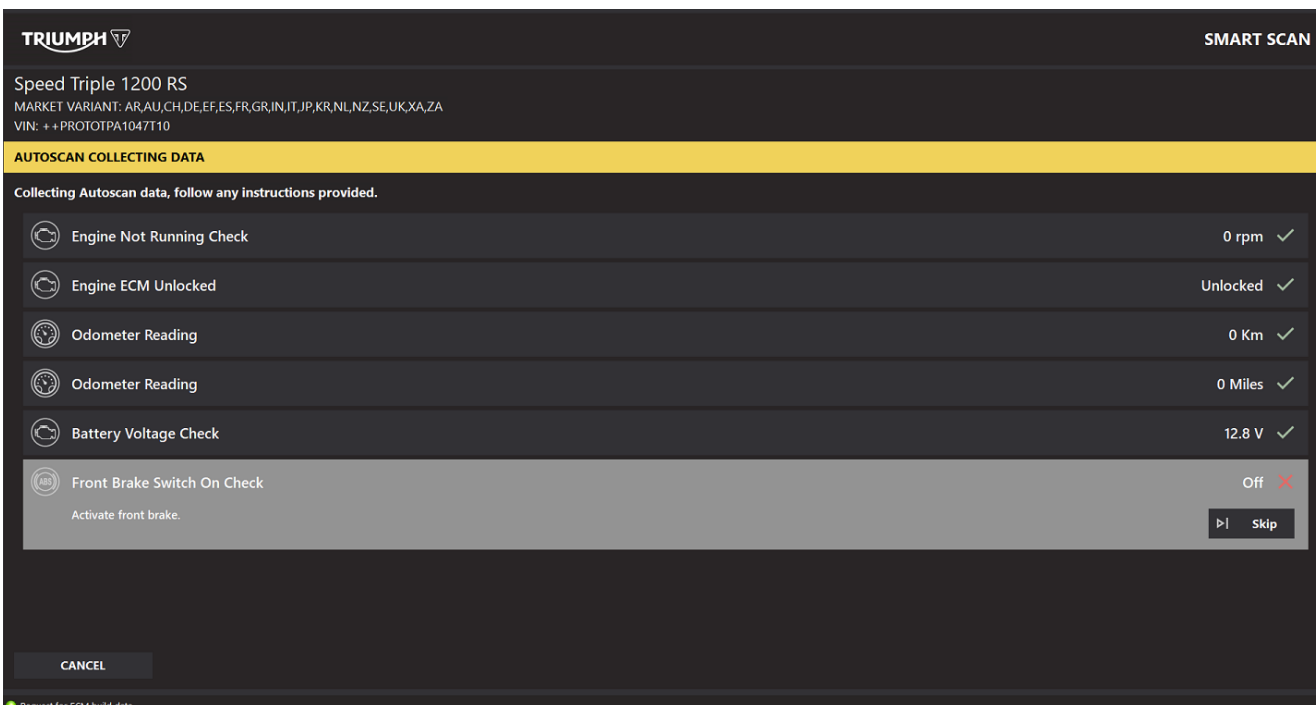
- Model and Report Details.
- A detailed Calibration Report.
- A detailed DTC Report.
- A detailed list of all Autoscan checks performed along with their reading and result.

Running the Autoscan Reports

NOTICE

Both Autoscan reports require the engine to be started and warmed up until the radiator cooling fan turns On.

The Customer and Dealer Autoscan Reports both follow an identical guided data collection workflow. The workflow will perform a series of checks and provide a Pass/Fail/Untested status for each check. The Pass/Fail status is reported based on predefined pass/fail criteria.



The list of check items performed is customised to the motorcycle model identified by Smart Scan. A description of the check, its data reading and a check result icon are displayed for each item.

NOTICE

Always carefully follow onscreen instructions. Certain checks provided in the workflow will require user interactions such as:

- Operate a motorcycle switch, lever or pedal.
- Visually observe a system and manually confirm the Pass/Fail Status.
- Skip an optional test that is not required or a test that cannot be performed.

Other checks may require you to wait for certain conditions to be met, such as wait for the engine to reach normal running temperature.

You will be prompted by onscreen instructions when user input is required to complete a check.



When instructed to operate motorcycle switches, Levers or Pedals, the tool will typically automatically detect when the item is operated, and will automatically progress to the next check.

Certain checks may also present buttons that you may be required to click to continue. These can include:

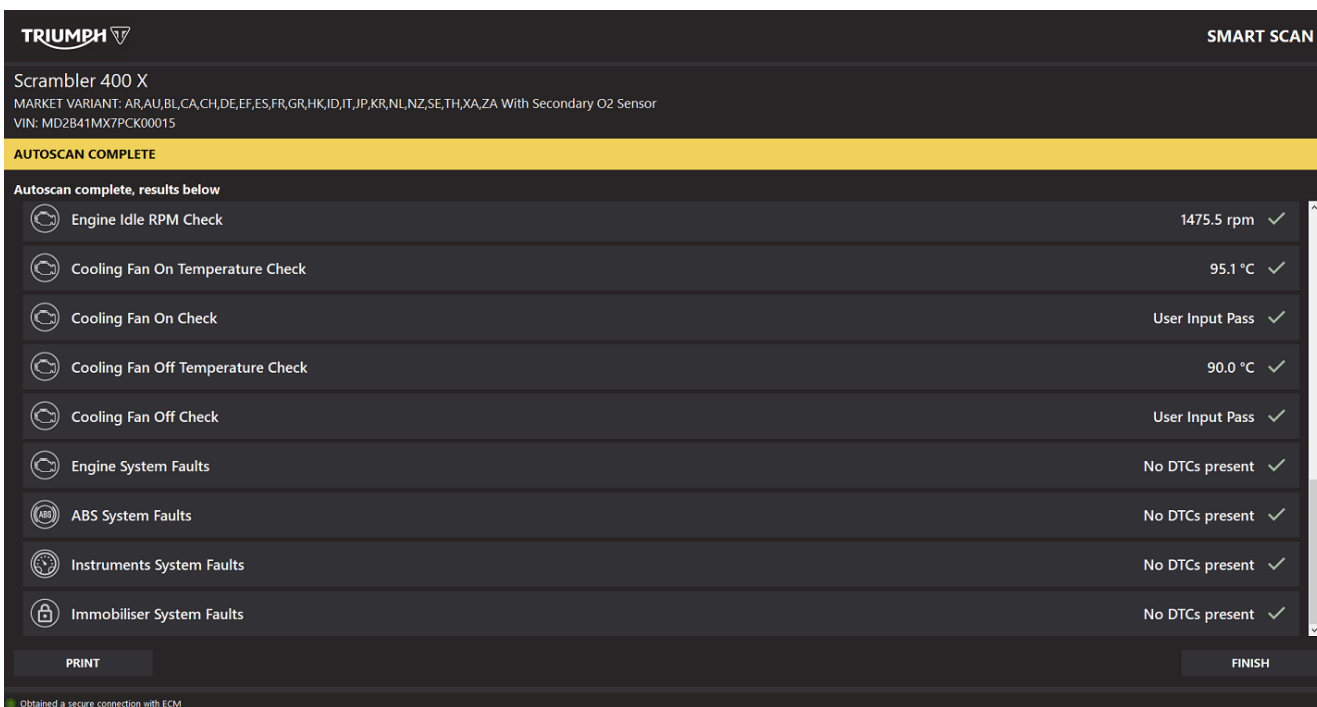
- Pass
- Fail
- Skip.

NOTICE

If the Skip button is used, the item being skipped will be reported as not tested.

When all checks are complete:

- Use the **Print** button to print and save a PDF copy of the report.
- Use the **Finish** button to complete the process and return to the Autoscan Report Selection screen.



Overview - Technical Reports

The Autoscan Technical Reports allow users to capture a snapshot of motorcycle Live Data from all motorcycle ECMs.

Three Technical Reports have been provided to allow Live Data snapshots to be captured at the following reference points:

- Engine Off - Cold Data (engine coolant temperature < 50°C)
- Engine Running - Cold Data (engine coolant temperature < 50°C)
- Engine Running - Hot Data (engine at normal operating temperature). This is typically a coolant temperature of 90°C, but may vary on certain models.

NOTICE

It is not possible to capture diagnostic Live Data from some instrument types while the engine is running. These include single and twin dial analogue/LCD instruments and first and second generation TFT instruments.

Report Contents

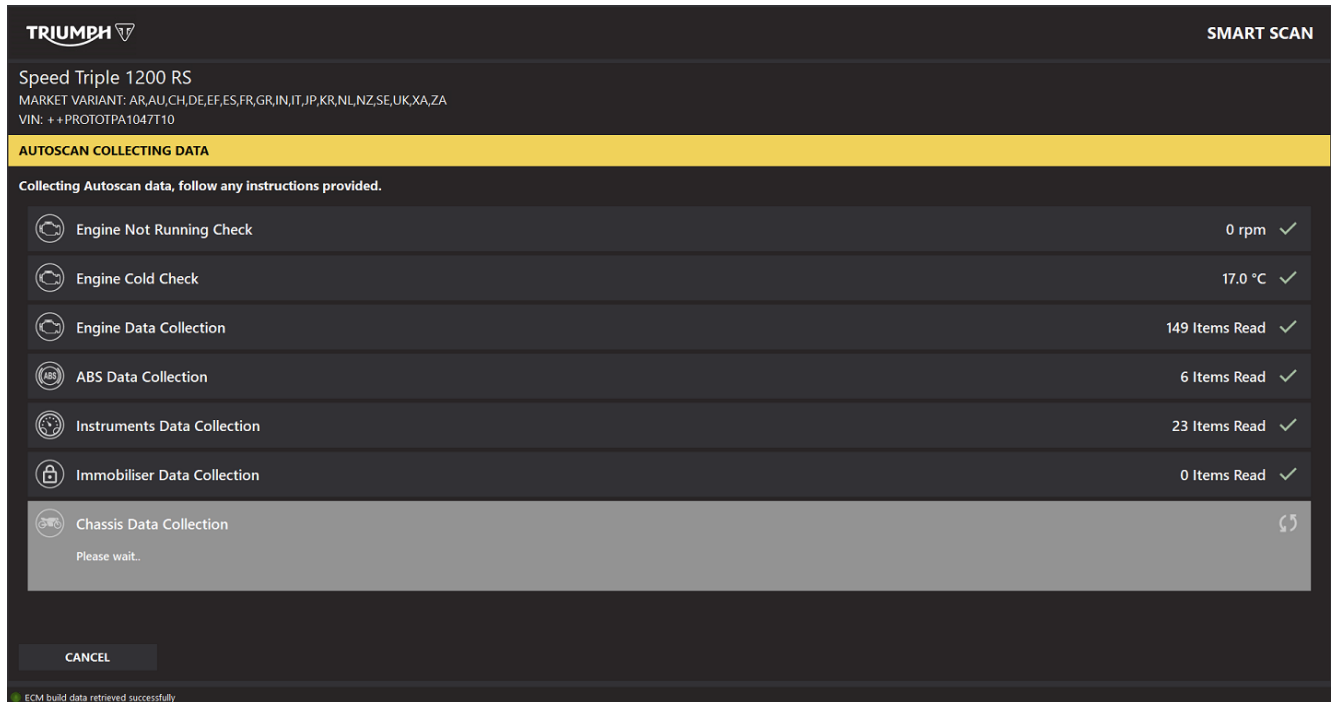
The Technical Reports include:

- Motorcycle and Report Details.
- A detailed Calibration Report.
- A detailed DTC Report.
- A detailed list of all Live Data item readings from each ECM.

Running the Technical Reports

The Technical Reports all follow an identical data collection workflow.

Each report will wait for the conditions outlined in the reference points above to be met before capturing data.



The data captured is customised to the motorcycle model identified by Smart Scan.

No user interaction is required during the data capture process, and the report is automatically stored when data capture is complete.

When the data collection workflow has completed:

- Use the **Print** button to print and save a PDF copy of the report.
- Use the **Finish** button to complete the process and return to the Autoscan Report Selection screen.

TRIUMPH SMART SCAN

Speed Triple 1200 RS
MARKET VARIANT: AR,AU,CH,DE,EF,ES,FR,GR,IN,IT,JP,KR,NL,NZ,SE,UK,XA,ZA
VIN: ++PROTOTPA1047T10

AUTOSCAN COMPLETE

Autoscan complete, results below

ABS Data Collection	6 Items Read ✓
Instruments Data Collection	23 Items Read ✓
Immobiliser Data Collection	0 Items Read ✓
Chassis Data Collection	47 Items Read ✓
Engine System Faults	2 DTCs Present ✗
ABS System Faults	No DTCs present ✓
Instruments System Faults	No DTCs present ✓
Immobiliser System Faults	No DTCs present ✓
Chassis System Faults	No DTCs present ✓

PRINT **FINISH**

ECM build data retrieved successfully

All Live Data readings captured are displayed in the printed PDF report.

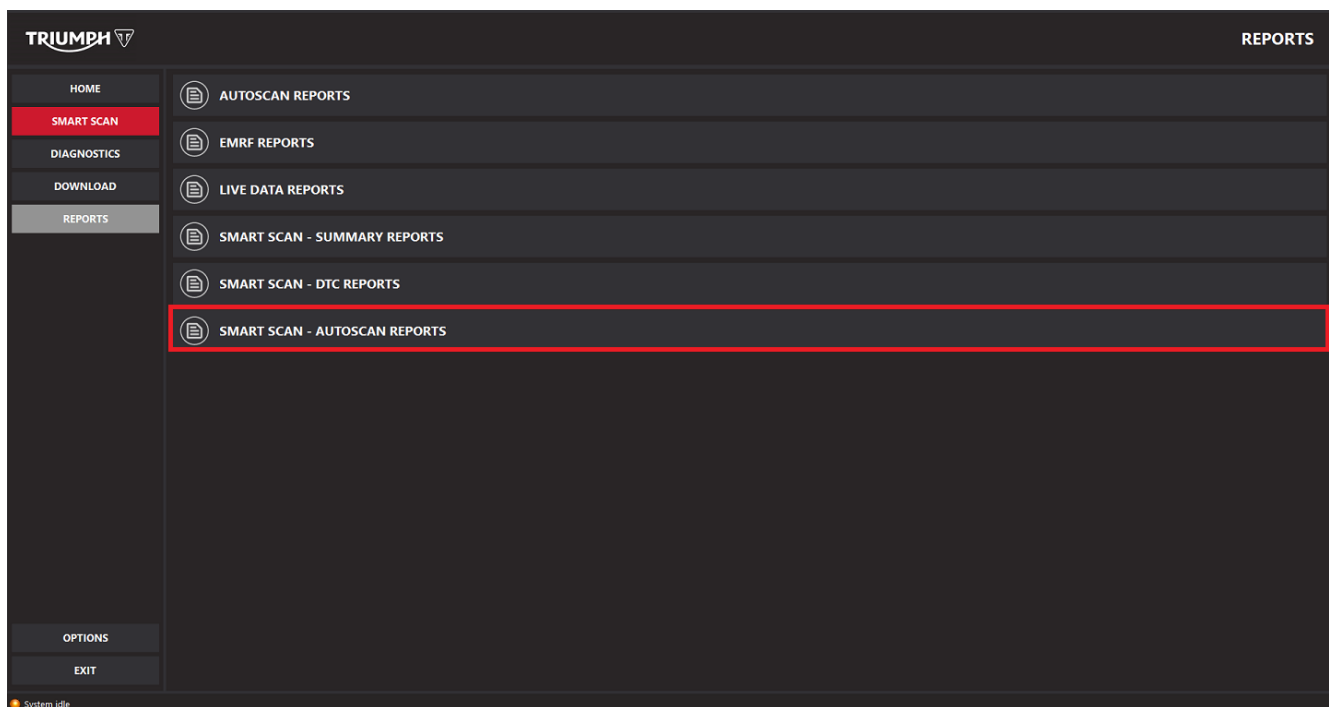
27/11/2024

Report Items			
Engine Running Check	1172 rpm	Pass	✓
Engine Warm Check	90.0 °C	Pass	✓
Engine Data Collection	116 Items Read	Pass	✓
Description	Value		
ECM Serial Number	000000000		
ECM ID Number	01295802		
VIN	SMTTAP20VUNBB8800		
Date of Last Application Download	26/03/24		
Date of Last Calibration Download	26/03/24		
Calibration Number	031378		
Build Number	000000		
ECM Calibration Lock Status	Unlocked		
Software Startup Version	202303		
Total Calibration Downloads Since Manufacture	1		
Battery Voltage	14.0 V		
Voltage from Ignition Key Input to ECM	14.1 V		
Air Temperature Sensor Voltage	3.1 V		
Coolant Temperature Sensor Voltage	0.7 V		
Atmospheric Pressure Sensor Voltage	4.0 V		
Manifold Absolute Pressure Sensor 1 Voltage	2.0 V		
Throttle Position Sensor 1 Voltage	0.635 V		
Throttle Position Sensor 2 Voltage	1.504 V		
Fuel Level Sensor Voltage	1.23 V		
Oxygen Sensor Voltage - Bank 1 Sensor 1	0.423 V		
Oxygen Sensor Voltage - Bank 2 Sensor 1	Not Applicable		
Oxygen Sensor Voltage - Bank 1 sensor 2	Not Applicable		
Twist Grip Position Sensor 1 Voltage	1.00 V		
Twist Grip Position Sensor 2 Voltage	0.50 V		

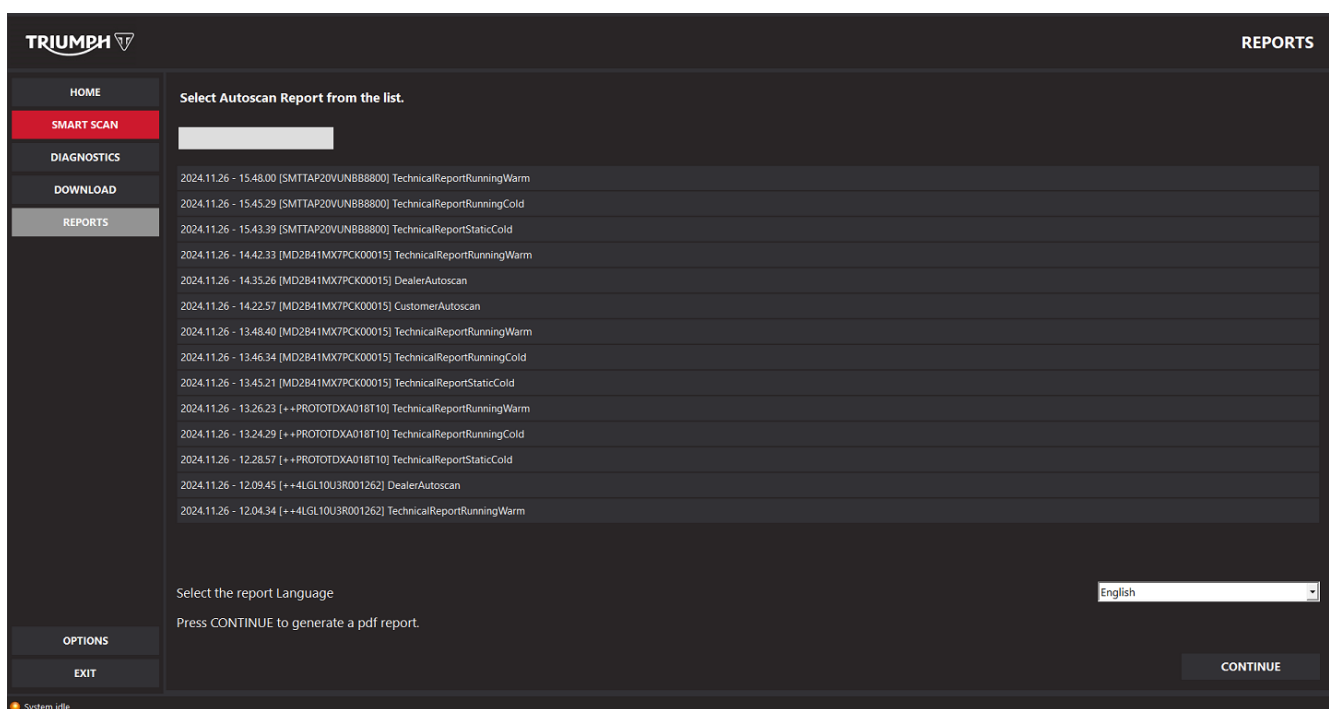
Reports Menu - Smart Scan - Autoscans Reports Browser

To access the Smart Scan - Autoscans Report Browser:

1. From the Main Menu navigate to the Reports Menu.
2. Select **Smart Scan - Autoscans Reports** from the menu.



3. The Autoscans Report browser screen is displayed.



4. A list of all stored reports is displayed in the main display window. The reports are shown in date and time order, with the most recent report appearing at the top of the list.
5. The reports can be browsed using the scroll bar on the right hand side.

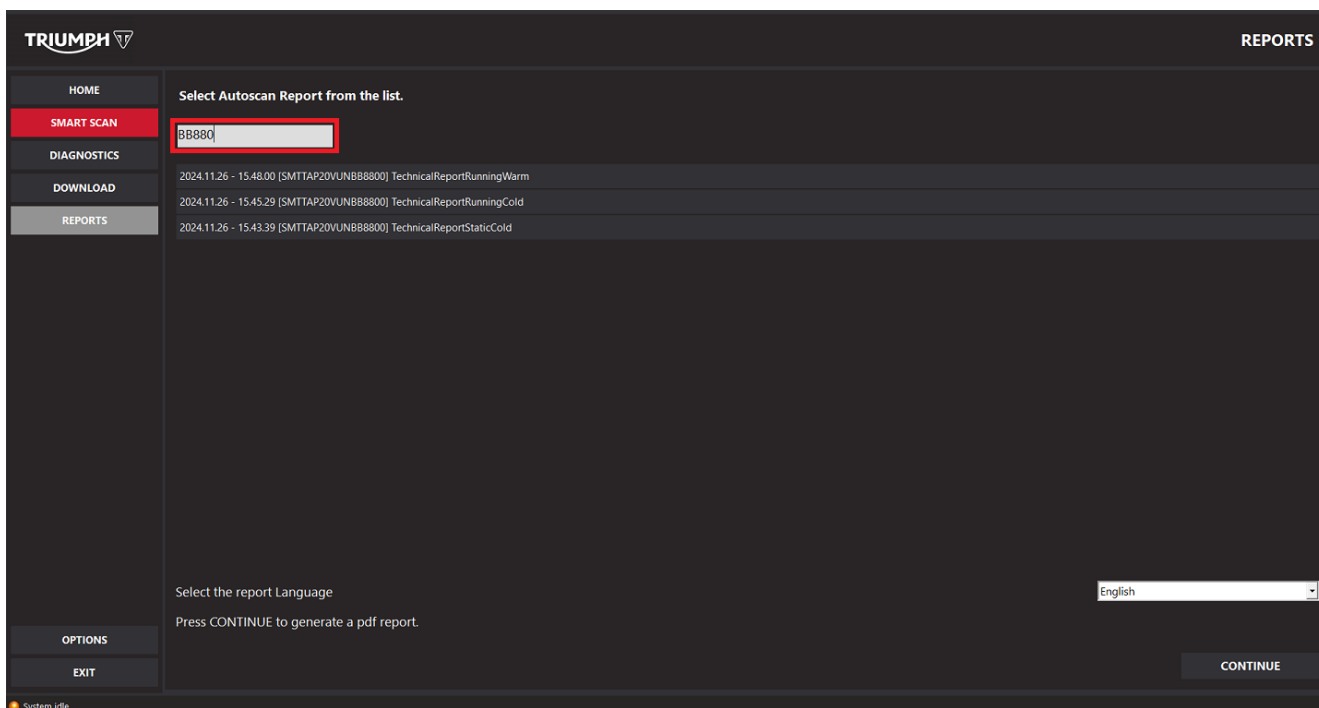
NOTICE

Smart Scan - Autoscan Reports are stored with the following naming format:

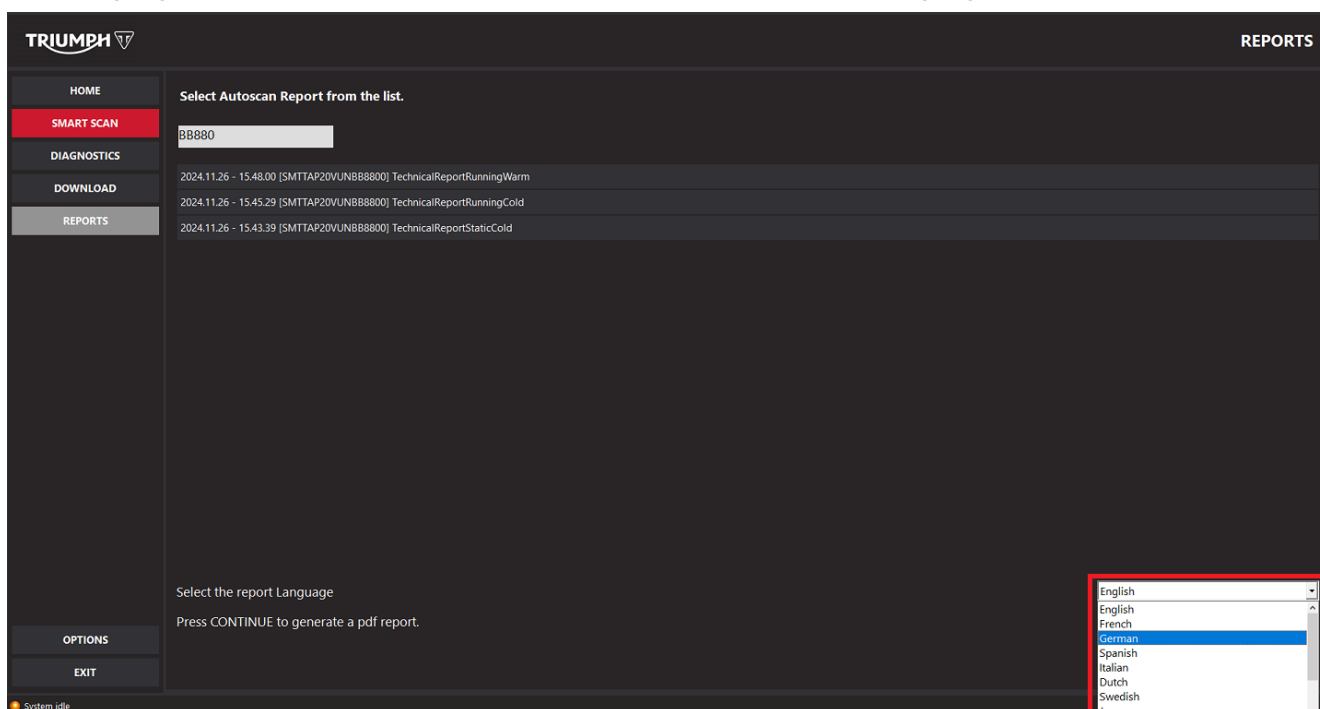
Date - Time - 17 digit VIN - Report Type

For example: YYYY.MM.DD - HH.MM.SS - [XXXXXXXXXXXXXXXXXX] - CustomerAutoscan

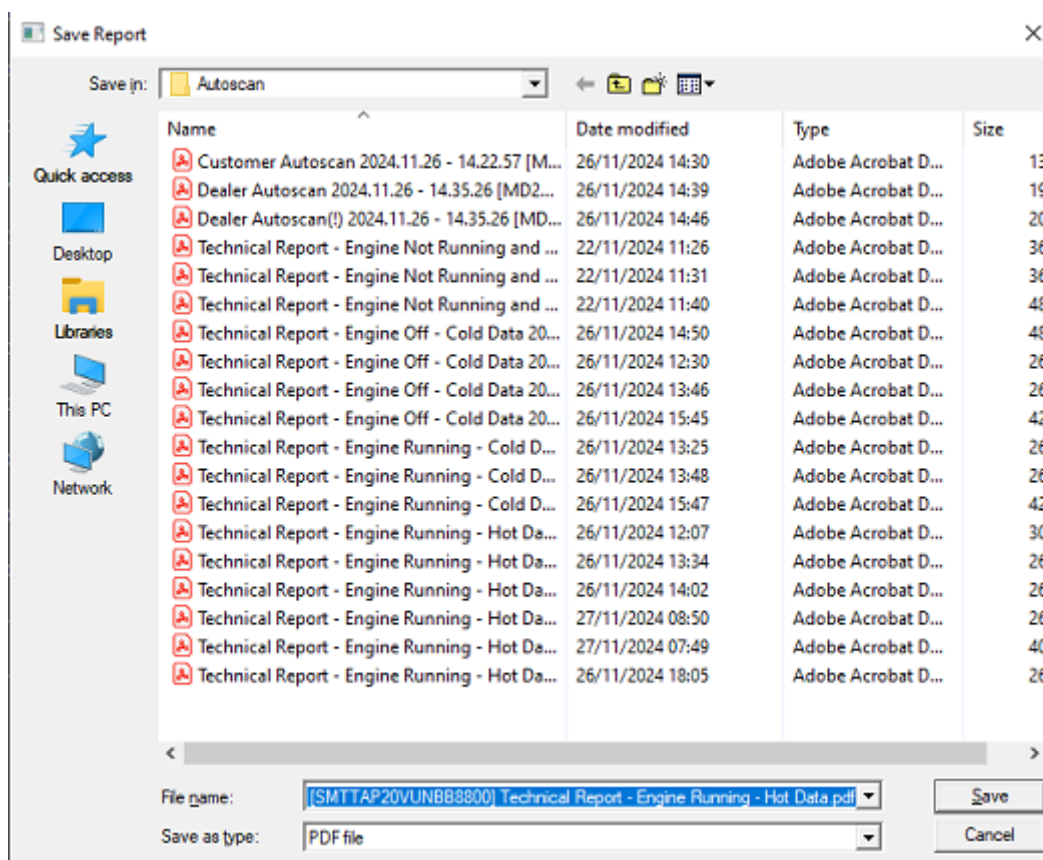
6. The list of stored reports can be filtered by adding keywords to the Search box. For example:
- Entering the last six digits of a motorcycle VIN will filter the list to only show reports stored for that VIN.
 - Entering a date will filter the list to only show reports generated on that date.
 - Entering a report type (such as "CustomerAutoscan") will filter the list to only show reports of that type.



7. The reports can be generated in all languages currently supported by the diagnostic tool. Use the Language Selection drop down menu to select your desired report language.



8. When you have selected a report and a report language, click **Continue** to proceed.
9. The Save Report window is displayed.



NOTICE

PDF report files are saved to the following location by default.
C:\ProgramData\Triumph Diagnostics Data\SmartScan\Autoscan

10. Click Save to generate and save the report PDF in the default location.
11. Alternatively, use the Windows file name editor and folder navigation tools to rename the file and choose a save location as required.
12. Upon clicking Save, the report will be opened in your chosen PDF viewer.