



jaltest
OHV
OFF-HIGHWAY VEHICLES

INNOVATIONS 20.2

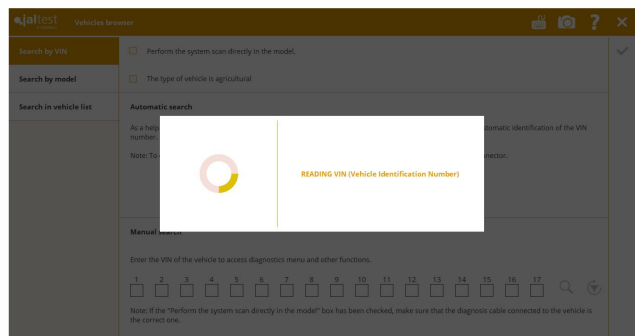
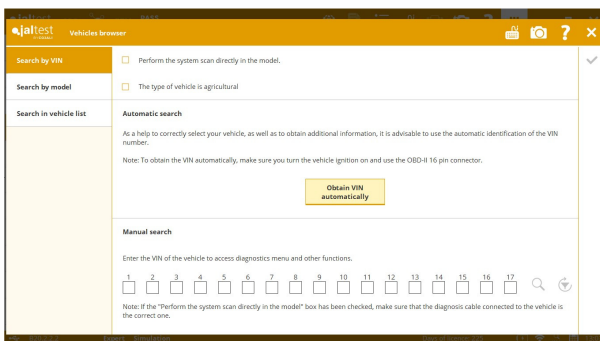
SOFTWARE INNOVATIONS

The new software version **Jaltest 20.2** once again offers improvements and innovations that consolidate this tool as a benchmark in **multibrand diagnosis** for commercial, agricultural and OHW (Off-Highway) vehicles.

Next, the most relevant software innovations are shown.

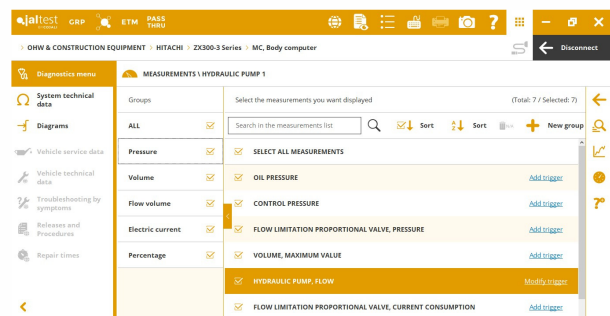
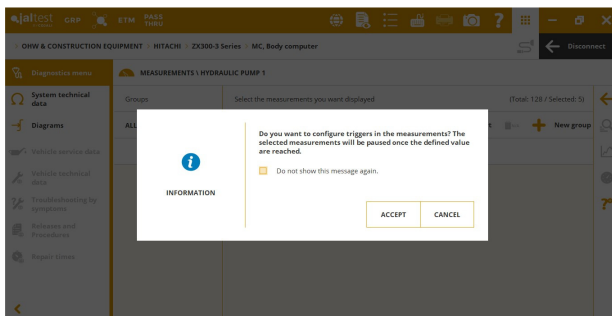
Obtain VIN automatically

In the vehicle browser of the main window of Jaltest, the search by VIN has been divided in: manual search and automatic search. Moreover, the option “Perform the system scan directly in the model” can be checked, which is valid for both searches.

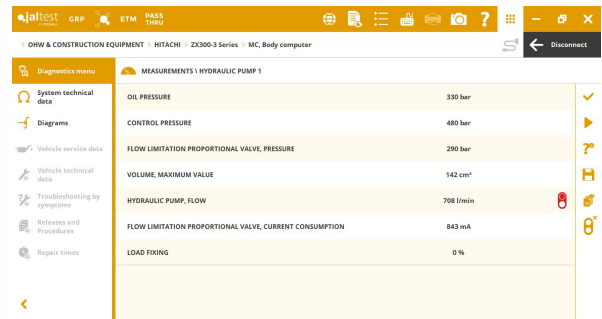
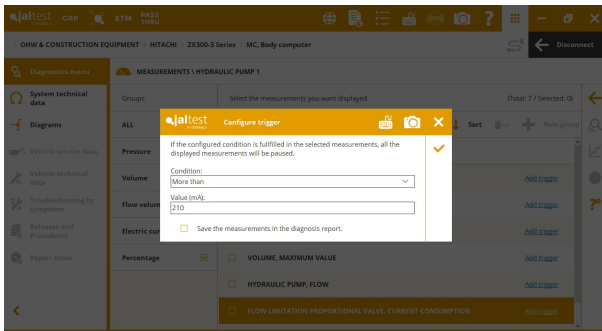


Define triggers in measurements

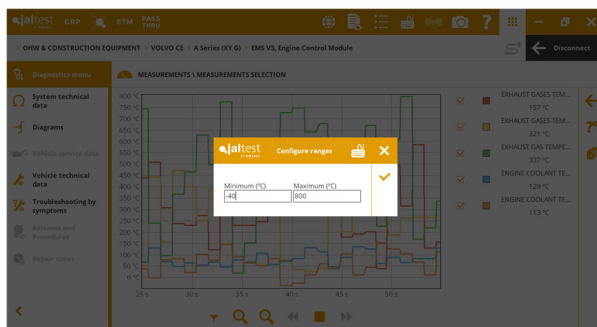
In the measurement selection, triggers can be configured. The selected measurements will be paused once any of the defined values has been reached. The values that can be defined for a measurement are: more than, less than, equal to and different from.



Furthermore, the measurements paused through a trigger or through the corresponding button will save their value in the diagnosis report.



Measurement graph display tools

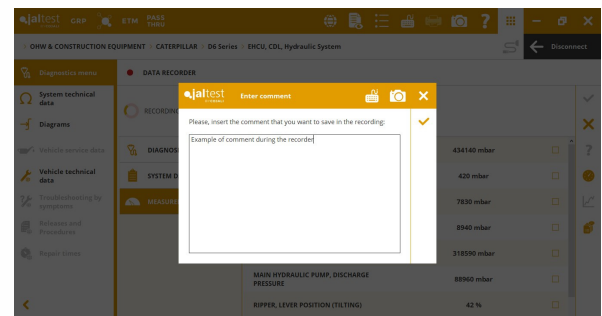
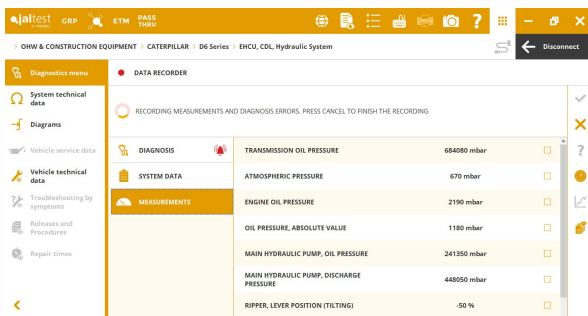


When the measurements are displayed through a graph, it is possible to zoom in them.

Moreover, if all displayed measurements have the same unit, the Y-axis range can be configured by clicking on the "filters" icon on the left.

Improvements in the data recorder

The data recorder has been improved. From now on, the measurements are displayed during the recording and, in addition, triggers can be used to pause the test or to write comments at any moment during the recording. Furthermore, the measurements can be graphed and displayed with instruments.



In the data playback, it is possible to navigate directly to the comments defined during the recording. The comment can be read in the information panel at the bottom.

The screenshot shows the software interface for an EHCUCDL Hydraulic System. The navigation menu on the left includes options like 'Diagnostics menu', 'System technical data', 'Diagrams', 'Vehicle service data', 'Vehicle technical data', 'Troubleshooting by symptoms', 'Releases and Procedures', and 'Repair times'. The central area displays a playback timeline at 00:00:03 / 00:00:42 with a 'Comment' button and a '1 / 1' indicator. Below the timeline is a table of data points:

NUMBER OF PRODUCT OF THE UNIT CONTROL	DEMO_MODE
DEVICE IDENTIFICATION	DEMO_MODE
CONTROL UNIT SERIAL NUMBER	DEMO_MODE
SOFTWARE SET, PART NUMBER	DEMO_MODE
SOFTWARE SET, DESCRIPTION	DEMO_MODE
SOFTWARE SET, PROGRAMMING DATE	DEMO_MODE

An information panel at the bottom shows an example of a comment: 'Example of comment during the recorder'. The bottom status bar indicates the file name 'Name: EHCUCDL, Hydraulic System_27042020124036.scfx' and the date 'Date: 27/04/2020 12:40'.

System Display in functions

The image shows the measurements represented in a System Display during the particulate filter regeneration in a Caterpillar vehicle. The user will be able to evaluate the exhaust gas system in an easy and intuitive way during the test.

The screenshot shows the software interface for a 'MAINTENANCE \ PARTICULATE FILTER REGENERATION' function. The navigation menu on the left is the same as in the previous screenshot. The central area displays a schematic diagram of the exhaust system with various sensors and gauges. The diagram includes a 'DIESEL PARTICULATE FILTER REGENERATION STATUS' table and a 'DIESEL PARTICULATE FILTER, SOOT LEVEL' table.

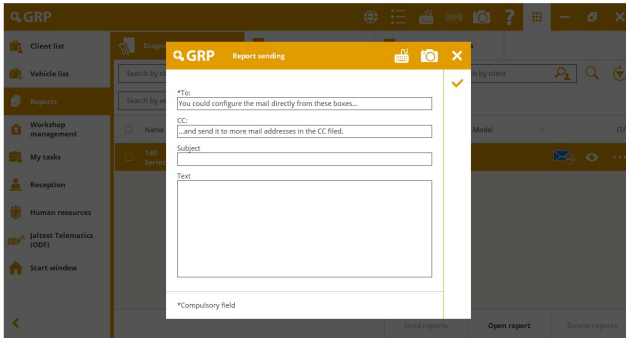
DIESEL PARTICULATE FILTER REGENERATION STATUS	
DRAG POSITION	<input type="checkbox"/>
BYPASS	<input type="checkbox"/>
BYPASS, NOT PRESENT	<input type="checkbox"/>
WHEEL TRACTOR-SCRAPER	<input checked="" type="checkbox"/>

DIESEL PARTICULATE FILTER, SOOT LEVEL	
42	%

The diagram also shows several gauges: 'EXHAUST GAS DIFFERENTIAL PRESSU...' at 3000 mbar, 'DOC' at 45.100, 'DPF' at 60.700, and 'SCR' at 86.300. The diagram includes labels for CO, HC, PM, NOx, N2, and H2O.

GRP

Report sending to an email address

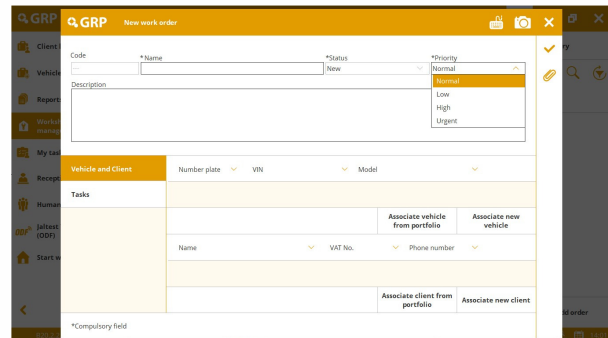


In the last version, the report sending to a customised email address in the configuration menu was presented and, in this version, this functionality is improved allowing the configuration of one or several mailing addresses and the body of the email at the same time.

Priority of the work orders

It is possible to establish a priority in the work orders of GRP Enterprise. The priorities can be: normal, low, high and urgent.

The tasks acquire the priority of the order.



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.

In this version, the **AMMANN, DAEWOO, KAWASAKI KCM, SANY** and **WIRTGEN** brands have been included within OHW & CONSTRUCTION EQUIPMENT vehicle type.

BELL

Brand reorganisation with 1 new family and 5 models.

JLG

It includes 8 new models.

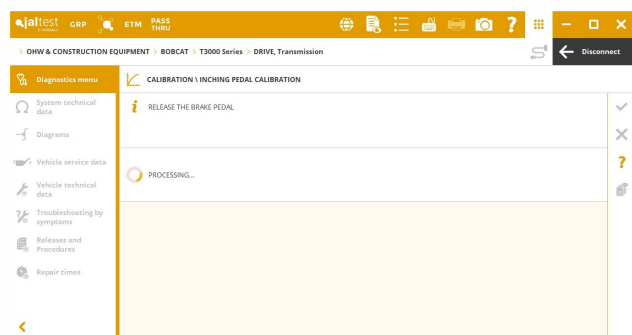
DIAGNOSIS AND SYSTEMS

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.

OHW & CONSTRUCTION EQUIPMENT

BOBCAT

⊕ New **Drive Controller** transmission system developed in telescopic handlers; it is important to highlight the brake pedal calibration.

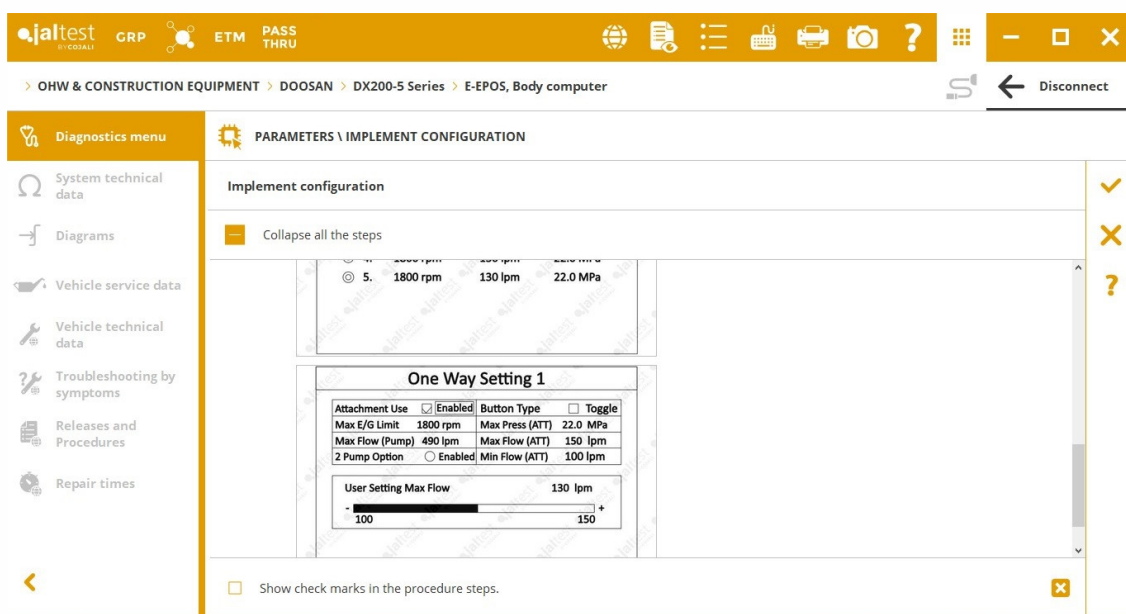


CATERPILLAR CE

C-9.3 engine control system in bulldozers, injector exchange through *.trim files and reset of the ash content of the Diesel Particulate Filter (DPF). This last function has also been developed in the **C-13** engine control system.

DOOSAN

E-EPOS Body computer, implement configuration.



HITACHI

⊕ New systems in excavators, transmission and **Main ECU** body computer.

JOHN DEERE CE

EDC (level 21, 23, 33 and 34) engine control systems, reset of the ash content of the Diesel Particulate Filter (DPF).

LIEBHERR

ECU2-HD engine control systems, actions such as the check of heating valves.

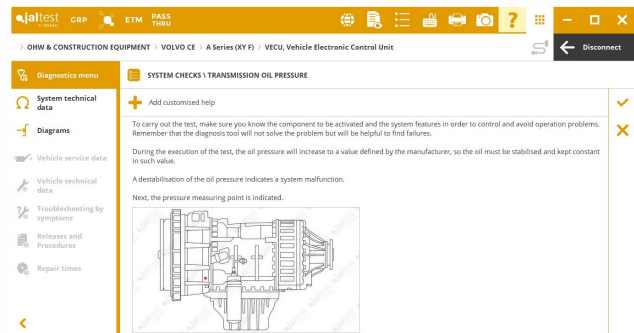
MANITOU

- ⊕ New instrument cluster system in telescopic handlers.

VOLVO CE

Vehicle Electronic Control Unit (VECU), new system checks.

- Check of the transmission oil pressure and the clutch valves in articulated haulers.
- Check of the transmission valves and the gear selector in wheel loaders.



YANMAR

Bosch control system of Yanmar engines, replacement of Diesel Oxidation Catalyst (DOC) and the DPF particulate filter.

STATIONARY ENGINE

CATERPILLAR

- ⊕ **EMCP Genset** engine control system for generators.

CUMMINS

QSL9 CM2350 engine control system, idle speed rate configuration.

DEUTZ

EMR 3 - EDC 16 UC40 engine control system, Pressure Relief Valve (PRV) reset, manual and automatic procedure.

VM

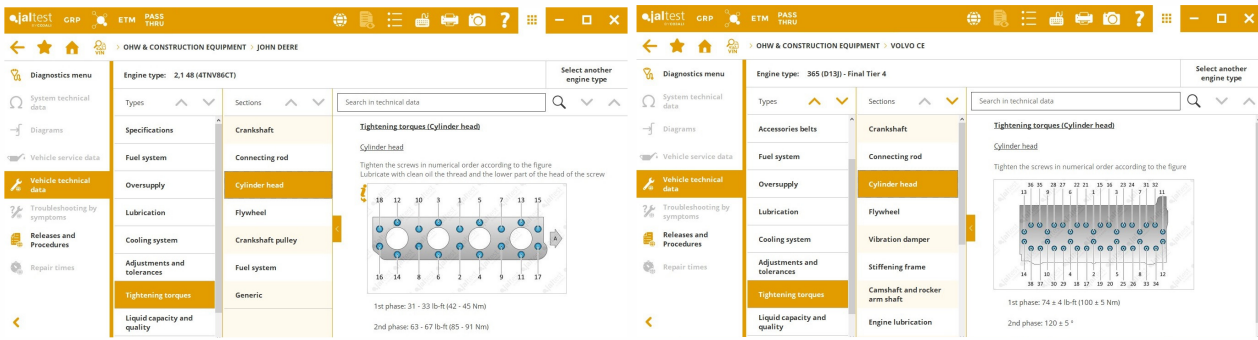
EDC 17 C49 engine control system, actuation of the low oil pressure indicator lamp and of the EGR and throttle control valves.

TECHNICAL INFORMATION

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.

Technical and maintenance data of the vehicle

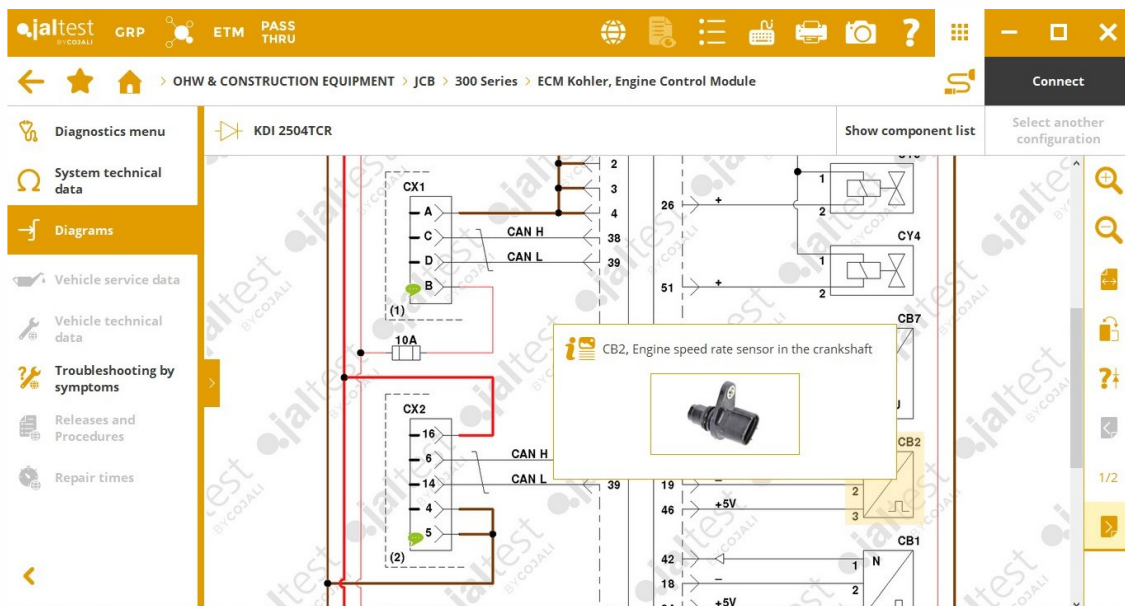
Engine types in compact machinery in **JOHN DEERE CE** and in heavy machinery of **VOLVO CE**, 3.3 (C3B), 6,6 (C6) and 9,3 (C9) diesel engines.



Wiring diagrams and technical information

JCB

Kohler 2504 TCR engine control system.



VOLVO CE

Extension of wiring diagrams in the following vehicle categories: articulated haulers, motor graders and wheel loaders.

System Display

New System Displays during the DPF particulate filter regeneration and in the sulfation recovery process of the exhaust gas aftertreatment system in **CATERPILLAR** and **PERKINS** engines.

