



INNOVATIONS 22.2

SOFTWARE INNOVATIONS

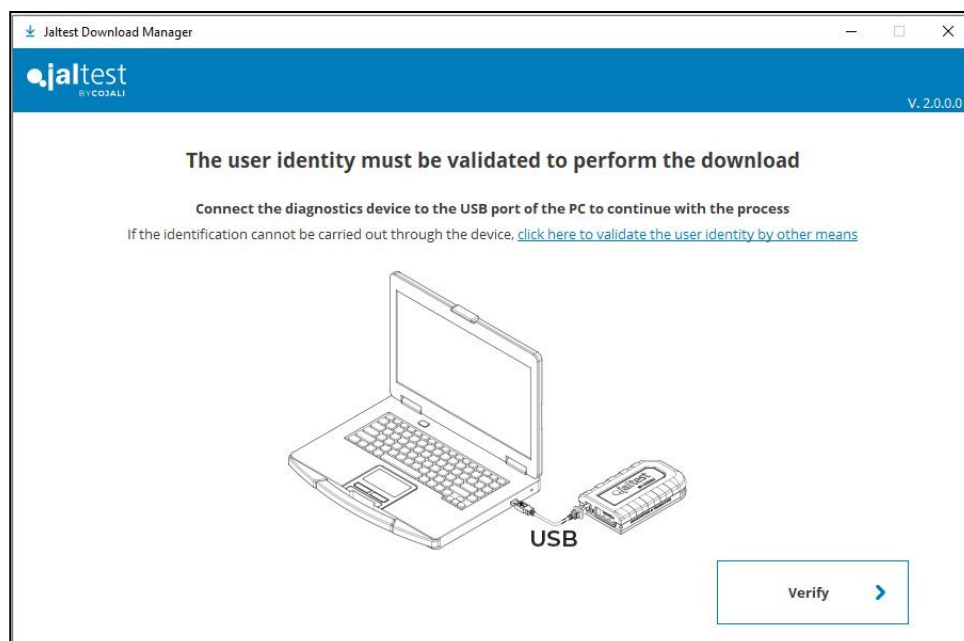
The new software version Jaltest 22.2 once again offers more improvements and innovations that consolidate this tool as a benchmark in multibrand diagnostics for commercial vehicles, agricultural equipment, OHW equipment, material handling equipment and vessels.

From this version, products with licence in force and expired licence can be combined. All clients with licence in force for several products (CV, AGV, MHE...) from 1st January 2022 may renew only some of them without losing access to the rest. The following considerations must be taken into account:

- The renewed products will expire on the same expiration date.
- This behaviour is available from 22.2 version. Please note that access to non-renewed products will be removed with older versions.
- Once using 22.2 Jaltest version or subsequent versions, the diagnostics coverage of non-renewed products will be locked in the version to which you were entitled according to their expiration date.
- The behaviour for the access to non-renewed products will be the same as for products with expired license (currently without access to technical information).

Jaltest Download Manager

Jaltest Download Manager is publicly available to all users on the web. This programme manages the downloads of the versions that correspond to each Jaltest user. It may be useful for first installations when purchasing the device.

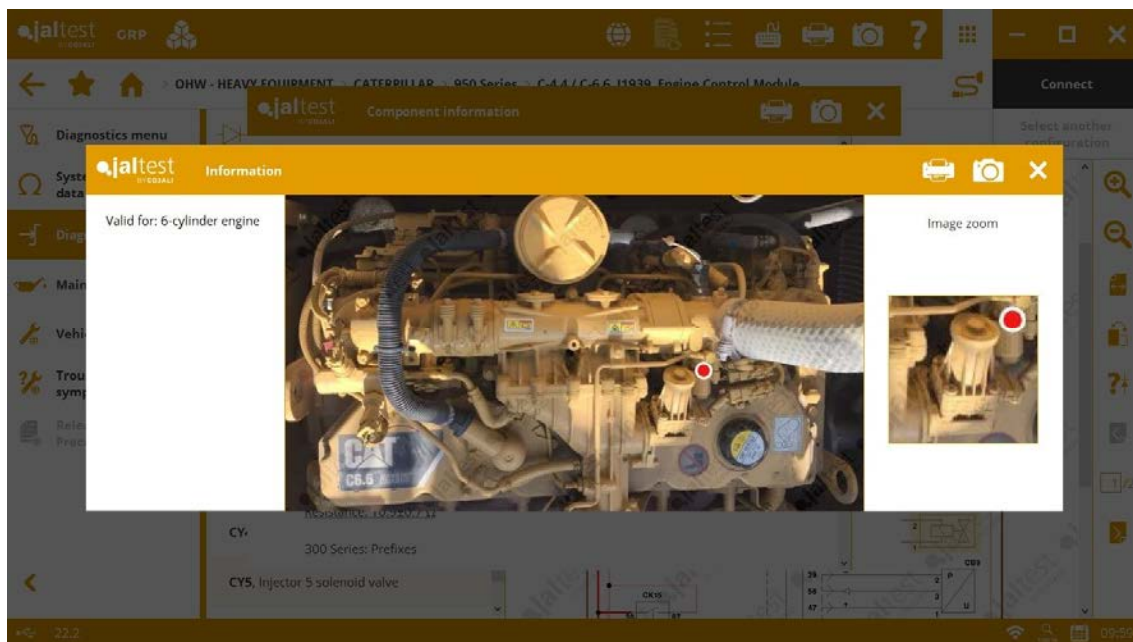


Unknown variants resolution through other brand models

If the reference of a system is unknown, the user will be able to search if any system of the same type contains a variant with the same identifier. Only systems within models of the same brand will be searched.

If the user accepts, the models that contain the found system will be displayed and, after selecting any of them, the system to which the variant belongs will be preselected.

Image zoom



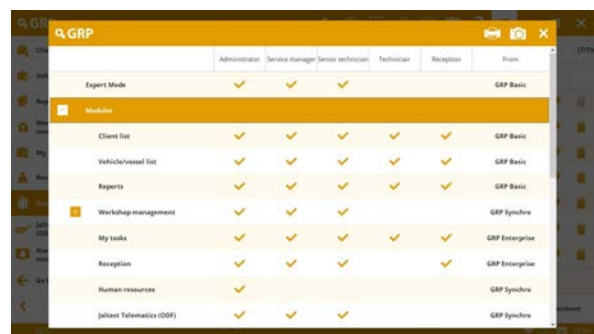
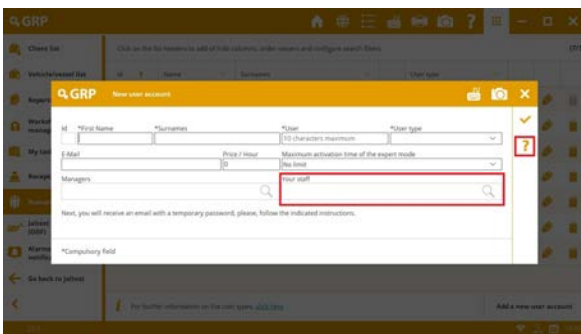
Other functionalities

- Sending of audios through Jaltest Feedback.
- Expert mode timer. In GRP, it will be managed by the administrator for each of the users.
- Displaying of measurement indicators in steps on table.
- Displaying of interactions in SYSTEM DISPLAY visualisations in the steps of an action.
- SMART guides improvements.

GRP

User management improvement

The Service managers can be in charge of a customised group of users, therefore in GRP Enterprise they can manage work orders and tasks only for this group. The management is performed by the Administrator through the Human Resources menu. In addition, in this same menu, a reporting table with the permissions for the different GRP user roles is included.

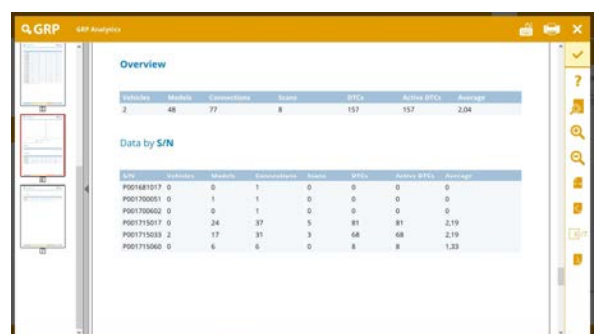
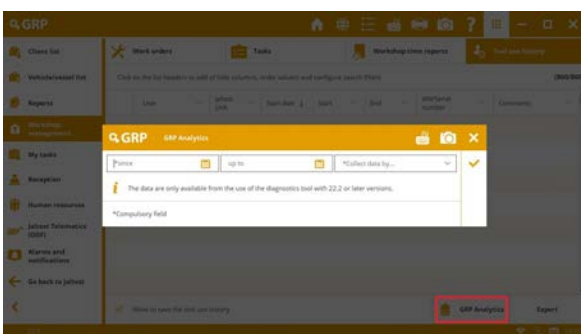


Attention! It is important to note that all GRP users previously created as “Service manager” change to “Senior technician” in 22.2, maintaining the same features. The “Service manager” user can now access the same menus and settings of the programme than the “Administrator” user, except for the Human Resources menu. In this way, all management will not be in the hands of the “Administrator” user.

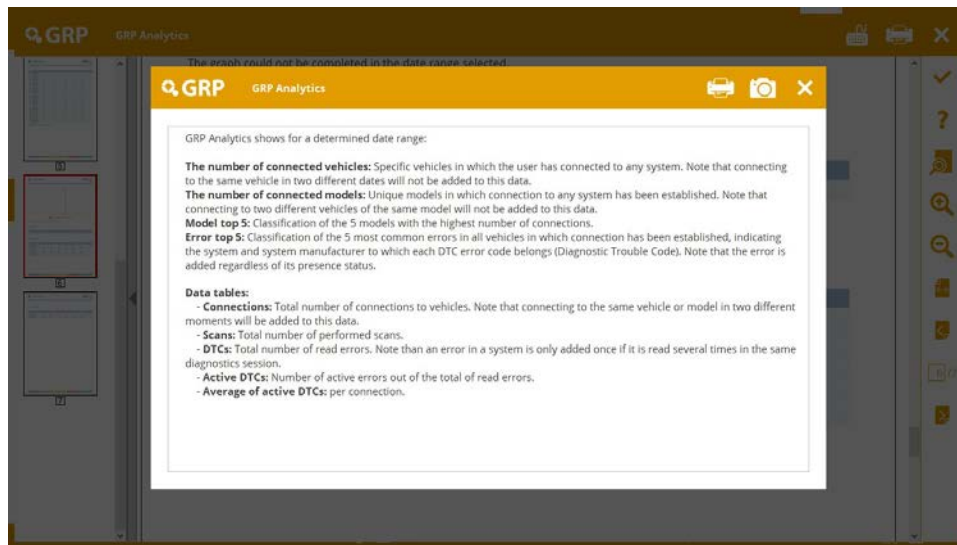
GRP Analytics

GRP Analytics, located in Workshop management > Tool use history > GRP Analytics, is a functionality that allows the Administrator and Senior technicians to obtain statistical data on the use of Jaltest either from one device or from several devices in GRP Enterprise, as well as from each of the users.

Once the date range is selected, the date can be grouped by day, week or month.



Which data are displayed?



BRANDS AND MODELS

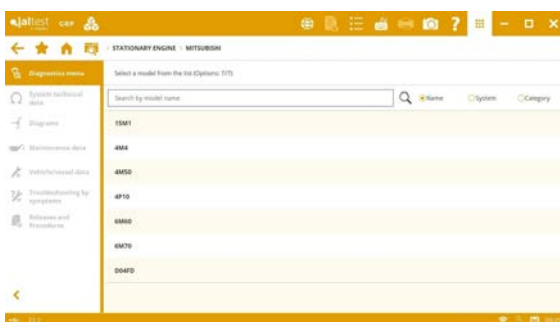
Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

OHW - HEAVY EQUIPMENT

TADANO FAUN

Increased number of models. That includes 8 families and 25 new models.

OHW - COMPACT EQUIPMENT



In this version the following brands have been added: **EUROCOMACH, GIANT, HOLDER** and **MITSUBISHI**. Some of the brands with new models in Jaltest are listed below.

Brands with new models: **AUSA, BOBCAT, CASE CE, NEW HOLLAND CE, SANY** and **WEIDEMANN**.

DIAGNOSTICS AND SYSTEMS

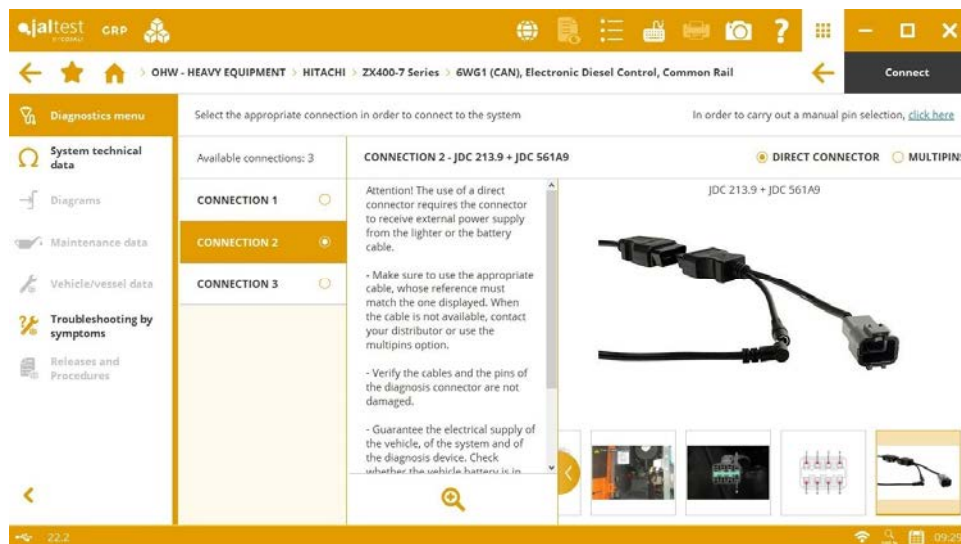
Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

It is important to note the continuous development of advanced functions. For example, the **Allison 3000/4000 5th Gen** transmission now has system configuration and adaptive shift functions. In addition, new dynamic **System Display** available to help better understand the performance of the systems and processes, such as the gear shift in **Allison 3000/4000 4th Gen**. In heavy duty vehicles, brands such as **BELL** or **GROVE** have **Allison** transmissions installed.

The **EMR4 – EDC 17 CV52 Deutz** engine control system also applies to several brands. It includes the throttle valve check in the intake manifold, the Diesel Particulate Filter replacement and the soot content reset. **ECM Kohler Tier 5/Stage V** engine control system in brands such as **JCB** or **PIQUERSA**, among others. It includes the throttle valve check in the intake manifold and the engine shutdown test. The reset of the Pressure Relief Valve (PRV) has been developed in **Kohler Final Tier 4/Stage IV** engines.

OHW - HEAVY EQUIPMENT

New **JDC 560A9** and **JDC 561A9** cables for **Isuzu** engines in **HITACHI** and **JOHN DEERE CE** machines.



CATERPILLAR

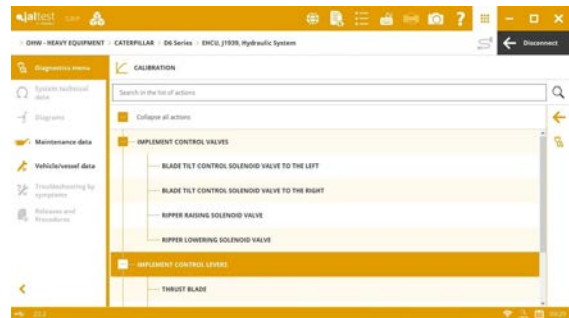
(On SAE J1939) **Caterpillar** engine control systems, air dosing check and heater check of the exhaust gas aftertreatment system.

C-4.4 and **C-6.6** (on CDL) engine control systems, check of the turbocharger wastegate valve.

ARD exhaust gas aftertreatment system, air dosing check of the exhaust gas aftertreatment system.

EHCU (on SAE J1939) hydraulic control system, calibrations.

MCM central computer for **D Series** dozers, transmission calibration, service brake calibration and steering control joystick calibration.



In addition, new wiring diagram configurations available in the brand. For example, in the **IC** instrument cluster for **320 Series** crawl excavators, in the **C-4.4** engine control system for **M310 Series** wheel excavators and in the **MCM** central computer for **960 Series** wheel loaders, among others.

GRADALL

EMS V3 Volvo engine control system, preheating activations, heat preservation check and parameter modification concerning the engine heating.

HIDREMA

ECM Perkins 1100D Series engine control system, cylinder cut-out.

JCB

Technical data in new engine types of **X Series** family models.

KÄSSBOHRER GELÄNDEFahrZEUG

Wiring diagram configurations in the **EDC VW** system in **Canyon** model.

TEREX

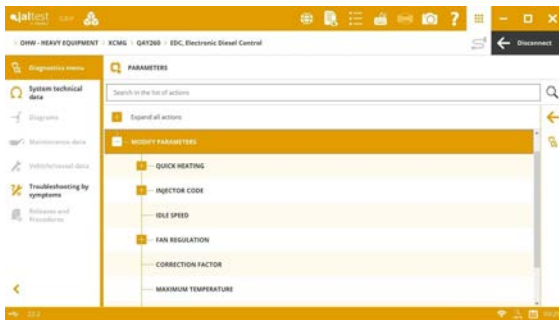
⊕ **Allison CEC2 5000/6000/8000/9000 Series** transmission.

VOLVO CE

IC instrument cluster, accelerator pedal check.

V2ECU vehicle electronic control unit, float valve check and parameter configuration of the raising/lowering and loading/dumping control valves.

Wiring diagram configurations in the **CU** climate control systems for **A Series** articulated haulers.



XCMG

EDC V2 Volvo engine control system, idle speed configuration and injector coding.

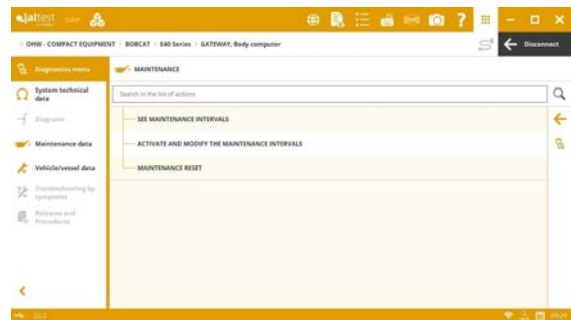
WEILER

ARD exhaust gas aftertreatment system, air dosing check of the exhaust gas aftertreatment system.

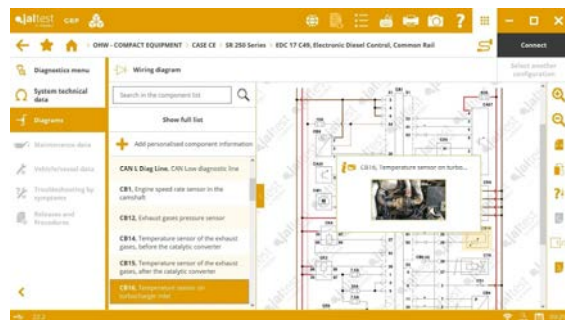
OHW - COMPACT EQUIPMENT

BOBCAT

- ⊕ **Gateway** module for **E Series** compact excavators.
- ⊕ **IC** instrument cluster for **430 Series** compact excavators.



CASE CE



Wiring diagram configurations of the **EDC 17 C49** engine control system for **TR 300 Series** and **TV 300 Series** models, and **EDC 7 UC31** engine control system for SR 220 Series and SR 250 Series skid-steer loaders.

CATERPILLAR

C-4.4 and **C-6.6** (on CDL) engine control systems, check of the turbocharger wastegate valve.

MCM central computer for **D Series** dozers, transmission calibration, service brake calibration and steering control joystick calibration.

In addition, new wiring diagram configurations available in the brand. For example, in the **C-6.6** engine control system for **910 Series** compact wheel loaders and in the **MCM** central computer for 430 Series backhoe loaders, among others.

DIECI

Technical data in new engine types of the **AB 7000 Series** model.

HITACHI

New **JDC 560A9** and **JDC 561A9** cables for **Isuzu** engines.

JCB

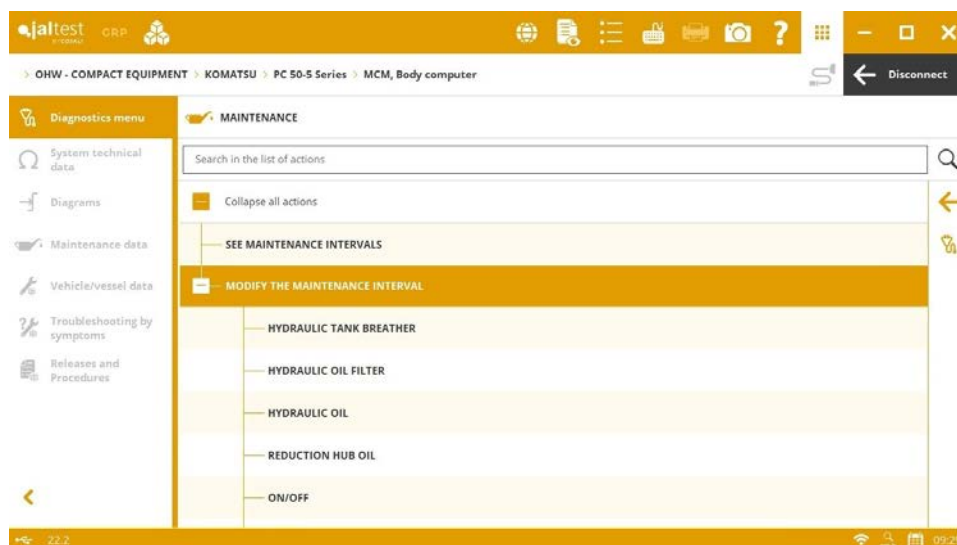
ECM (on SAE J1939) **Perkins** 403J/404J engine control system, injector test, intake/exhaust valve check, injection rail pressure test, etc.

Transmissions for **CX Series** models, extension of measurements, control solenoid valve activation and warning lamp activation.

Technical data in new engine types of **Hydradig Series** family models.

KOMATSU

- ⊕ **MCM** central computer for monitor N.
- ⊕ Instrument cluster for the monitor N.



VOLVO CE

CCM V3 climate control for **L Series (XY H)** wheel loaders, parameter configuration. In addition, new wiring diagram configurations.

IC instrument cluster, accelerator pedal check.

V2ECU vehicle electronic control unit, float valve check and parameter configuration of the raising/lowering and loading/dumping control valves.

WACKER NEUSON

⊕ **VCU** central computer for compact excavators and compact dumpers.

WEIDEMANN

ECM Perkins 400 Series Tier 4/Stage IV engine control system, activations, cylinder cut-out, injector coding and high-pressure pump calibration.

STATIONARY ENGINE

CATERPILLAR

(On SAE J1939) **Caterpillar** engine control systems, air dosing check and heater check of the exhaust gas aftertreatment system.

Wiring diagram configuration in the **EMCP** system for **C-3.4B** engines.

CUMMINS

⊕ **QSF 2.8/3.8 CM2880**

⊕ **4D95 3.3 CM2350**

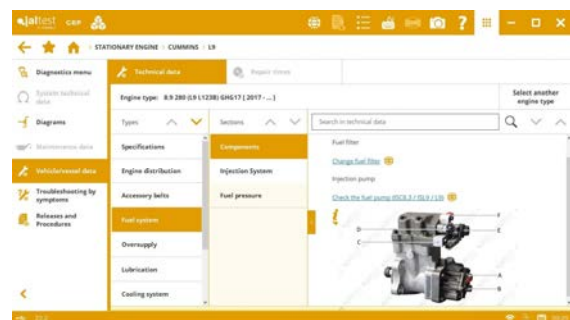
⊕ **F3.8 CM2350**

All systems include extensive coverage of advanced functions.

B4.5/6.7 CM2350 engine control system, fan activation, parameter modification of the fuel economy configuration and the switching off MIL lamp reset.

QSB 4.5/6.7 CM2350 engine control system, parameter configuration of the engine brake and the starter motor locking.

Technical data in engine types of the **L9** model.



DEUTZ

EMR4 EDC 17 CV52 and **EMR5 EDC MD1** wiring diagram configurations in several brand models.

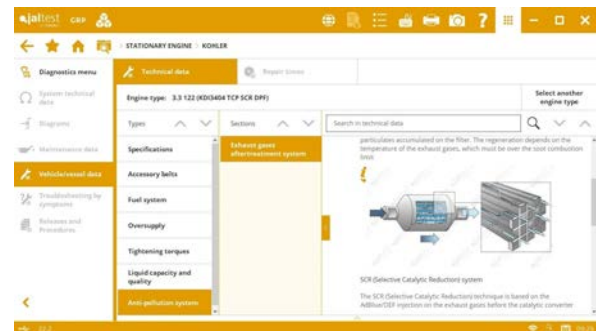
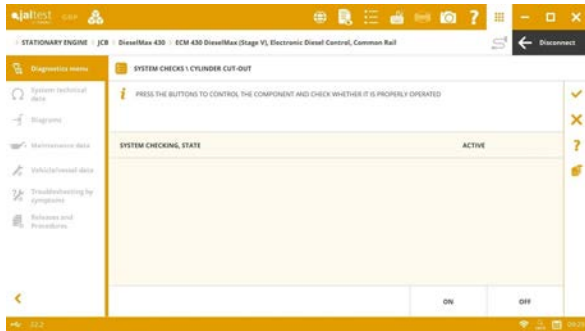
JCB

⊕ **DieselMax 430 (Stage V)** engine control system.

Technical data in several engine types, for example in the **EcoMax** model, among others.

KOHLER

Technical data and wiring diagram configurations.



PERKINS

ECM 400 Series Tier 4/Stage IV engine control system, activations, cylinder cut-out, injector coding and high-pressure pump calibration.

ECM 1100D Series engine control system, cylinder cut-out.

Technical data of the **904J** engine.

VOLVO PENTA

EMS V3 engine control system, preheating activations, heat preservation check and parameter modification concerning the engine heating. This version, this system also includes new wiring diagram configurations in the stationary engine paths.

EDC V2 engine control system, idle speed configuration and injector coding.

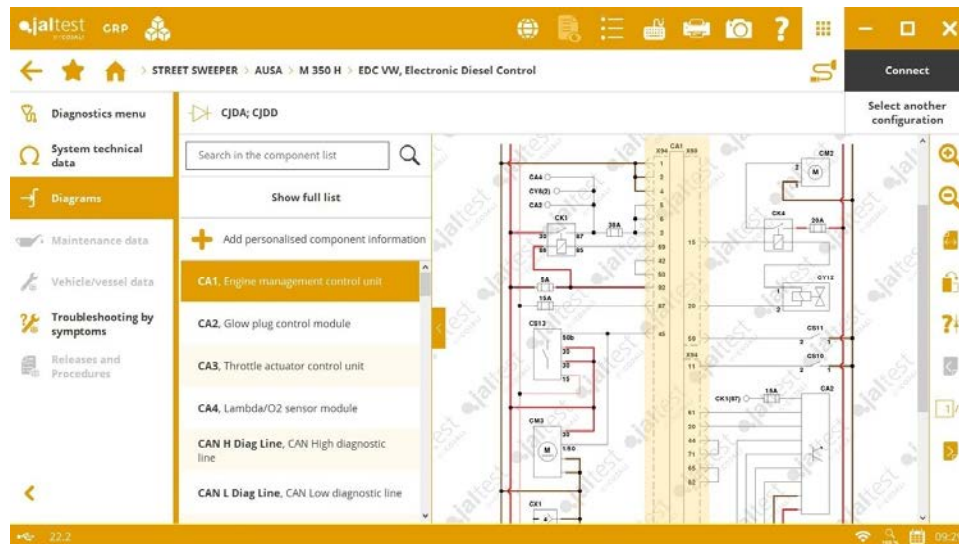
Technical data of **D5**, **D6** and **D7** engines.

YANMAR

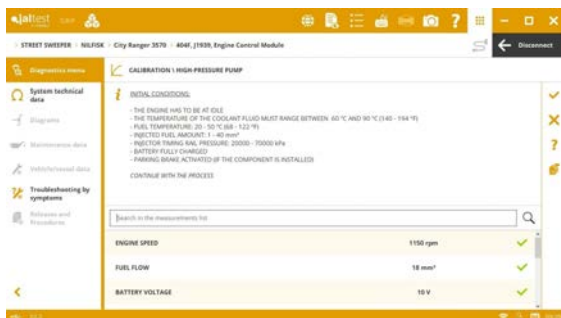
EDC Denso engine control system, Diesel Oxidation Catalyst replacement (DOC).

MULTI-PURPOSE VEHICLE

Wiring diagram configurations in the **EDC VW** system in models of **AUSA**, **BOSCHUNG**, **CMAR** and **SCHMIDT** brands.



NILFIX



ECM 400 Series Tier 4/Stage IV engine control system, activations, cylinder cut-out, injector coding and high-pressure pump calibration.

PIQUERSA

ECM (on SAE J1939) Perkins 403J/404J engine control system, injector test, intake/exhaust valve check, injection rail pressure test, etc.

RAVO

Technical data in engine types of **5 Series** family models.

SCARAB

EMR4 – EDC 17 CV52 Deutz engine control system. It includes the throttle valve check in the intake manifold, the Diesel Particulate Filter replacement and the soot content reset.