



Eclipse

● jaltest

Automotive Technology Ltd

Jaltest Soft 17.2

06.2017

- 0. Evolution in numbers
- 1. Software Innovations
- 2. GRP
- 3. Truck
- 4. Buses
- 5. Trailer
- 6. LCV
- 7. Others

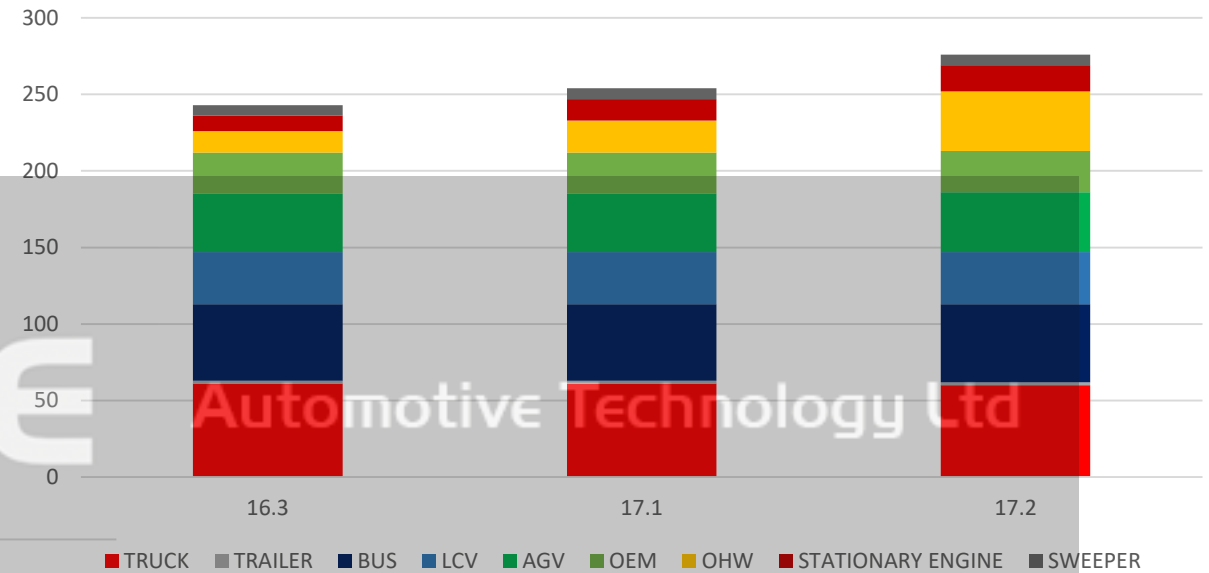


# 0.1 Evolution in numbers

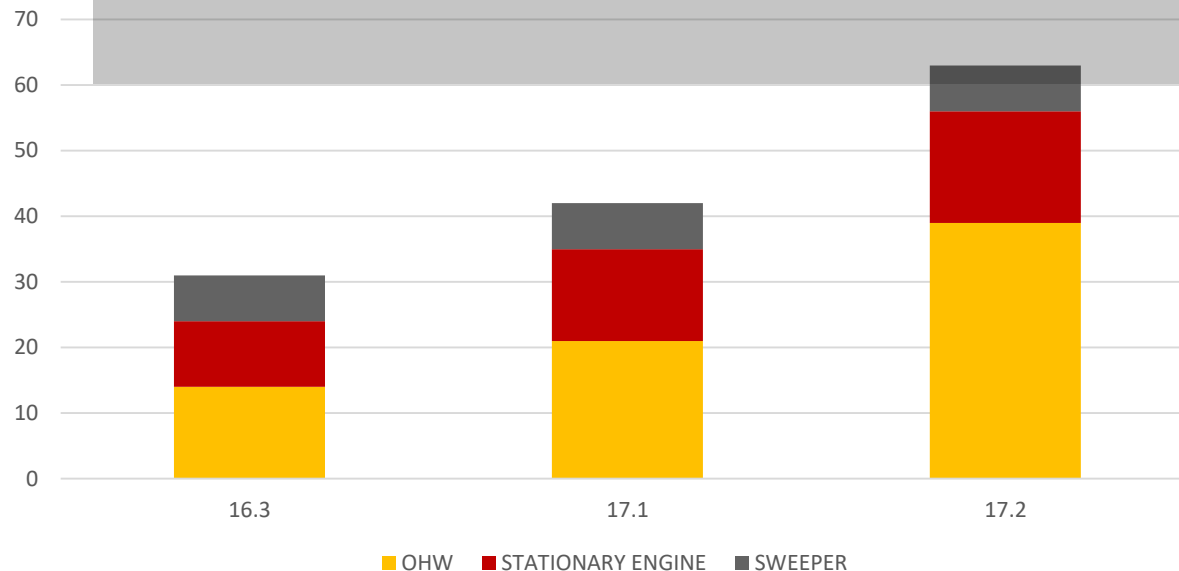
Each other version:

- Increase of expert functions
- Better brands, models coverage
- New Troubleshooting, procedures...
- Specific Jaltest Technical Info
- ...and much more

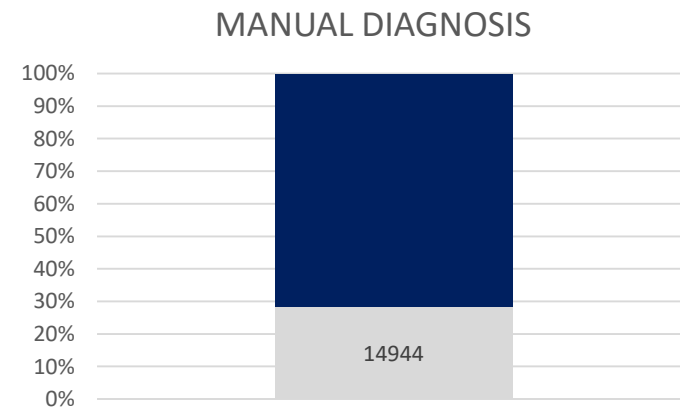
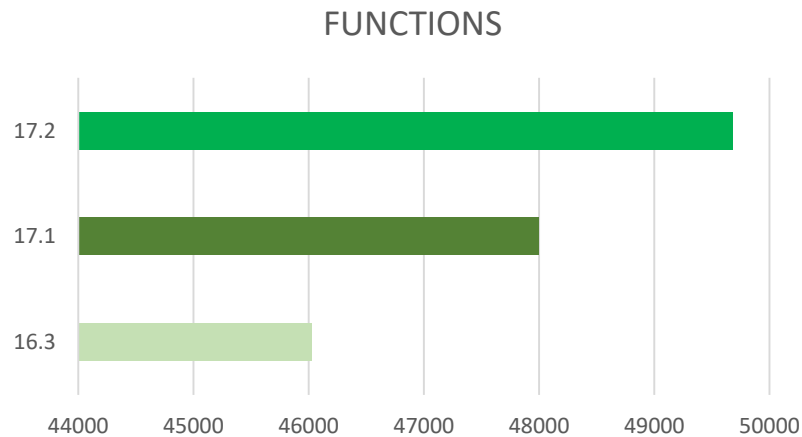
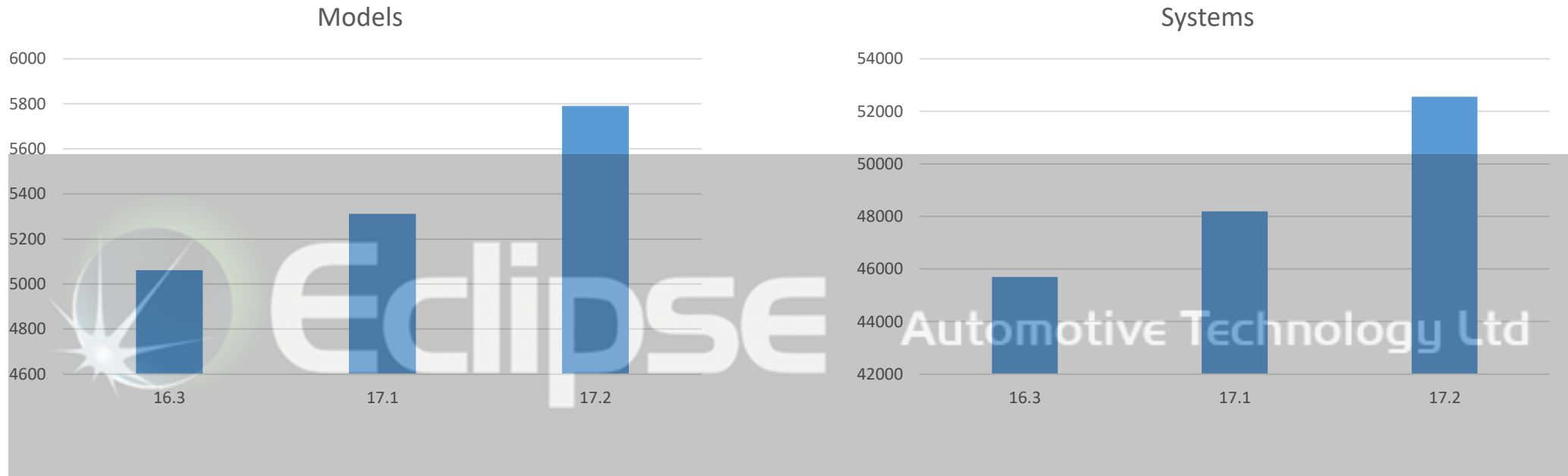
Brands (All type of vehicles)



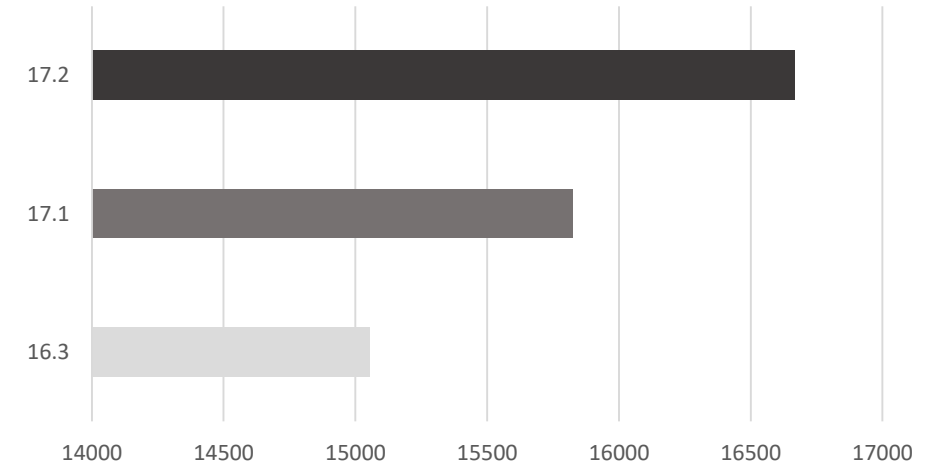
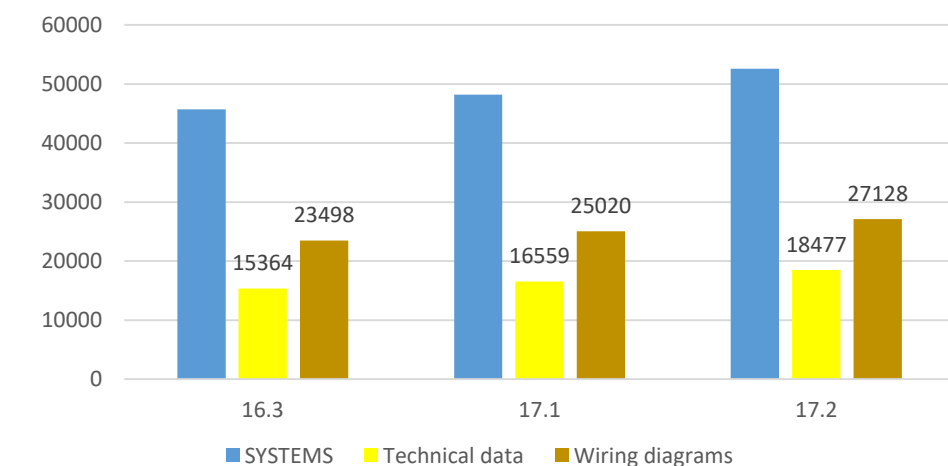
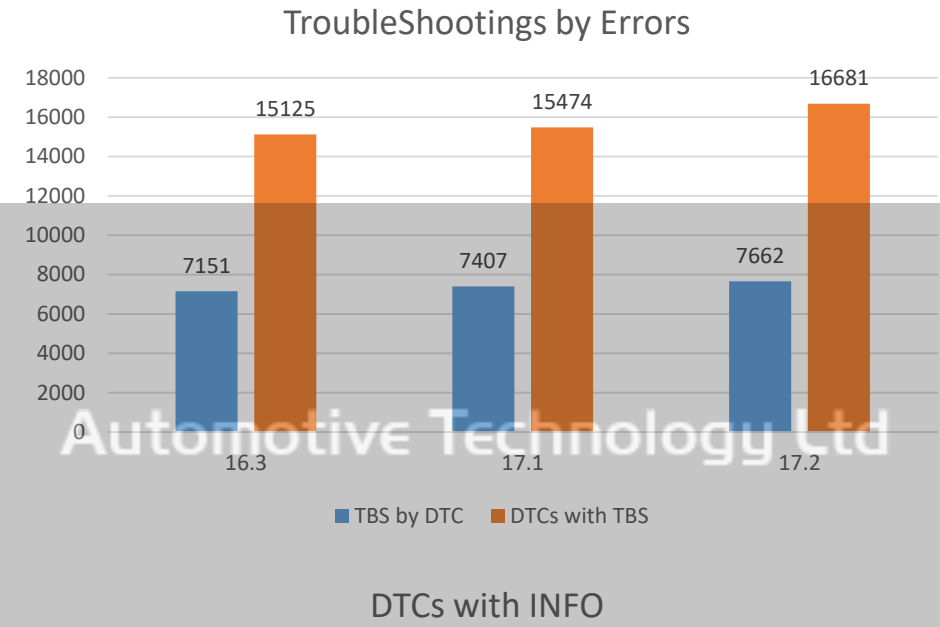
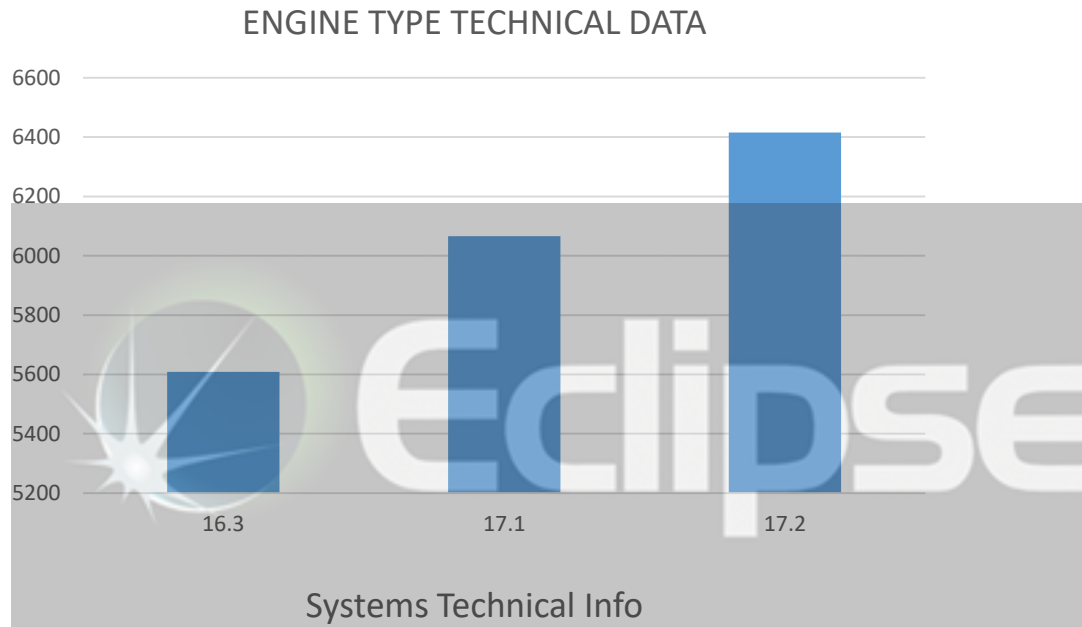
Brands (OHW)



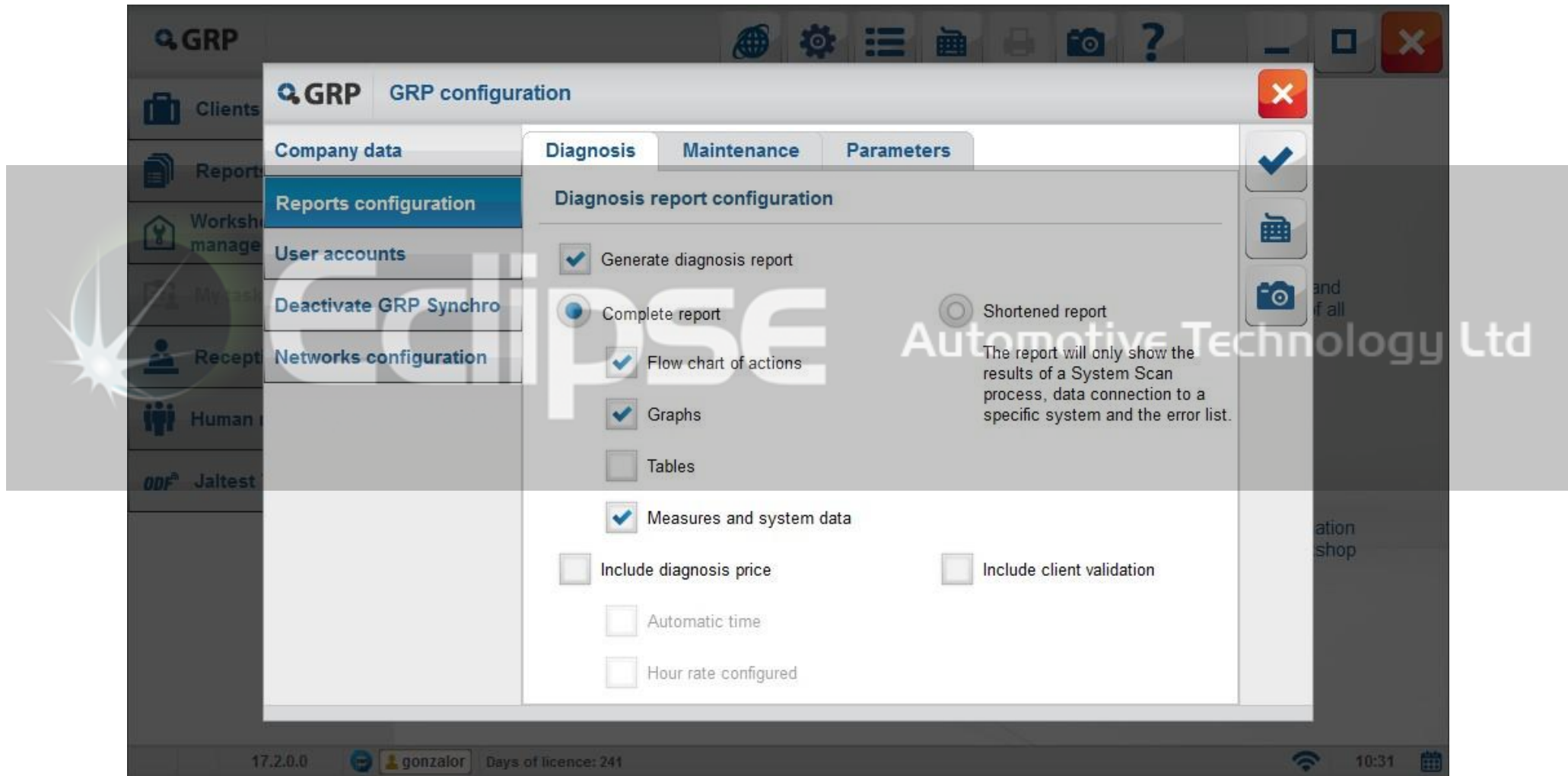
# 0.2 Evolution in numbers: Diagnosis coverage, models, systems ...



# 0.3 Evolution in numbers: Info such as technical data, wiring diagrams, ...

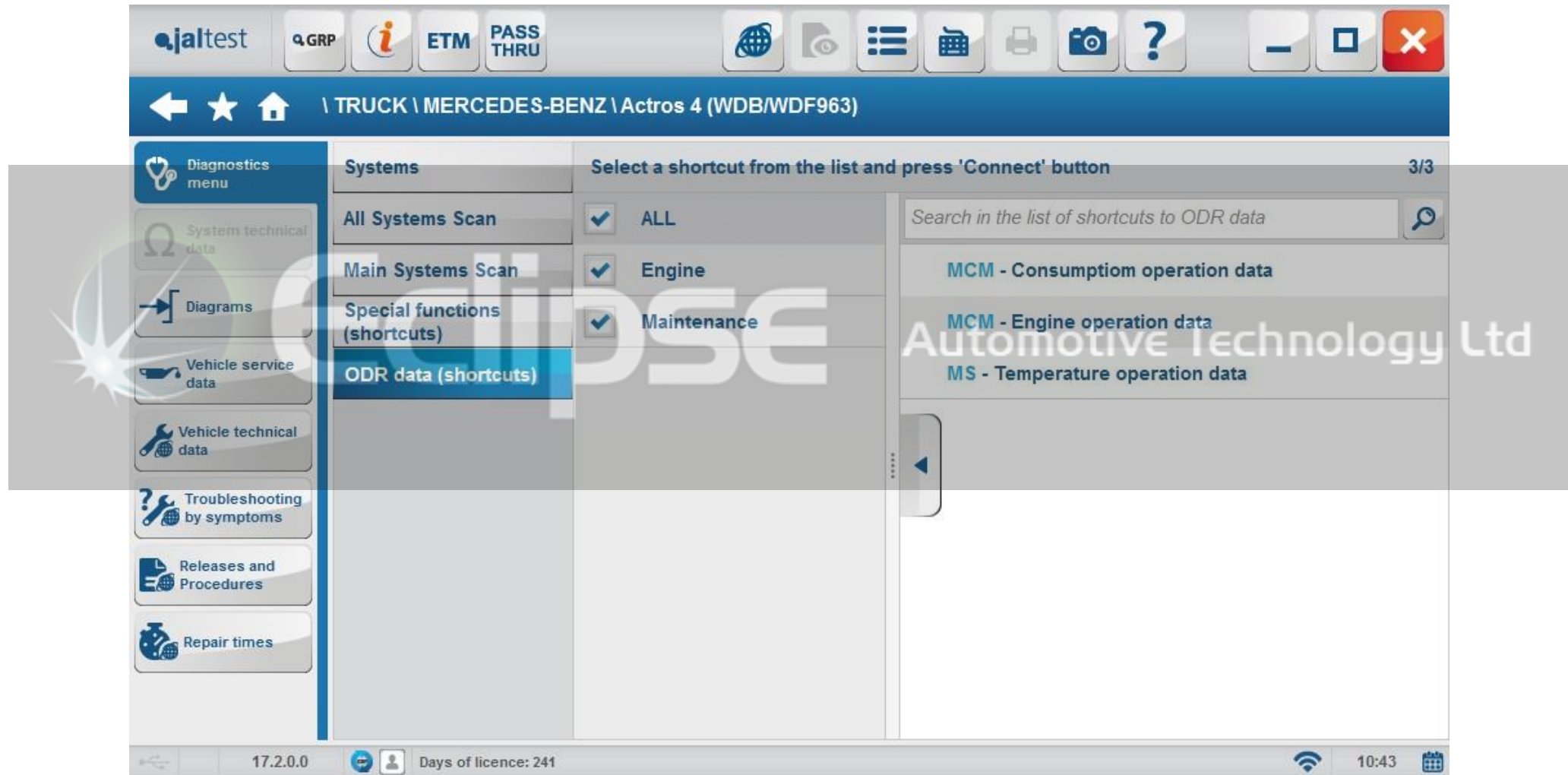


# 1.1 Software innovations: New configuration of the diagnosis reports



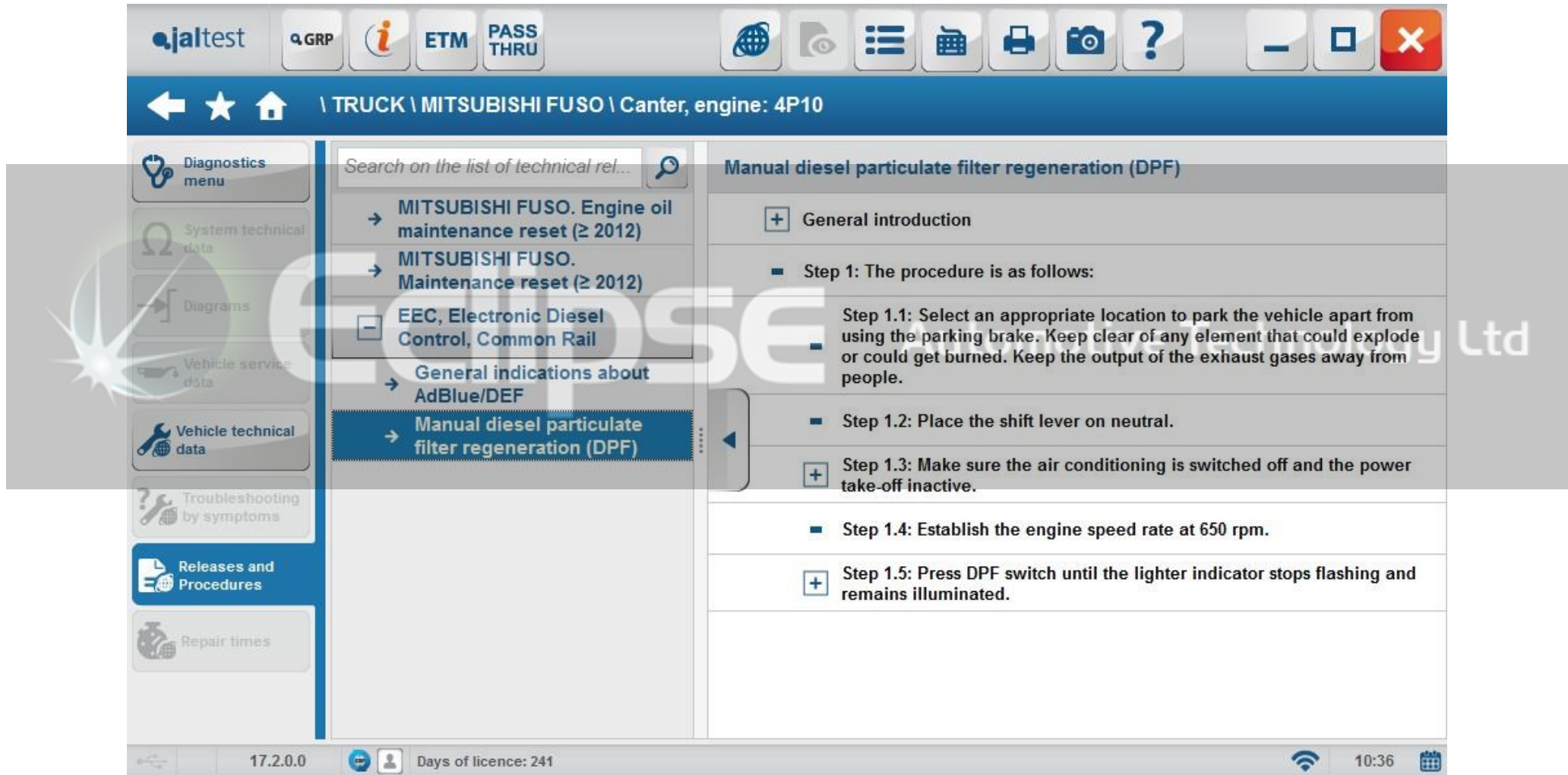
Additionally, the diagnosis report could be saved automatically

## 1.2 Software innovations: Shortcut by model to ODR (Operational Data Recorder)



“We are always taking into account your proposals”

# 1.3 Software innovations: New 'Releases and Procedures' button



During the execution of an action, a procedure could be displayed (e.g. fan clutch test in Volvo and Renault V4)



## 1.4 Software innovations: Other software functionalities

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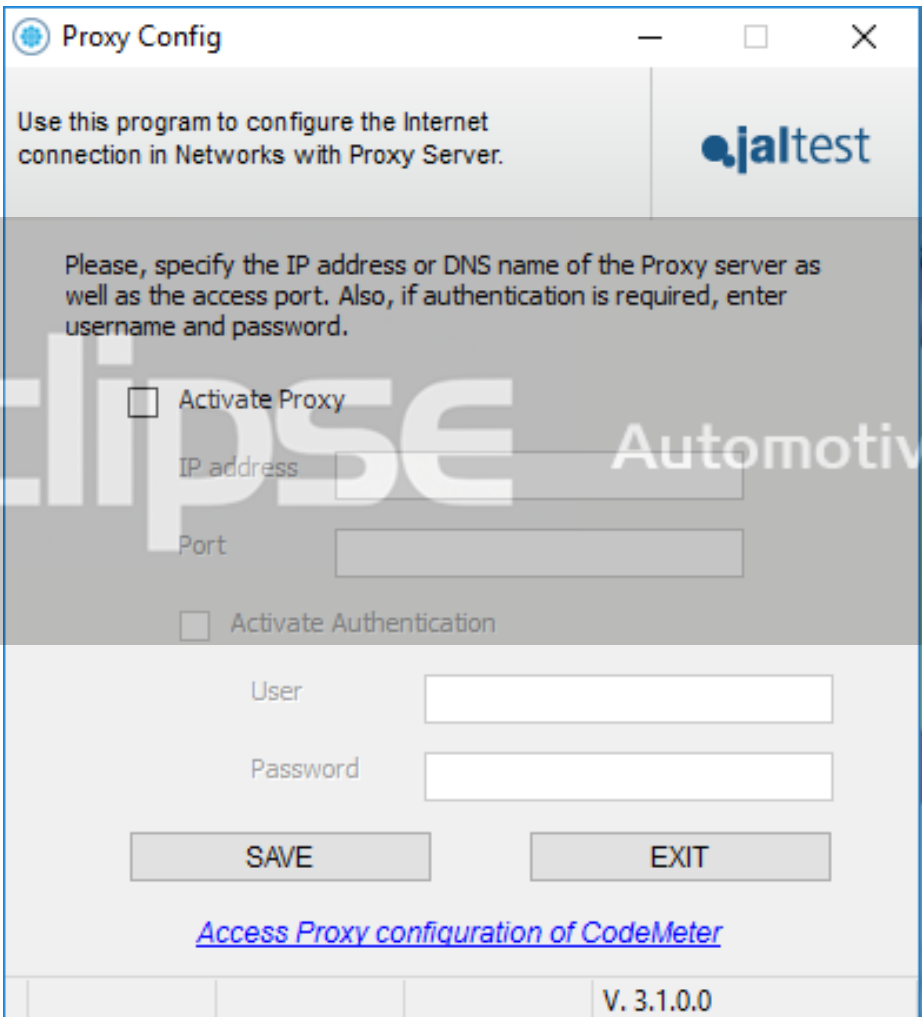
### **NEW!!** Vehicle System Scan for OHW CAT and Volvo

1. The generation of files to import to ODF after a system autodetection
2. The functions, in which the USB is mandatory to connect, re-direct to the config. panel if Bluetooth is being used
3. Possibility to remove repeated measurements
4. One converted value could be directly configured whilst a parameter configuration (edit steps)
5. Proxy config.



“Changes in the database queries which improve the speed of the selection, the screens workflow...”

## 1.4 Software innovations: Other software functionalities, Proxy Config



The image shows a 'Proxy Config' dialog box from the Eclipse IDE. The dialog has a title bar with a gear icon, the text 'Proxy Config', and standard window controls. The main content area contains the following elements:

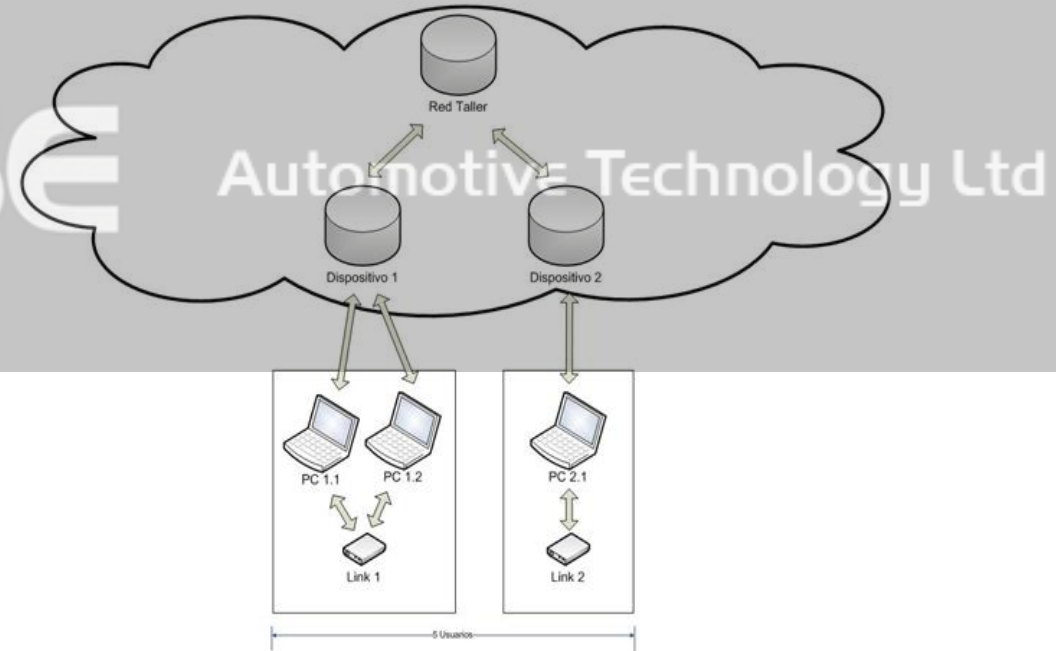
- Instructional text: 'Use this program to configure the Internet connection in Networks with Proxy Server.' followed by the 'jaltest' logo.
- Instructional text: 'Please, specify the IP address or DNS name of the Proxy server as well as the access port. Also, if authentication is required, enter username and password.'
- A checkbox labeled 'Activate Proxy'.
- Input fields for 'IP address' and 'Port'.
- A checkbox labeled 'Activate Authentication'.
- Input fields for 'User' and 'Password'.
- 'SAVE' and 'EXIT' buttons.
- A blue underlined link: [Access Proxy configuration of CodeMeter](#)
- Version information: 'V. 3.1.0.0' in the bottom right corner.

The dialog is overlaid on a background featuring the Eclipse logo and the text 'Eclipse Automotive Technology Ltd'.

This is an option during the installation, additional program also.

## 2.1 GRP (Garage Resource Planning)

1. Development phases of GRP
2. Workshop Network activation (GRP Enterprise)
3. User account creation
4. Client portfolio and vehicles
5. Report management
6. Workshop management
7. Reception
8. Telematics



Lot of improvements have been implemented for 17.2. In the future versions: GRP Network for sharing reports between different workshops, messages service, ERP excel file import and export, ...

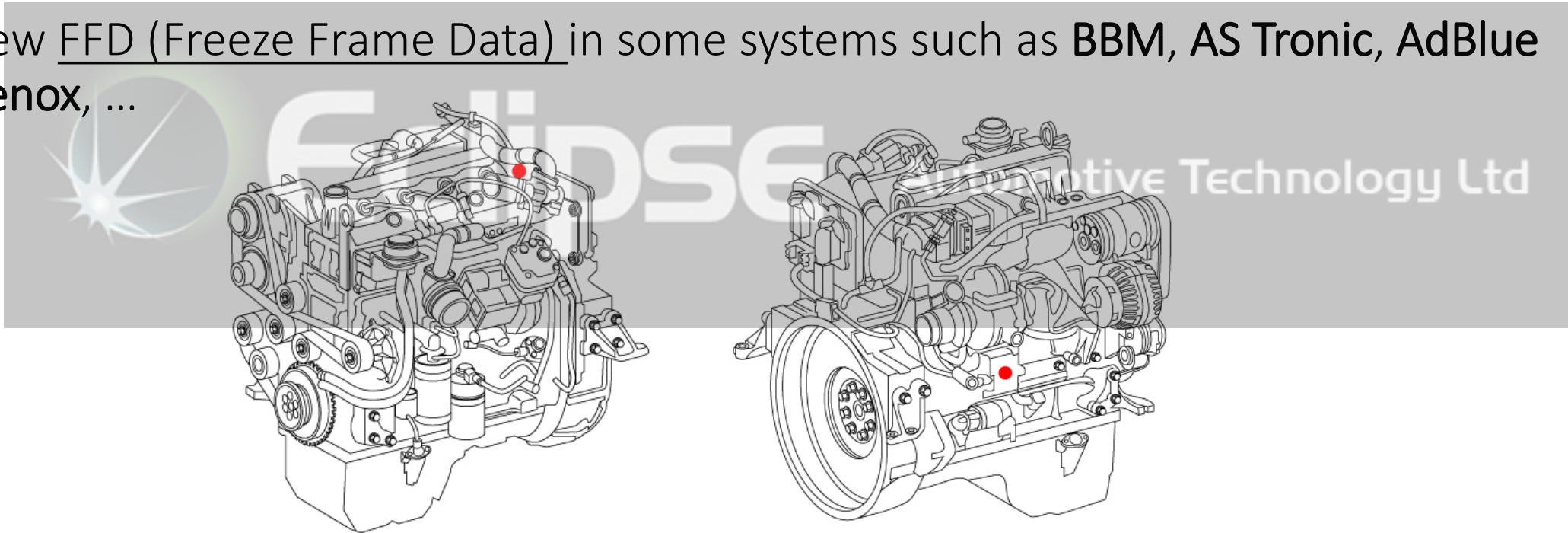
## 3.1 DAF Trucks

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### All models

New control of variant codes for VIC-3, Maintenance, SWS, DTCO, ...

New FFD (Freeze Frame Data) in some systems such as BBM, AS Tronic, AdBlue Denox, ...



Additionally, the info has been improved, much more component location images for engine types MX and PR

## 3.2 Iveco Trucks


### Euro 6 models

EDC 17 CV41, DPF Regen. counters reset (\*)

Denox 2.2, AdBlue metering and leak tests (\*)

CNG Metafuel 4, new measures and FFD (\*)

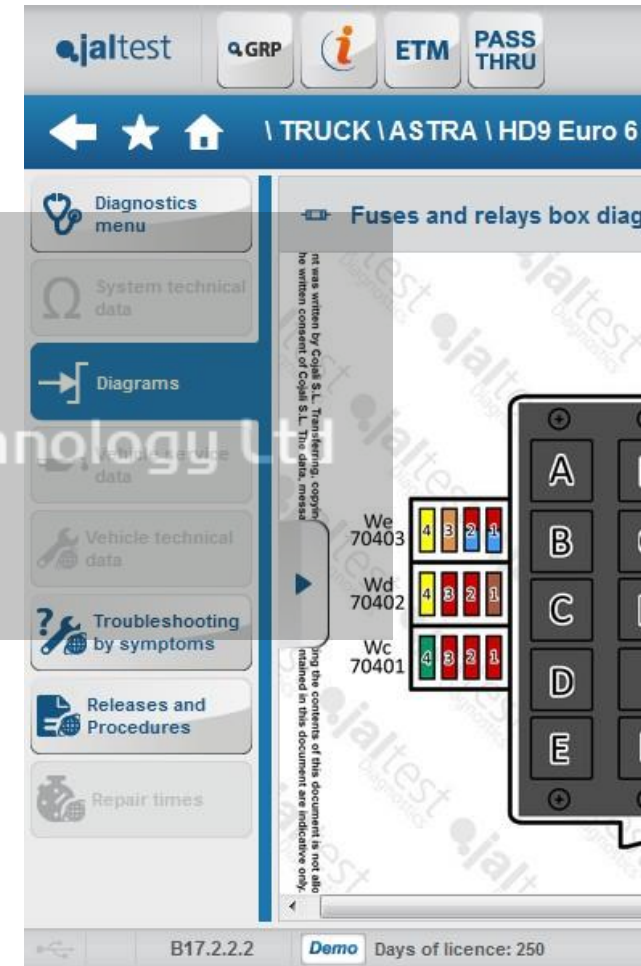
### All models

Hydronic 10 (Eberspächer), manual diagnosis. 

System Display available for all INS systems.

ZF Intarder 3 (EST-54), technical data, wiring diagrams, images...

\* *Systems which can be found in IRISBUS buses.*



This version, ASTRA - as a part of the same group- adds technical info: wiring diagrams, the relays and fuses box and much more for HD9 Euro 6 Truck

### 3.3 MAN Trucks

#### Euro 6 models

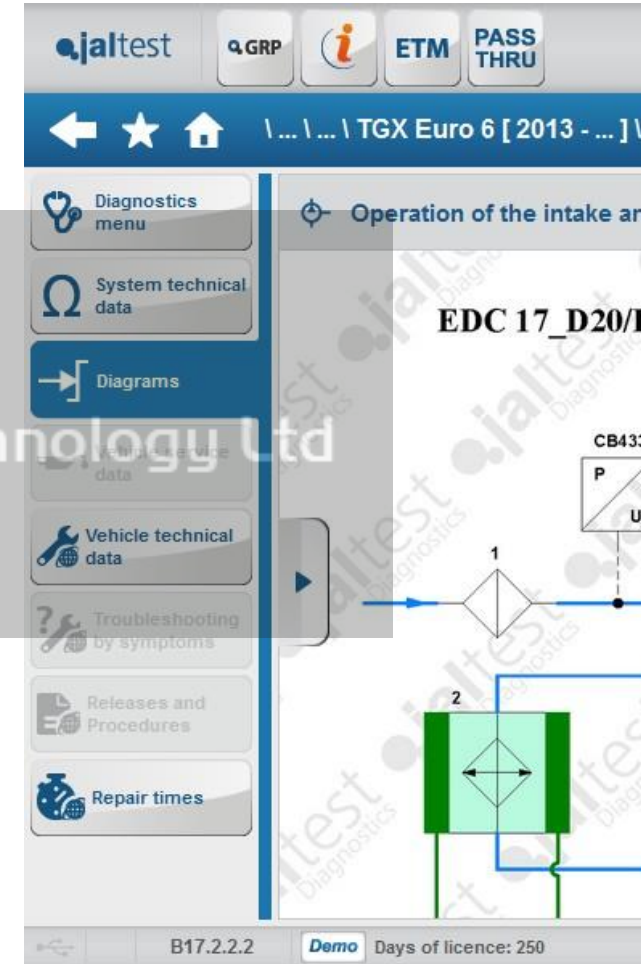
EDC 17, Schematic diagrams for the intake and exhaust system.

System Display available for D08 engines with HCI (Hydro Carbon Injection)

#### All models

PTM, New control of variant codes. Configuration of the ZDR (Intermediate revolutions control).

System Display available for all INS systems.



## 3.4 Mercedes-Benz Trucks

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### MB4 Technologies

EBS, Parameters configuration for Wabco and Knorr-Bremse systems.

DCMD & DCMP, Parameters and the calibration of the power window.

New control of variant codes for MCM, ACM, CPC, SSAM, SCA, SCH, EBS, APS...(\*)

System Display (INS type) available for ACM, SSAM and SCA(\*)

### MB2 Tehcnologies

GM & PSM, Activation and configuration of the PTOs.

WSK & TK, new systems for the clutch converter. 

### Unimog Euro 6

TCM ST Transmission for special vehicles, ICM Hydraulic system and STCU Controller of system for special vehicles 

\* *Systems which can be found in MB and SETRA buses.*

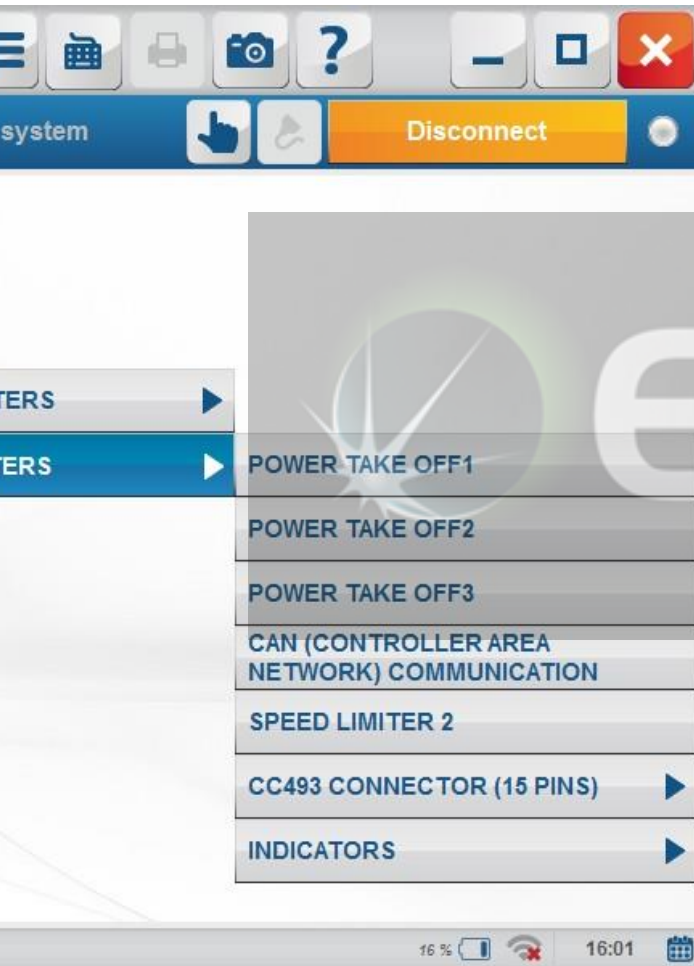
### 3.4 Mercedes-Benz Trucks



An example of a System Display INS type of one MB4 technologies system



## 3.5 Scania Trucks



### R, P, G Series

**BWS**, Parameters configuration (CC493 connector, speed limiter 2, CAN Config.)

**EMS**, Parameters configuration (Clutch control for HPI, correction factor of the fuel consumption, speed limiter 2 related with the BWS ...)

**AdBlue EEC3**, New activations (AdBlue/DEF heater control, AdBlue/DEF pump, ...)

**VIS**, Parameters configuration (external lamps, indicator lamps, high beam...)

*\* Systems which can be found in Scania buses.*

## 3.5 Scania Trucks

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*For 17.2 the Jaltest project adds an extra value including important info on this brand.*

- **Technical Data** in APS
- **System Display** in EMS PDE
- **Technical Release:** *“Starting gear programming in Opticruise automatic gearboxes”*
- **Troubleshooting by symptom** to EEC3 *“Insufficient AdBlue/DEF metering”*
- **Troubleshooting by error** to DTCs 5122 and 5126 in EMS systems
- **ODR data**

*\* Systems which can be found in Scania buses.*

# 3.5 Scania Trucks

The screenshot displays the jaltest diagnostic software interface. At the top, there is a navigation bar with the jaltest logo, a search icon, and buttons for 'GRP', 'ETM', and 'PASS THRU'. Below this is a blue header bar with navigation icons (back, home, star), the vehicle path '| TRUCK | SCANIA | G 320 Euro 6 | EEC3, Exhaust gas treatment system', and a 'Connect' button. The main interface is divided into three sections: a left sidebar with navigation options like 'Diagnostics menu', 'System technical data', 'Diagrams', 'Vehicle service data', 'Vehicle technical data', 'Troubleshooting by symptoms', 'Releases and Procedures', and 'Repair times'; a central search area with a search bar containing 'Insufficient AdBlue/DEF metering'; and a right-hand panel titled 'Insufficient AdBlue/DEF metering' containing a list of troubleshooting steps and a technical diagram. The diagram shows a fuel supply pump and gauger connected to an AdBlue/DEF pump. The bottom status bar shows 'B17.2.2.2 Demo Days of licence: 236', a 55% battery level, and the time 13:29.

Search in the symptoms list

### Insufficient AdBlue/DEF metering

- + Step 5.4: Check the pipe that connects the AdBlue/DEF pump to fuel supply pump and gauger.
- + Step 6: Check the AdBlue/DEF pump.
  - Step 6.1: Check the anti-return valves.
  - Step 6.2: Check the prefilter.

Insufficient AdBlue/DEF metering Troubleshooting

## 3.6 Renault Trucks

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### V4 Technologies

**EMS**, New activations (Fan clutch, Engine brake, ...), injector coding for previous missing variants of the injector type (also included for V2 technologies), ...

**Note:** The EMS for V3 technologies adds the DPF and SCR Regen.

**HMI/OM**, New activations (Cruise Control, Display, ...).

**EBS**, System Reset after the replacement of some components.

**INS**, New activations.

**APM**, Maintenance functions (Compressor, Reset, ...) The Air Dryer through the VECU.

**TECU**, Clutch calibration after the replacement of the clutch disc.

**CCM**, Calibration of the stepper motor of the climate control unit.

## 3.7 Volvo Trucks

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### V4 Technologies

EMS, New activations (Fan clutch, Engine brake, ...), injector coding for previous missing variants of the injector type (also included for V2 technologies), ...

**Note:** The EMS for V3 technologies adds the DPF and SCR Regen.

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CCM, Calibration of the stepper motor of the climate control unit.

System Displays for Volvo V4, Relays and Fuses boxes depending on the engine type (D9A, ...) 

# 3.7 Volvo Trucks

jaltest | GRP | ETM | PASS THRU

Navigation: \ ... \ ... \ FH V4 Euro 6 [2013 - .....] \ ACM, Exhaust gas treatment system | Disconnect

MEASUREMENTS \ SYSTEM DISPLAY \ System state 1/1

System components and data:

- DIESEL PARTICULATE FILTER, DIFFERENTI...: 20 mbar
- REMAINING TIME FOR THE ADBLUE/DEF...: 4 min
- ADBLUE/DEF TEMPERATURE IN T...: 282 K
- ADBLUE/DEF TANK LEVEL: 44 %
- ADBLUE/DEF PUMP, TEMPERATURE: 329 K
- ADBLUE/DEF PRESSURE: 3460 mbar

Legend: 1. — (blue), 2. — (black), 3. — (red), 4. — (green)

Bottom status bar: B17.2.2.2 | Demo | Days of licence: 236 | 47% | 13:55

New System Display in Volvo

## 4.1 Buses: Otokar, King Long, ...

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*FLC, LDW.. Jaltest knows about the importance this kind of systems has today so we are working on increasing the coverage and it is expected to include the cameras calibration in all brands.*

### Knorr-Bremse

FLC20 (Forward Looking Camera), Selection in Generic buses (e.g. Otokar Euro 6)   
ABS 6, New control of variant codes. 

### Wabco

Wabco OnGuard Plus (Forward Looking Camera). Selection in Generic buses (e.g. King Long Euro 6) 

Wabco OnLane (Lane Departure Warning) 

## 4.2 Buses: Irisbus, MAN, Mercedes-Benz, Volvo...

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*Apart from the trucks development on this brands, Jaltest tends to work on the specific systems of the specific coaches and buses based on the its chassis.*

### Irisbus

ATC (via CAN), manual diagnosis 

### MAN

ECAS CAN, Important adjustments for articulated buses.

### Mercedes-Benz, Setra

GS, new tests specific for buses e.g. clutch test.

ACM, DPF replacement for engines with two filters

### Volvo

7900 H 



## 4.2 Buses: Irisbus, MAN, Mercedes-Benz, Volvo...

The screenshot displays the jaltest diagnostic software interface. At the top, there is a navigation bar with the jaltest logo, a search icon, and several function buttons (GRP, ETM, PASS THRU). Below this is a breadcrumb trail: \... \... \MAGELYS Euro 6 \ATC CAN, Automatic Temperature Control. A search bar prompts the user to "Introduce the manual diagnosis code" with a placeholder "Enter the error code".

The main content area features a large, semi-transparent watermark that reads "Eclipse Technology Ltd". Overlaid on this is a diagram of a climate control system. The diagram shows a central control unit with various icons representing different climate functions. Labels point to specific components: S10/D10 (top left), S7/D7 (top right), S8/D8 (bottom right), and S9 (bottom right). Below the diagram, the text "Reading and clearing of error codes" is partially visible.

The left sidebar contains a "Diagnostics menu" with options: System technical data, Diagrams, Vehicle service data, Vehicle technical data, Troubleshooting by symptoms, Releases and Procedures, and Repair times. The bottom status bar shows "B17.2.2.2", "Demo", "Days of licence: 250", and the time "13:56".

ATC (Automatic Temperature Control) for Euro 6 models

## 4.3 Buses: Other brands

*Apart from the trucks development on this brands, Jaltest tends to work on the specific systems of the specific coaches and buses based on the its chassis.*

Irizar 



Credo

New Euro 6 models

Econell, Inovell, Optinell 



**Note:** Please, keep in mind that for buses is really great to use the customization possibilities which are offered by Jaltest Soft.

Solaris

New Euro 6 models

Urbino, Interurbino 



## 5.1 Trailer systems

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*All Trailer EBS systems: Coming up the possibility to change all parameters of the EBS pressure chart in only one screen and graph it directly.*

### Knorr-Bremse

TEBS Gen2, Copy and paste parameters for TEBS Gen 2.2. ES2090. Please, look at the C.N. coverage during the connection on the system.

### Wabco

Conversion of \*.eol files.

Trailer EBS E, New parameters: eTASC suspension, ...

ELEX, Modification of GIOs 13, 14, 15 & 16. New Diag. ids are controlled.

### Haldex

New EOL (End of Line) test in which the user can select the tests to carry out.

EB + 1st and 2nd Gen, Connection through ISO 7638, ODR reset, ...

# 5.1 Trailer systems



System Display to measure all values of the brake pressure lines

## 6.1 LCV: PSA Group, Mercedes-Benz

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*LCV systems are always updated, new systems are developed for the newest models of the market.*

### PSA Group

SID 208 (2011 - ), Injector coding and new measures as a part of the different tests what is a highlighted improvement

### Mercedes-Benz

ESP 9 CEI, ESP sensors calibration.

“Jaltest team does not forget including new wiring diagrams, currently Kombi and Klima 7.0/7.1 in MB Vito”

# 6.1 LCV: PSA Group, Mercedes-Benz

PARAMETERS \ INJECTOR CODE \ MODIFY PARAMETERS

**TAKE CARE TO ENTER THE INJECTOR CODES EXACTLY AS THEY ARE SHOWN ON THE INJECTOR LABEL.**

NUMBER OF CHARACTERS: 6

NEXT, ENTER AND/OR SELECT VALUES OF THE PARAMETERS THAT YOU WISH TO SET

INJECTOR CODE, CYLINDER 1	9EDJFG	<input type="text" value="9EDJFG"/>
INJECTOR CODE, CYLINDER 2	A4EHGH	<input type="text" value="A4EHGH"/>
INJECTOR CODE, CYLINDER 3	8EAJCF	<input type="text" value="8EAJCF"/>
INJECTOR CODE, CYLINDER 4	9AEHEG	<input type="text" value="9AEHEG"/>

New CONFIG COMBO EDIT to configure the parameters of the systems

## 6.2 LCV: Iveco, Volkswagen

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### Iveco Daily

New models *Iveco Daily (2016 - )* 

ABS 8, System purge.

ESP 9, ESP sensors calibration.

ECAS 4x2 S2000, Calibration of the height sensors.

### Volkswagen

New family T6 (*Caravelle , California, Multivan, Transporter*) 

EDC 17 C54 UDS, DPF differential pressure sensor and EGR valve reset.

## 7.1 Others: Asian brands

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*The project is continuously being updated in all markets, here you go with the highlighted update of 17.2 in the Asian market.*

### Isuzu

New control of variant codes for 4HK1-TC, 4JJ1-TC, ... Troubleshooting by errors in several systems.

### Mitsubishi Fuso

HVAC (Heating Ventilation and Air Conditioning) 

Fuso EEC (Engine Type 4P10), DPF Regen. The manual process is also included.

### Hino

Lot of engine types are covered including activations and special functions such as the injector calibration for the engine type J05D-TF (K line) from 17.2 on.

“Please, ask to Jaltest support for the availability of some functions through ADV mode in these brands”



## 7.1 Others: Asian brands

The screenshot displays the jaltest software interface. At the top, there is a toolbar with various icons including a globe, eye, list, calendar, printer, camera, and help. Below the toolbar, a navigation bar shows the current location: "... \ ... \ Canter, engine: 4P10 \ EEC, Electronic Diesel Control, Common...". A "Disconnect" button is visible on the right side of the navigation bar.

The main content area is titled "MAINTENANCE \ PARTICULATE FILTER MANUAL REGENERATION". Below this title, the procedure is described as "Manual diesel particulate filter regeneration (DPF)". The steps are as follows:

- Step 1.3: Make sure the air conditioning is switched off and the power take-off inactive.
- Step 1.4: Establish the engine speed rate at 650 rpm.
- Step 1.5: Press DPF switch until the lighter indicator stops flashing and remains illuminated.

Additional information provided includes: "Regeneration starts when the engine speed rate reaches 1500 rpm.", "This test may take between 20 and 30 minutes approximately.", and "When the process has been concluded, the DPF warning lamp will be turned off."

At the bottom of the main content area, there is a photograph showing a close-up of a control panel with several buttons. The rightmost button has a red indicator light and a symbol that matches the DPF warning lamp icon.

The interface also features a left-hand navigation menu with options: "Diagnostics menu", "System technical data", "Diagrams", "Vehicle service data", "Vehicle technical data", "Troubleshooting by symptoms", "Releases and Procedures", and "Repair times".

The bottom status bar shows the version "B17.2.2.2", a "Demo" label, "Days of licence: 236", a battery level of "98%", and the time "9:41".

The manual procedure as a part of the workflow once the user connected on the system

## 7.2 Others: Vehicle Technical Data, ...

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*Jaltest project has a group of experts available and the technical support team together adding vehicle technical data version by version.*

- **Get a standard** for images and the technical data sheet.
- **New procedures** as *'Intake and exhaust valves adjustment'* for engines MAN D2066 and D2676 Euro 6.
- **New engines** as the *Iveco 10,3 VGT 460 (F3A E3681Y)*
- **Add new data** for available engines in previous versions.

**Other markets coverage:** Volkswagen Brazil, U-ABS Trailer Brazil, South America, Korean, ...

**Generic Systems:** Cummins systems evolution, ZF Traxon 

“The technical data of more than 35 LCV engines have been reviewed for the version 17.2”

●.cojali

●.COJALI  
SYSTEMS

●.defidiffusion

●.cojali  
ITALIA

●.cojali  
USA

●.cofan

VINASORO  
★★★★

defi**AUTO.**

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reman

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