



**jaltest**  
*marine*  
MULTIBRAND DIAGNOSTICS

**INNOVATIONS 21.1**

# SOFTWARE INNOVATIONS

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In this version, Jaltest includes the coverage of the **Jaltest Marine** project. Contact your distributor and acquire now the license that also allows you to diagnose vessels and jet skis with the same device and a single software.

The new software version **Jaltest 21.1** offers improvements and innovations that consolidate this tool as a benchmark in **multibrand diagnosis** for recreational and commercial boats, fishing vessels, rescue boats, etc.

Our **Jaltest University** division includes the entire Jaltest training offer, from courses traditionally taught on-site to online courses or webinars. Thus, we have adapted to the new needs for universal and quality training within the reach and at the disposal of any professional in the sector. First courses will be available soon.



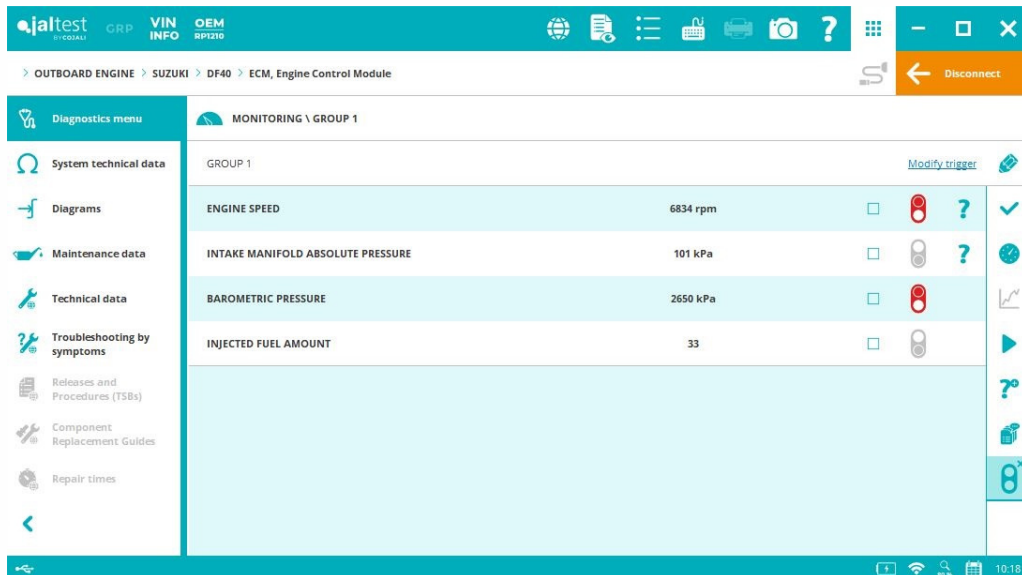
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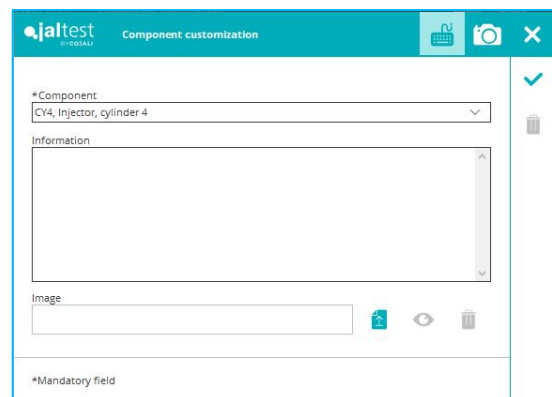
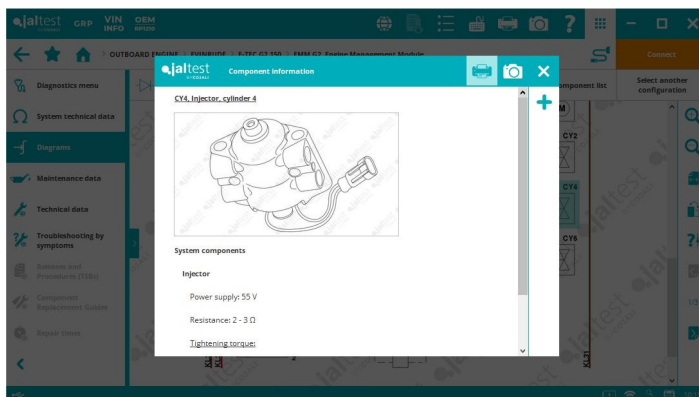
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## Trigger in measurement groups

From this 21.1 version, it is possible to include and edit triggers in measurement groups.



## Customization of component information

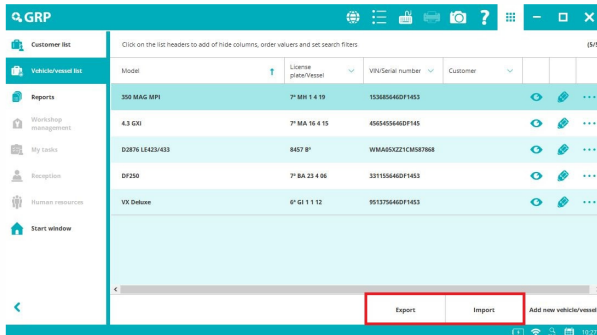


## Others

- Dynamic helps depending on the measurement value in an action.
- Help in the selection of the wiring diagram configuration.
- Fault list order. The present faults are shown first.
- Relevant information on functionalities in the action menu.

# GRP

## Export/Import vessel list



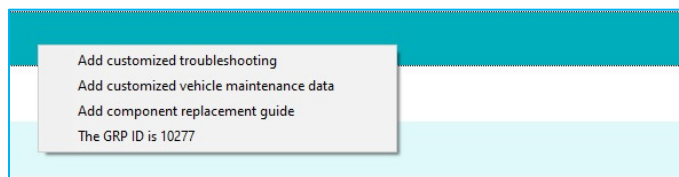
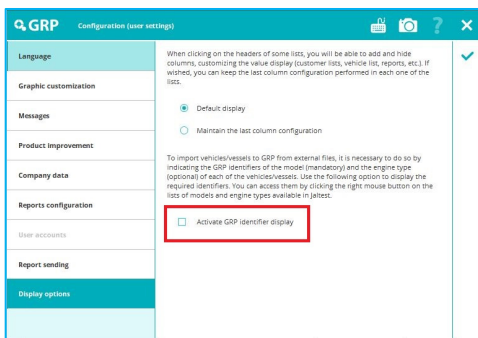
It is possible to export/import the vessel list through Excel or CSV files quickly and easily. This allows the user to share the vessels created in Jaltest with others from other platform or ERP of their company, and vice versa.

To import vessels, an empty template with a defined format or with the data of the vessels that the list has can be generated. In this way, some data could also be modified. It is important not to modify the header value or column position of the table.

Vehicle/vessel code	Model identifier	Engine type identifier	License plate/Vessel	VIN/Serial number	Number or name
1	4432	6400	7 <sup>a</sup> MH 1 4 19	54321	Golden Sea
2	5009	2563	7 <sup>a</sup> BA 23 4 06	1234567	Trabucco II
3	4445	5714	6 <sup>a</sup> GI 1 1 12	331155646DF1453	Elisa
4	4742	6908	7 <sup>a</sup> MA 16 4 15	4785446	Vietcom I
8	5471	7126	8457 B <sup>a</sup>	WMA05XZ21CM587868	Caribbean

The “Model identifier” and, optionally, the “Engine type identifier” must also be

completed in the template. This operation is important. The model identifier will allow you to relate the vessel from the list with a model from Jaltest. This is the only way to enjoy all advantages of being able to create GRP vessels such as, for example, the advantage of associating diagnostic reports. The identifier is obtained by clicking on the right button of the mouse on model/engine type in Jaltest if it has been configured previously.



## Others

- Possibility of associating several vessels to a customer at once.
- Improvement in the GRP lists including more columns and filters.
- App customization by user.

The vessel record, vessel types, brands, customized measurements, graphic configuration, language, measurement units, etc. will be displayed depending on the user who has registered in the application.

# 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.

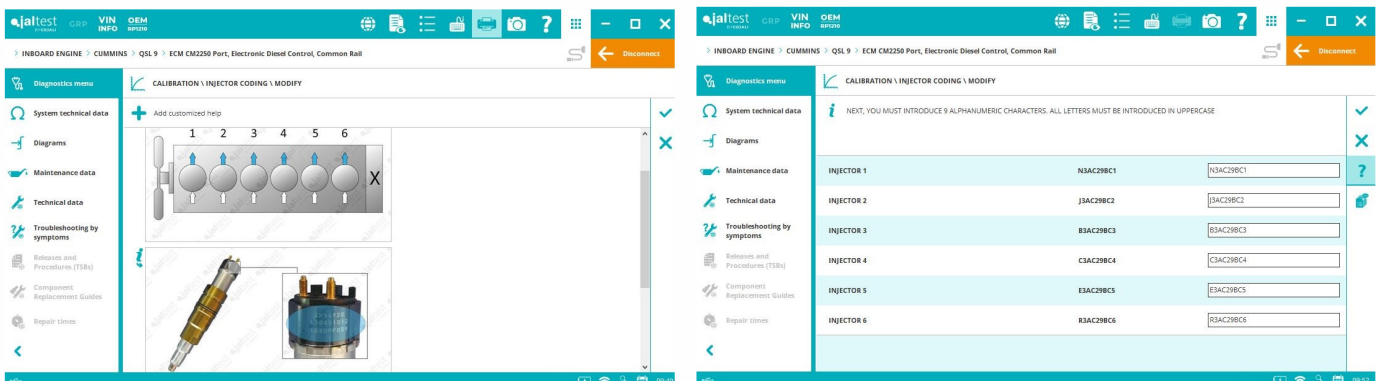
## INBOARD

This version, systems from the **SAE J1587 / SAE J1708** standard of Marine application have been included. A detection system of SAE J1587 / SAE J1708 systems has been implemented, which will be very useful in vessels with Detroit Diesel, Cummins, Volvo Penta, etc., engines. With it, it will be possible to identify and diagnose all the modules that comply with the standard.

## CUMMINS

New functionalities have been included in the following models:

- **QSB 6.7** and **QSL 9 CM2250**: If the control unit is compatible, the injector coding will be available.
- **QSC 8.3** and **QSL CM850**: If the control unit is compatible, the engine operating data can be checked and reset in the operating data.



## DETROIT DIESEL

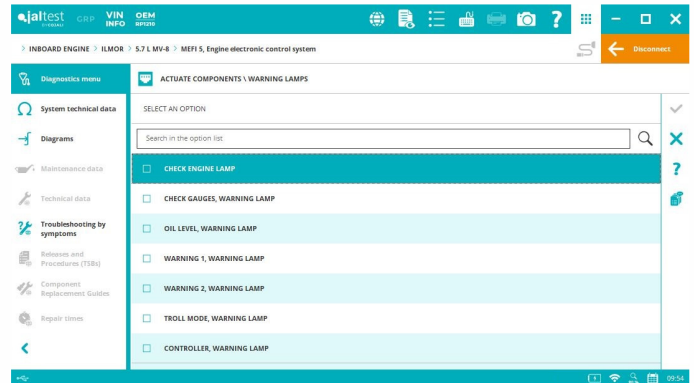
New Detroit Diesel MARINE **JDC 629A** cable.

System Display in the **DDEC III** and **DDEC IV** models.

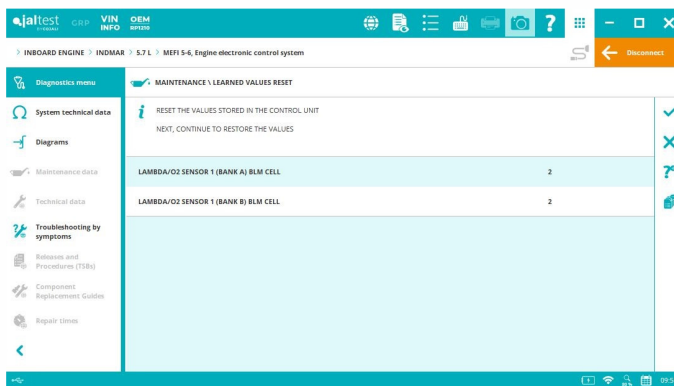


## ILMOR

New functionalities in the **MEFI 5** engine control system of the **5.7 L MV-8**, **6.0 L MV-8** and **6.2 L MV-8** models; proprietary system measurements, activations and reset of learned values.



## INDMAR



New functionalities in the **MEFI 5** and **MEFI 6** engine control systems of the **2.4 L**, **3.0 L**, **4.3 L**, **5.7 L**, **5.7 L HO**, **6.0 L** and **6.2 L** models; proprietary system measurements, activations and reset of learned values.

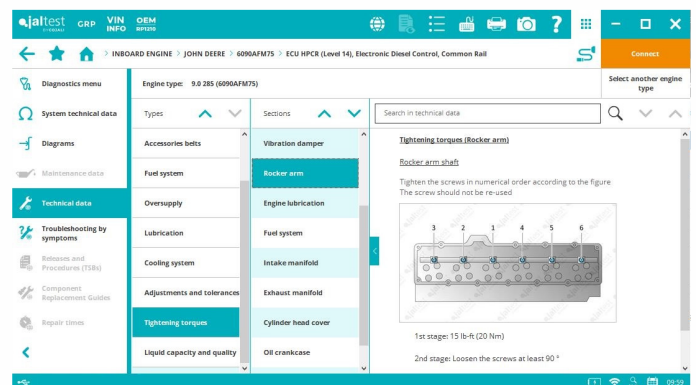
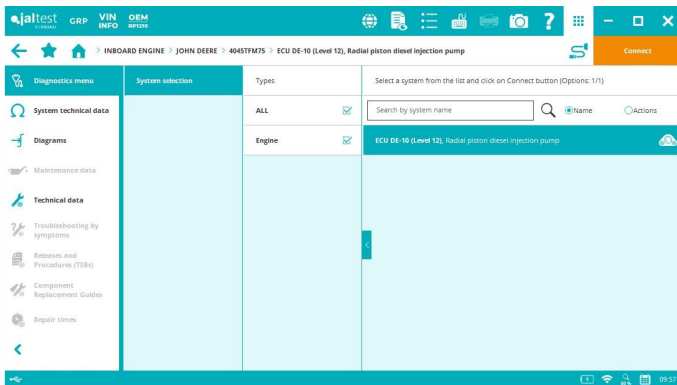
## IVECO-FPT

New **C13 ENT M77**, **C13 ENT M83** and **N67 ENT M57** models with different variants of the **EDC 7 UC31** engine control system. These models have wiring diagrams, technical data of components and troubleshooting by symptoms.

## JOHN DEERE

New **4045TFM75** model with the **Level 12** engine control system with technical information and wiring diagram.

Advanced vessel technical data in all John Deere family models: **4045**, **6068**, **6081**, **6090**, **6125** and **6135**.



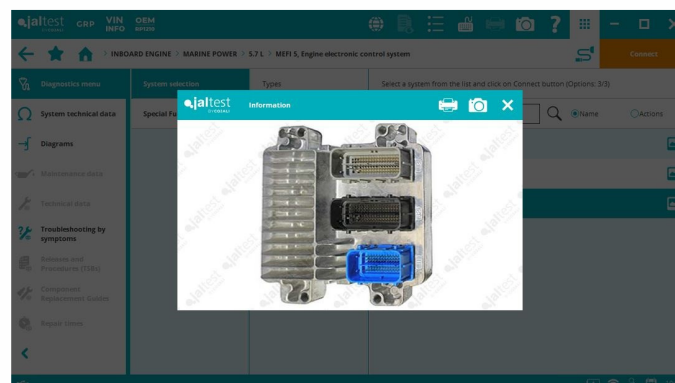
## MAN

New models of the MAN Common Rail **D2862 LE433**, **D2840 LE422**, **D2868 LE433** and **D2848 LE422** engines.

## MARINE POWER

New Marine Power brand with a wide range of engines based on GM: **3.0 L**, **4.3 L**, **5.0 L**, **5.3 L**, **5.7 L**, **6.0 L**, **6.2 L**, **7.4 L**, **8.1 L** and **8.2 L**.

The engine control systems present in the Marine Power models range from the **MEFI 1** system to the **MEFI 7** system. All of them have the most common diagnostic functionalities and technical information from Marine Power GM systems.

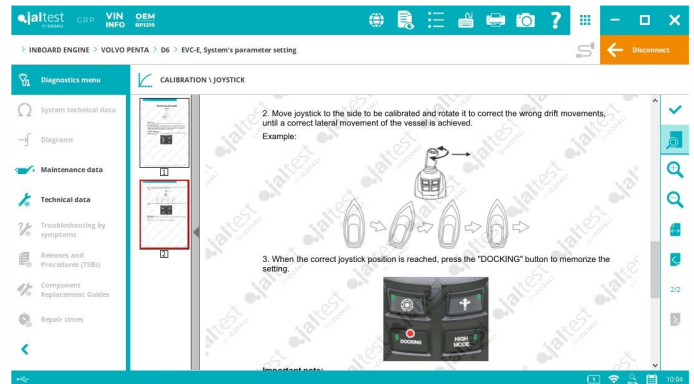
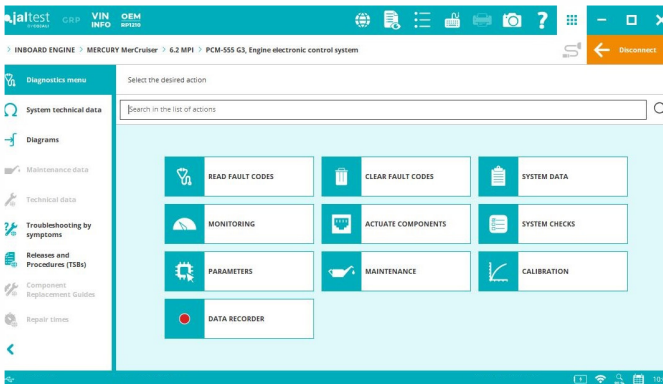


## MERCURY/MERCURUISER

Reorganization of the G3 systems of the models prior to 2012 and new functionalities in the **ECM/PCM G3** and **PCM G3** systems.

These improvements apply to the following models: **100 Vazer**, **4.3 MPI**, **5.0 MPI**, **350 MAG Black Scorpion**, **350 MAG MPI**, **5.7 MPI**, **377 MAG MPI**, **6.2 MPI**, **MX 6.2 Black Scorpion**, **MX 6.2 MPI**, **496 MAG**, **8.1S HO**, **8.1S Horizon** and **8.2 MPI**.

Explanatory technical releases to distinguish the types of engine alarms. It applies to models based on GM and to second generation of the **ECM/PCM** systems.



## VOLVO PENTA

Control Joystick calibration for the **EVC-E** and **EVC-D** systems that apply to the following models: **D11, D13, D3, D4, D6, D9, IPS 1050, IPS 1200, IPS 350, IPS 400, IPS 450, IPS 500, IPS 600, IPS 650, IPS 800, IPS 900** and **IPS 950**.

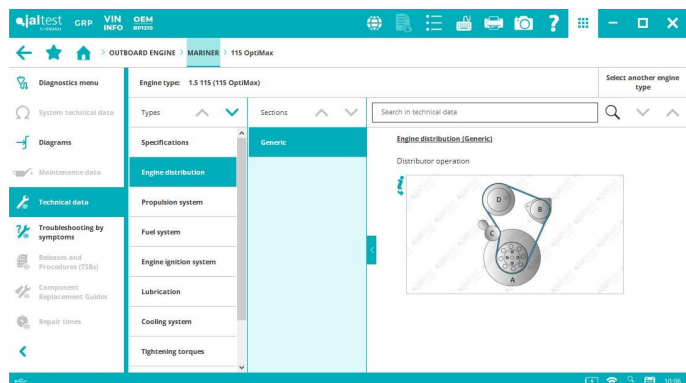
## OUTBOARD

### MARINER

New system that includes the possibility to perform diagnosis in the **ECM** and **PCM** systems through the G3 technology. Depending on the ECU version, the system has the following functionalities: diagnosis, measurements, activations, cylinder cut-out, maintenance reset, trim calibration, engine location. It applies to models from the following families: **OptiMax** and **Verado**.

Wiring diagram configurations in the following models: **200 Verado, 225 Verado, 250 Verado, 275 Verado, 300 Verado, 350 Verado** and **400R Verado**.

Creation of vessel technical data, as well as maintenance services.



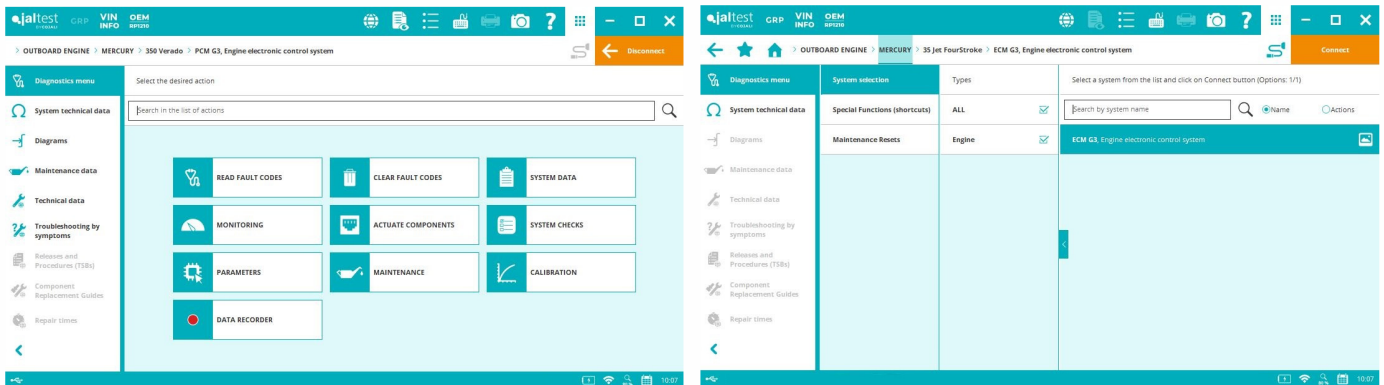
## MERCURY

New system that includes the possibility to perform diagnosis in the **ECM** and **PCM** systems through the G3 technology. Depending on the ECU version, the system has the following functionalities: diagnosis, measurements, activations, cylinder cut-out,



maintenance reset, trim calibration, engine location. It applies to models from the following families: **OptiMax, OptiMax Pro XS, Verado and Verado Pro.**

Software variants of the **ECM G3** system in models until 2020. This innovation will be available in models from the following families: **FourStroke, Jet FourStroke and SeaPro.**



Wiring diagram configurations in the following models: **200 Verado, 225 Verado, 250 Verado, 275 Verado, 300 Verado, 350 Verado and 400R Verado.**

Creation of the **35 Jet FourStroke** model with **ECM G3** system.

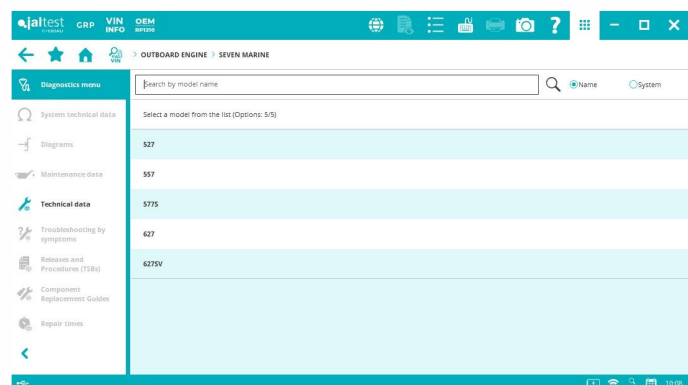
Creation of technical data, as well as maintenance services in the **OptiMax 1.5** engine type.

## SEVEN MARINE

New Seven Marine brand from the Volvo Penta group. Models currently available are: **527, 557, 577S, 627 and 627SV.**

These models are equipped with the **MEFI** engine control system and have the functionalities of diagnosis, operating data, proprietary measurements, activations and reset of learned values.

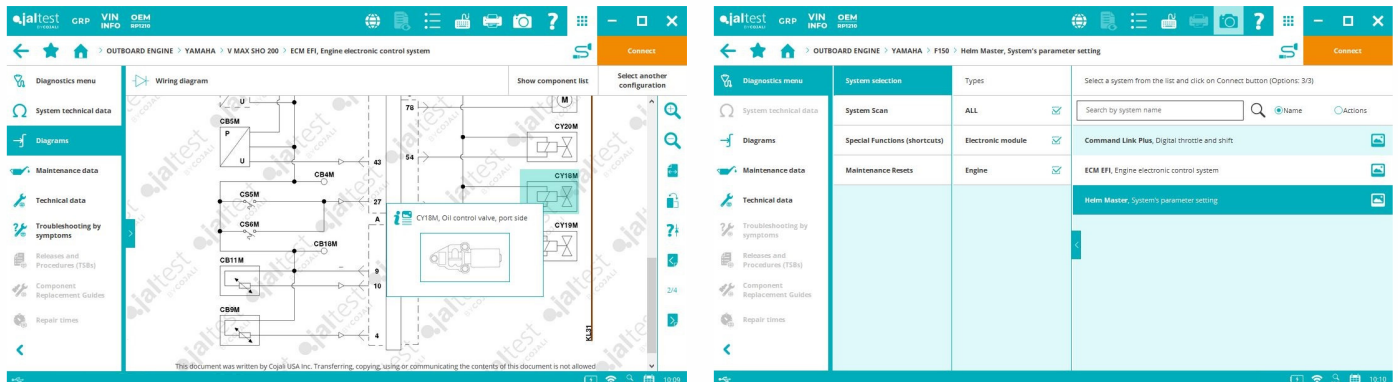
In addition, vessel technical data and maintenance service data have been included.



## YAMAHA

Creation of the **V MAX SHO** model family.

**Helm Master** system with the functionality of vessel control Joystick calibration in docking maneuvers. The new system is in the following models: **F150, F175, F200, F225, F250, F300, F350, FL150, FL200, FL225, FL250, FL300, FL350, LF150, LF200, LF225, LF250, LF300, LF350.**



## STATIONARY ENGINE

### CUMMINS

**QSF 3.8 CM2350** engine control system, activations, checks, parameter modification and maintenances such as the SCR catalytic converter regeneration or particulate filter replacement among others.

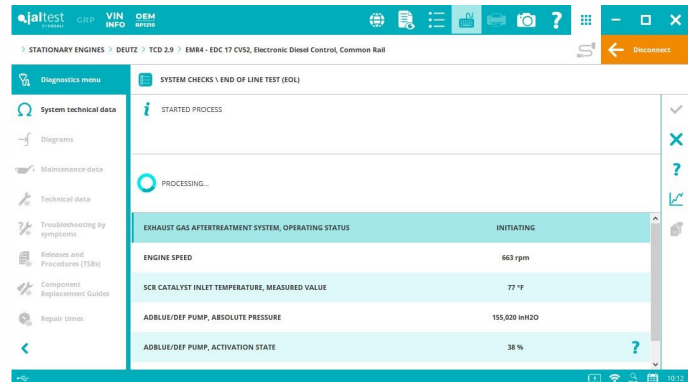
**QSB 4.5/6.7 CM2350** engine control system, accelerator lock configuration, SCR system operating test, etc.

In addition, other systems such as the **QSG 12 CM2350** engine control system or the **QSX15 CM2350** engine control system also extend their coverage in this version with advanced functions such as the removal of the SCR system inducement mode and other parameter settings.

## DEUTZ

**EMR4 - EDC 17 CV52** engine control system, AdBlue/DEF fluid quality test and End-Of-Line test, maintenances such as the injector ZFL correction values reset and thermal conditioning/desulfurization procedure.

**EMR5 - EDC MD1** engine control system, PRV pressure relief valve reset.



## IVECO-FPT

**EDC MD1** engine control system, SCR catalytic converter regeneration and checks such as the AdBlue/DEF fluid quality test. In addition, this system has new System Display for the fuel system and the exhaust gas aftertreatment system.

## JCB

**ECM 430 DieselMax** engine control system with advanced functions such as the injector test, cylinder cut-out and maintenances.

**E-CDIS** engine control system, Pressure Relieve Valve reset.

## KUBOTA

New **V1505**, **V1803** and **V2403** 3-cylinder engines with an engine control system developed with advanced functions such as the throttle and EGR valve activations, cylinder cut-out, injector coding, etc.

## PERKINS

**404D/404E** engine control system, EGR system reset.

**1204E/1206E** and **1204F/1206F** engine control system, EGR valve activation, inlet and outlet valve check, etc.

## SISU

**EEM4S5-MD1** engine control system, system data, activations, checks and injector coding.

# YANMAR

**EDC Bosch** engine control system for Yanmar engines, operating data such as the engine load profile, activations, checks and parameters.

