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COMMERCIAL VEHICLES

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JALTEST 18.2

Presentation of Innovations

Index

1. NEW SOFTWARE FUNCTIONS

1.1. JALTEST SOFT

1.1.1. New icons in System Scan

New icons in System Scan to identify the systems with present errors, with non-present errors, or without errors.

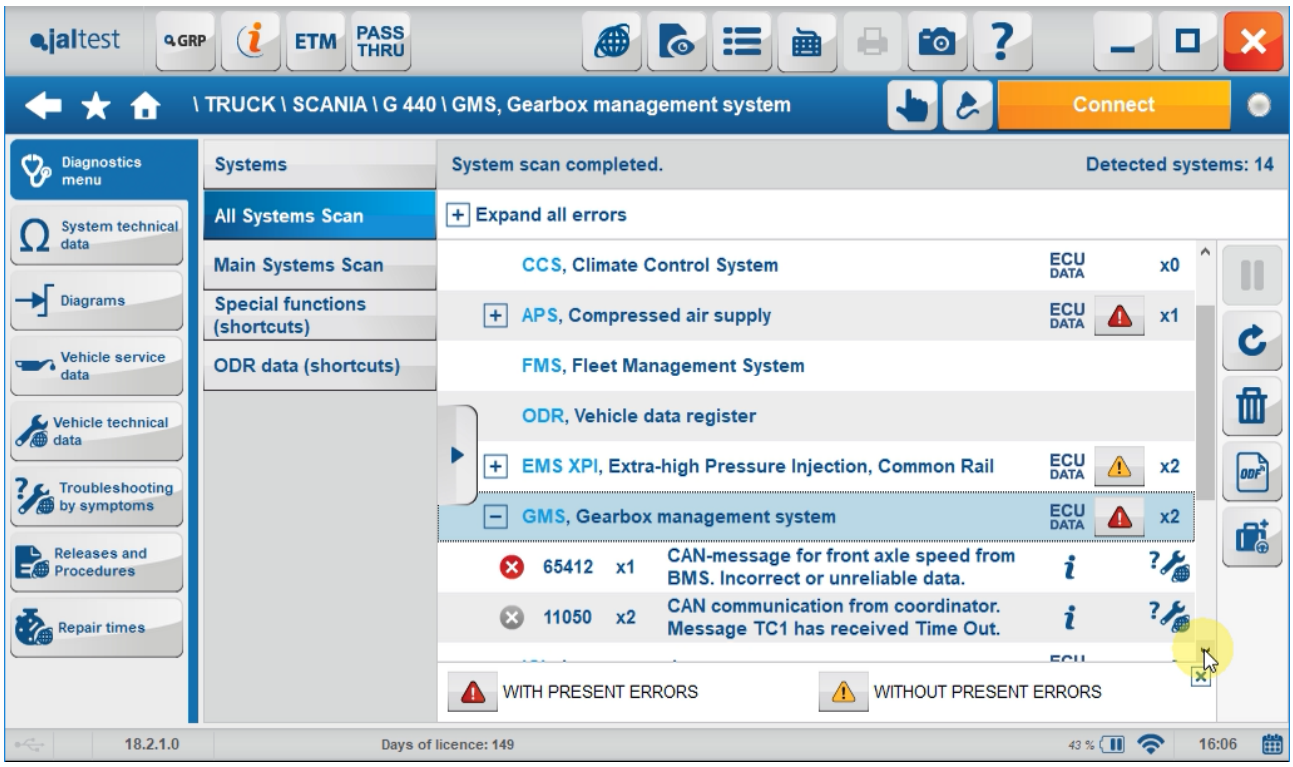

Image 1 System Scan in the model G440 of Scania

The System Scan processes have been improved, indicating which systems have present errors through a red alarm icon. Systems with non-present errors are indicated with the same icon in yellow. In the image above, you can see how the compressed air supply system and the gearbox management system have present errors in the memory. However, the extra-high pressure injection system has two non-present errors. The FMS and ODR systems do not have any errors in the memory.

In addition, the results of diagnosis per system can be **expanded** and **collapsed** with drop-down menus, and there is an option to expand/collapse all the vehicle errors at once.

To sum up, the System Scan of a model with Jaltest is easy and intuitive. This version, the identified systems and diagnosis results (number of errors, access to technical information…) are displayed all at once.

1.1.2. Access to component measurements from the wiring diagram

In the technical information of a system component, you have access to the new link 'Display measurements' from the diagram, to connect directly and display the measurements related to the component. Likewise, you can access the diagram from the measurements list.

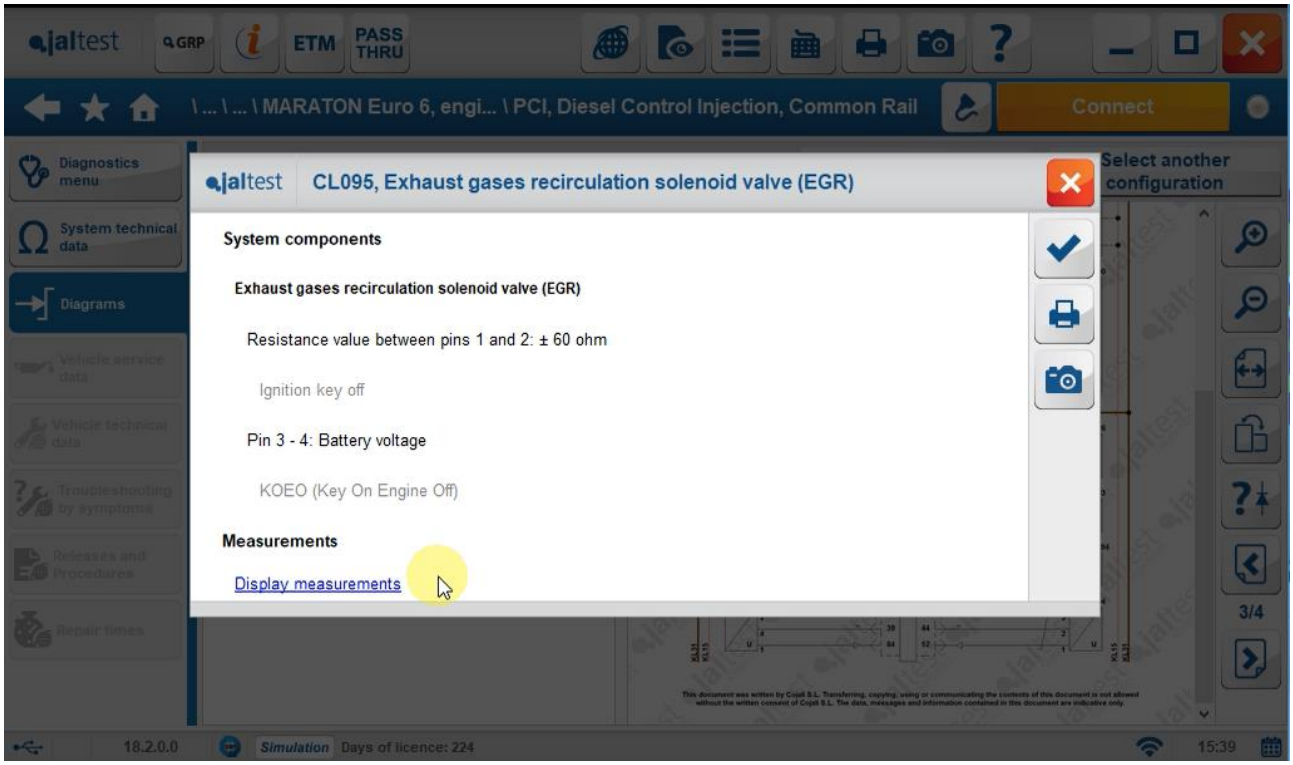

Image 2 Technical information of the EGR valve in the PCI system accessed from the diagram

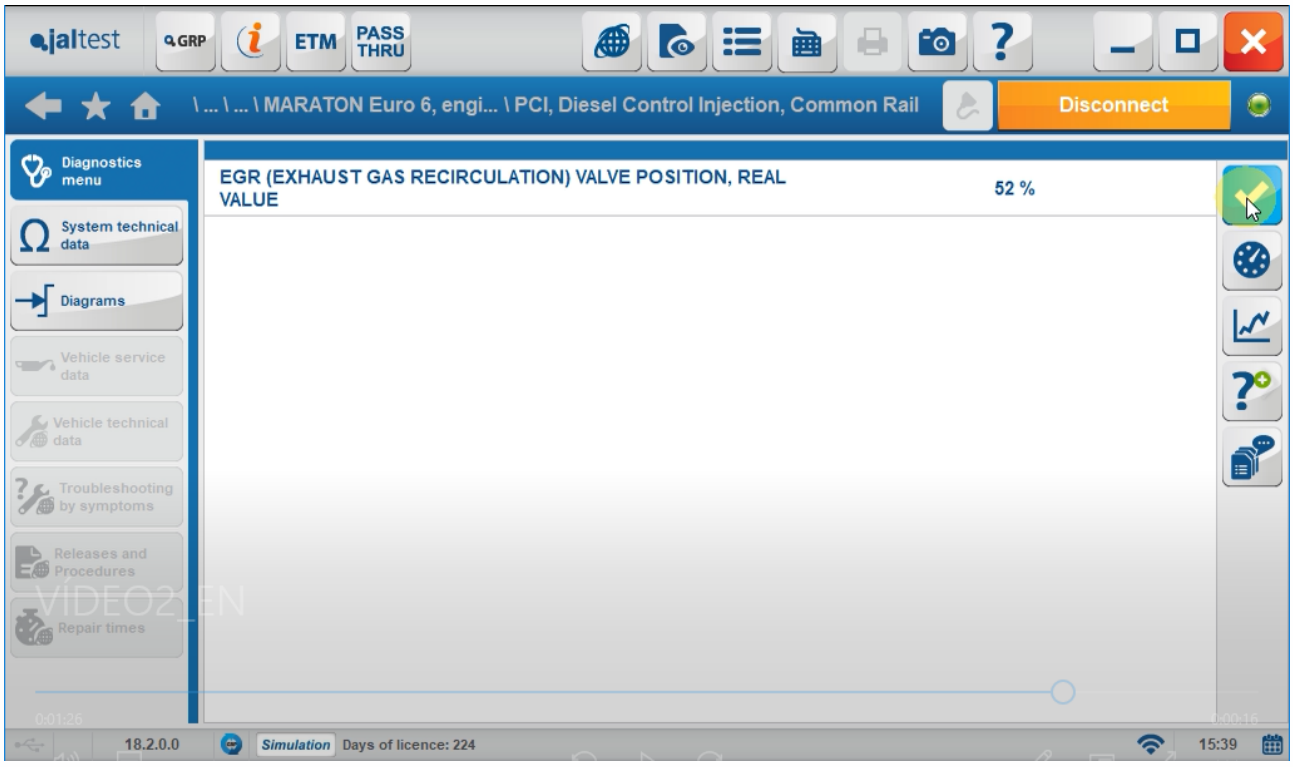

Image 3 Position measurement of the EGR valve actuator in the PCI system

1.1.3. Customised help to diagnosis actions

This version, it is possible to create customised helps for an action.

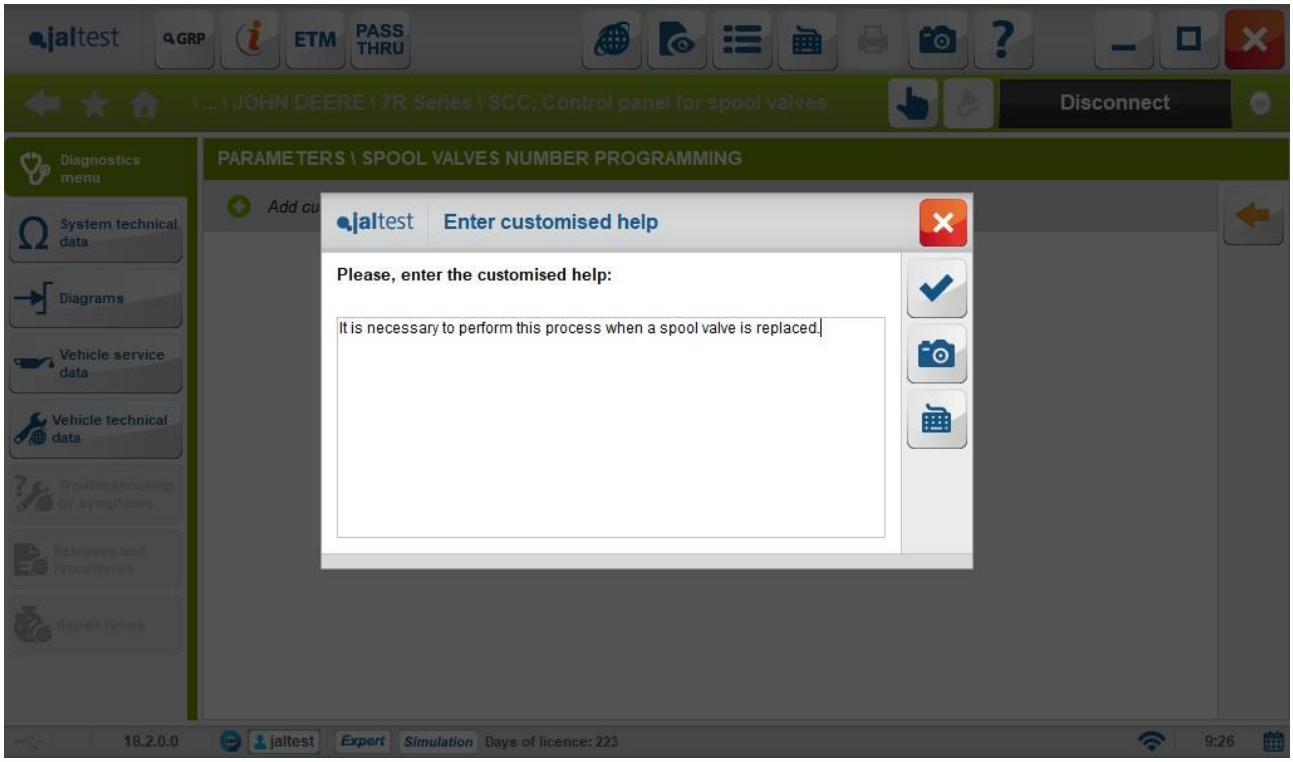

Image 4 Form to enter a customised help text for an action

A star is displayed next to the information access icon of an action, indicating that the user has previously created their own help.

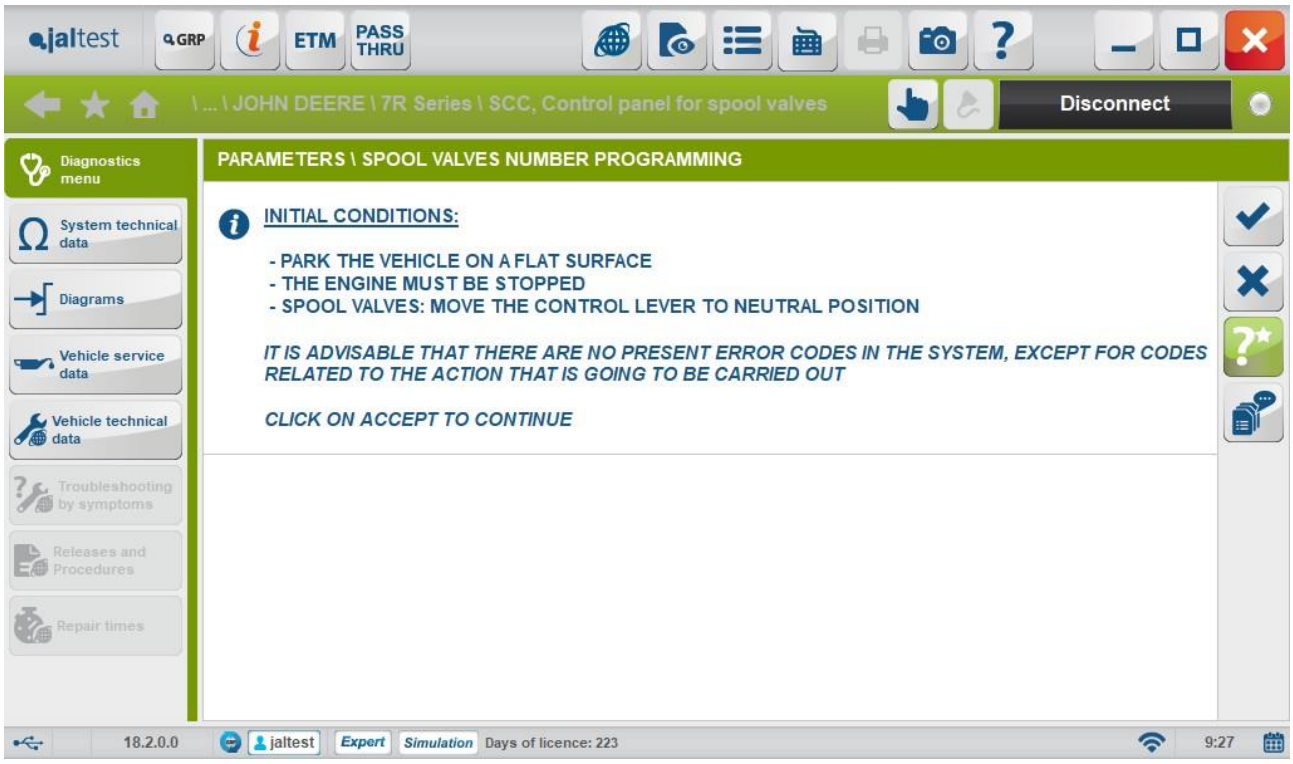

Image 5 Initial conditions of an action that contains a help text created by the user

1.2. GRP

1.2.1. New 'Vehicle list' menu

New 'Vehicle list' menu to manage the customers' vehicles more easily, or to create vehicles of your own fleet without needing to assign a customer as was the case in previous versions of the product.

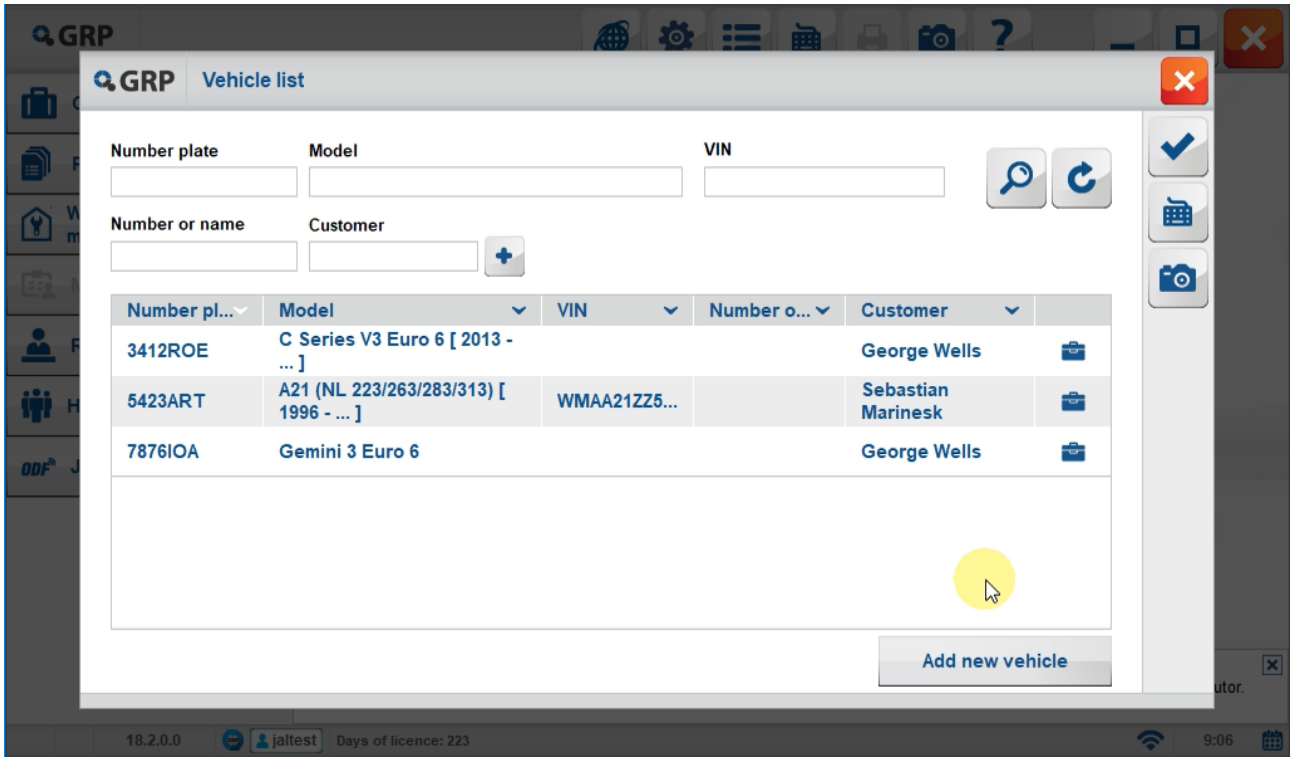

Image 6 Vehicle list in GRP

In the image 12, you can see how, when adding a new vehicle to the list, the field 'Number plate' is no longer mandatory. From this version, it is possible to choose how to identify a vehicle in the list. It can be done by adding the number plate, through the VIN number, or simply indicating a vehicle number or name. This last option is ideal for fleet owners.

1.2.2. Configuration of a vehicle's system list

It is also possible to configure the system list of a vehicle, manually or through a System Scan of the model.

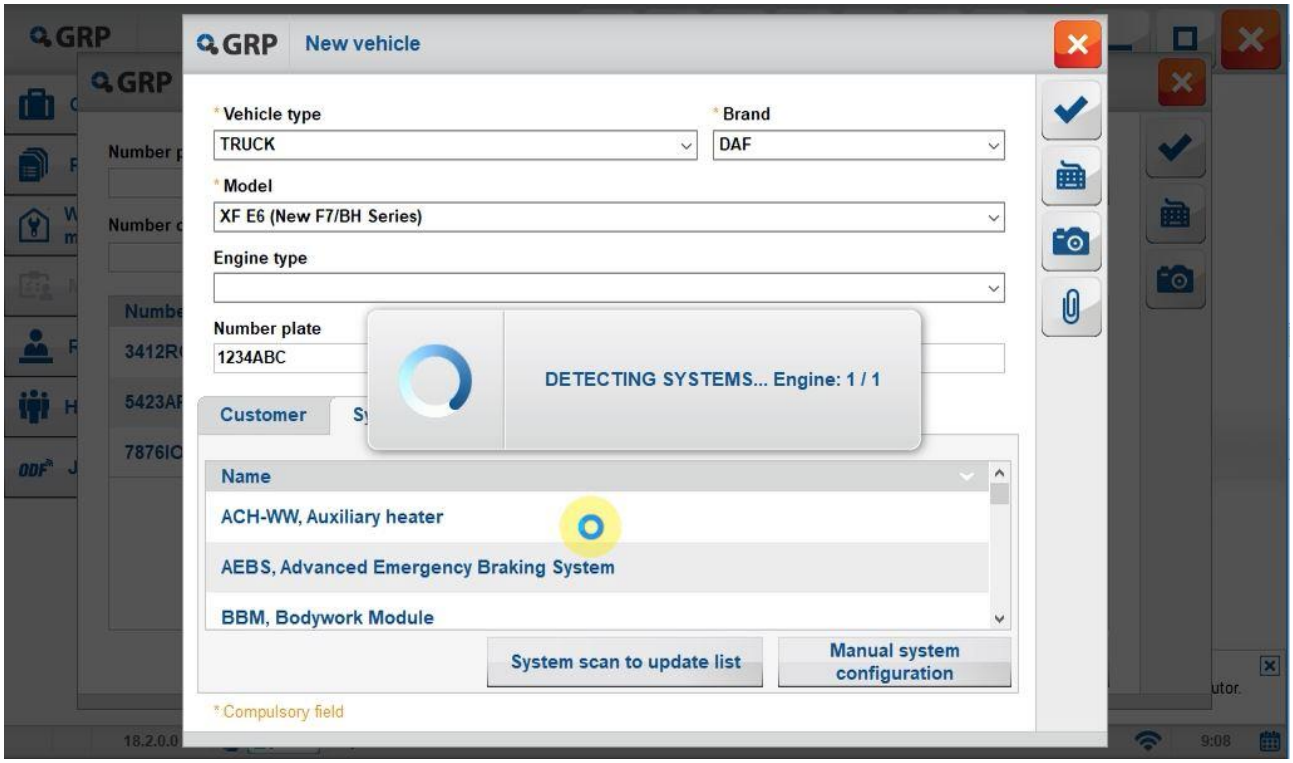

Image 7 Detecting systems to configure the vehicle in GRP

1.2.3. Access to the diagnosis menu from GRP

The diagnosis menu can be accessed from the toolbox of the vehicle in the list, and also using the same icon from the list of diagnosis reports. But the most interesting thing is that, after registering a vehicle in GRP, the identification of the vehicle will be displayed in the Jaltest Soft address bar. This way, the user is always aware of the vehicle on which they are performing repair or maintenance tasks.

2. NEW DIAGNOSIS FUNCTIONS AND SYSTEMS

Take into account that this document is just a summary of the most relevant information of this new version. For further information, please visit **Jaltest Report.**

2.1. DAF

- New systems in the models **XF and CF Euro 6 (New F7/BH Series):**

- **AEBS (Advanced Emergency Braking System)**, counter reset and radar calibration.

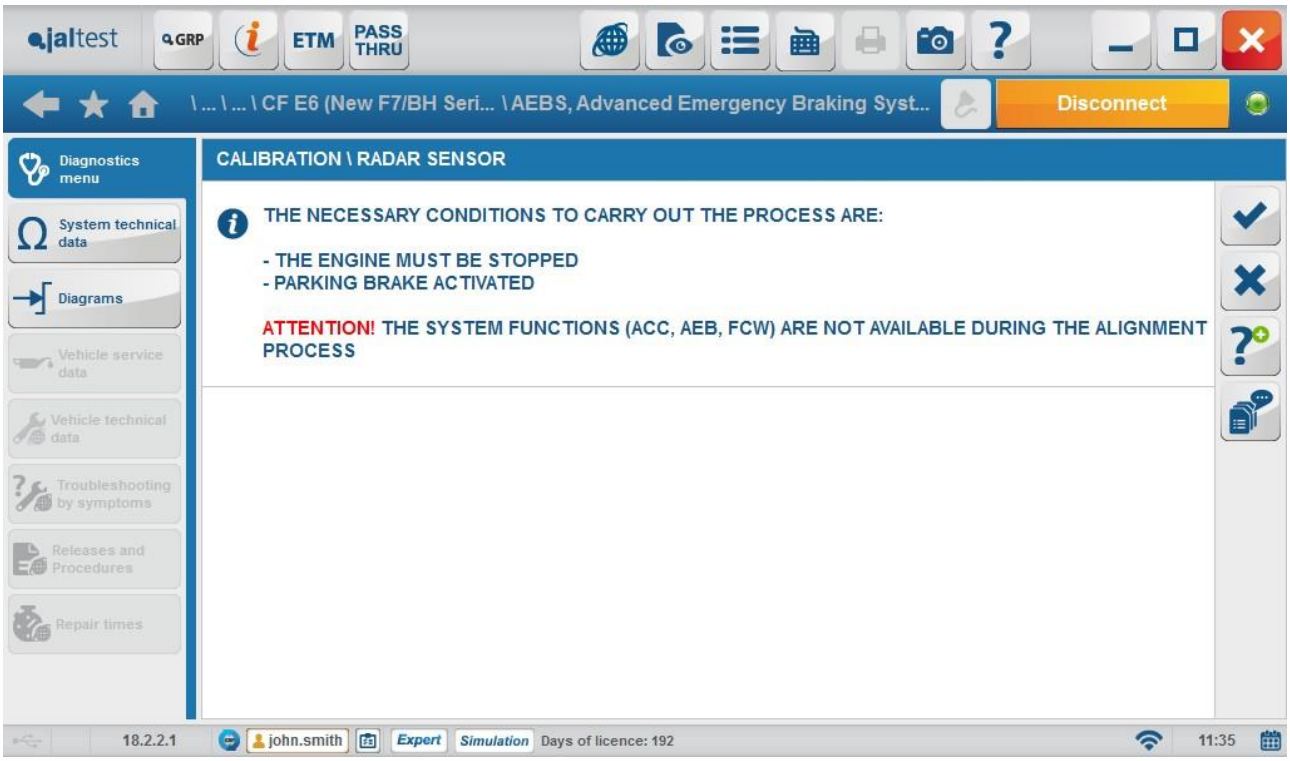

Image 8 Initial conditions of the radar calibration

2.2. Iveco

- **LDWS (Lane Departure Warning System)** and **AEBS (Advanced Emergency Braking System)**, counter reset and calibration of radar and cameras.

2.3. MAN

- New systems in the new **TG Series models.**
  - Tipmatic transmission (SGC-Scania 12+2).
  - ZF TraXon transmission.
  - Lane departure control system and **MFC TRW** system **(Multi-Function Camera).**
- New system in buses.
  - **ROM2 TRW** radar control system.

2.4. Mercedes-Benz

The following innovations have been included in vehicles with MB4 technology:

- **MPC (**Multi-Purpose Camera), parameterization of the camera position.

The following innovations have been included in buses:

- New security systems.
  - **RDF** (Radar Front) sensor.
  - **MPC** (Multi-Purpose Camera).
  - **VRDU** (Video and Radar Decision Unit).

2.5. Renault

The following innovations have been included in vehicles with V4 technology, and the control of new references and diagnosis identifiers has been improved.

- **CCIOM (Central Chassis I/O Module)**, control of the suspension system in the front part of the vehicle, solenoid valve test, lift/lower, calibration…

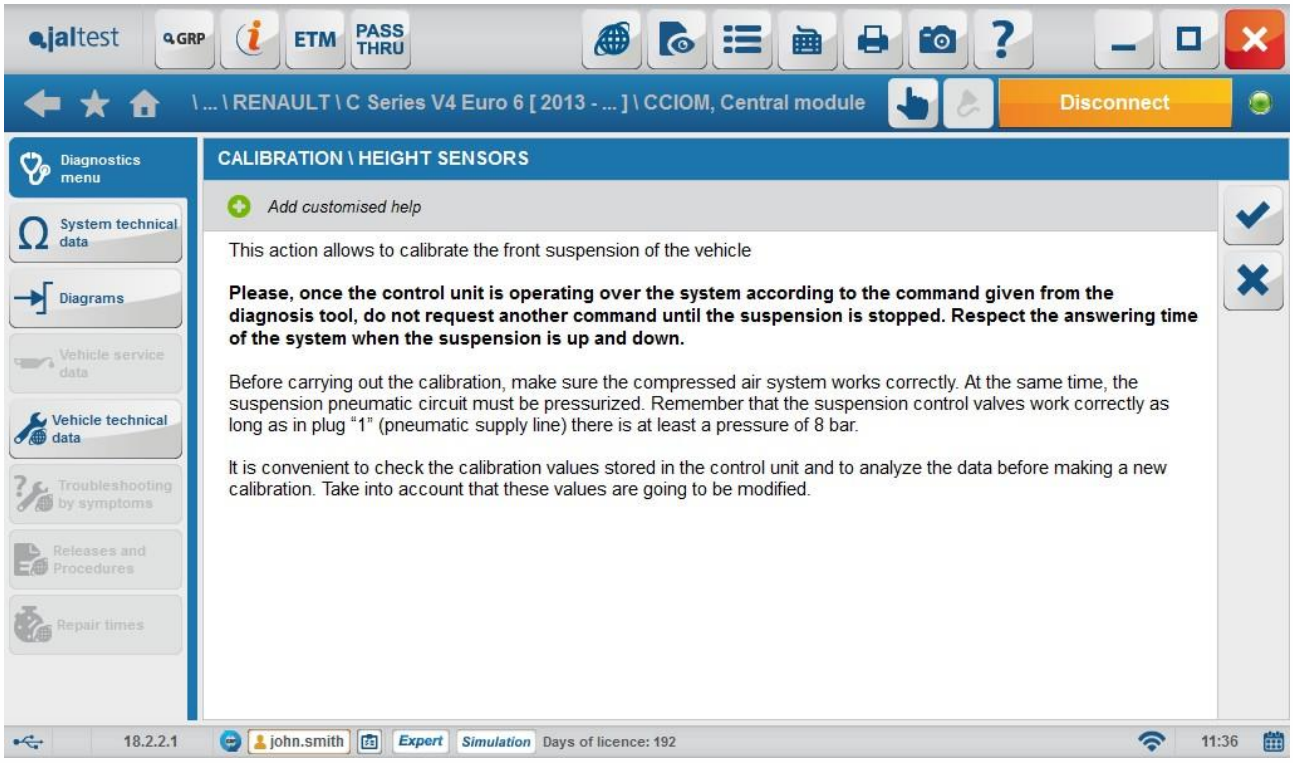

Image 9 Help text for the calibration of the front suspension in Renault V4

The following innovations have been included in vehicles with V3 technology:

- New security systems in D Series models (10 - 26 t) and C Series Euro 6 models.
  - **LPOS (Lane Position Object Sensor)**.
  - **DACU (Driver Assistance Control Unit**).

- Engine Control Module ECM ZD DTi3 in D Series models (3,5 – 7,5 t), injector coding.

2.6. Volvo

The following innovations have been included in vehicles with V4 technology, and the control of new references and diagnosis identifiers has been improved.

- **CCIOM (Central Chassis I/O Module)**, control of the suspension system in the front part of the vehicle, solenoid valve test, lift/lower, calibration…

New security systems in FE V3 and FL V3 models.

- **FLS (Forward Looking Sensor)**.
- **LPOS (Lane Position Object Sensor)**.
- **DACU (Driver Assistance Control Unit**).

Also available in buses.

2.7. Trailer

Jaltest keeps improving its coverage in Trailer systems, including the new references of Trailer EBS modules, and it remains a leading tool in the diagnosis of this type of vehicles.

2.7.1. Wabco

- Development of the **Trailer EBS E5.3** version.

2.8. LCV

2.8.1. Iveco

- **EDC 17** (Electronic Diesel Control), replacement of the AdBlue/DEF tank and oil dilution evaluation test.

In addition, new references are controlled in this system.

2.8.2. Ford

- New systems in **FT Series** models.

2.8.3. Mercedes Benz

- New systems in models of the **Vito [447]** family:

2.8.4. Opel/Vauxhall

- Calibration of the steering angle sensor in the **ABS/ESP 9.0** system.
- **EDC 17 C11** (Electronic Diesel Control) system, injector codification.

2.8.5. Renault

- Calibration of the steering angle sensor in the **ABS/ESP 9.0** system.

2.8.6. Volkswagen

- Improvement of the system coverage in the families of VW T6 models.

2.8.7. PSA Group

- **EDC 17 CP52 CAN** (Electronic Diesel Control) system, reset of adaptation values.

2.9. Manufacturers

Apart from important improvements in Cummins and Allison for the American market, Jaltest has included innovations that are relevant for all the markets in these brands and others.

2.9.1. Hübner

- Calibration of the **ACU (Articulation Control Unit)** in buses of the following brands: IVECO, Mercedes-Benz, Solaris, Volvo, etc.

2.10. Other brands

Take into account that this document is just a summary of the most relevant information of this new version. For further information, please visit **Jaltest Report.** It is possible to consult the coverage innovations of truck and bus brands such as AGRALE, where a new ABS 8 (ASR/EBD) brake system has been added, FORD and VOKSWAGEN.

2.10.1. Hino

- New systems in the PROFIA/700 Series model.

- **AdBlue/DEF Denox 2.2** exhaust gases treatment system, improvement in reference control, new component activations, and checks of the AdBlue/DEF pump and dosing valve.

2.10.2. Isuzu

- New systems in the models of the N, F, Series Euro 6 families.
    - Injection control system in the engines 4HK1-TC, 4JJ1-TC and RZ4E-TC.
    - HABS brakes.

2.10.3. Mitsubishi Fuso

- New system EDC 6M70 on CAN (Electronic Diesel Control).

2.10.4. Weichai

- New system EDC 17 CV44 (Electronic Diesel Control).

3. TECHNICAL INFORMATION

Take into account that this document is just a summary of the most relevant information of this new version. For further information, please visit **Jaltest Report.**

It is interesting to highlight that, in most important systems of the main brands, the components of the wiring diagram have been linked with the specific system measurements. See the document section *'New Software functions'.*

In addition, we keep adding and improving the technical information in the **'vehicle technical data'** section, updating indication images about tightening torques, and procedures such as the AdBlue/DEF module filter change in multiple engine types, where mandatory diagnosis functions to be performed during the process are being added, which can now be executed directly. The valve adjustment data and the data in the 'Rods' section have also been revised (for example, in MAN engine types), and new engine types have been created in the project (in Volvo 750 (D16G) among others).

3.1. DAF

- **Fuse and relay boxes** in Euro 6 XF and CF models.

3.2. Mercedes-Benz/Setra

- **System Display** of the fuel circuit in the **CR41** engine control system, Vito [447] model.

3.3. Renault

- **Wiring diagrams** and technical information of the **EDC SID 310** (Electronic Diesel Control) system and **ABS/ESP 9.0** system, in Master models.

3.4. Scania

- **Technical release** 'Main features of the different kinds of power take-off.'

3.5. Volvo

- **System Display** of the **HMIIOM (Human Machine Interface I/O Module)** system in vehicles with V4 technology.

Image 10 System Display in HMIIOM system

3.6. Trailer

- **Technical releases and procedures** to carry out the **PRETRIP** in the following refrigeration systems: Carrier Vector 1500 and 1800 MT and Thermo King Smart Reefer 2.

3.7. Other brands

3.7.1. Hino

In this brand, the technical information in important systems has been greatly increased, and we have also added multiple images that show the components' location.

- **Wiring diagrams**, **error troubleshooting guides** and **technical data** in the **VCS**, **Meter** and **AdBlue/DEF Denox 2.2** systems, **Aisin** transmission, or engine control systems such as **J08E**.

3.7.2. Isuzu

- New **wiring diagram** configurations for the **6WF1-TC** engine control system.
- vehicles

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