



INNOVATIONS 21.2











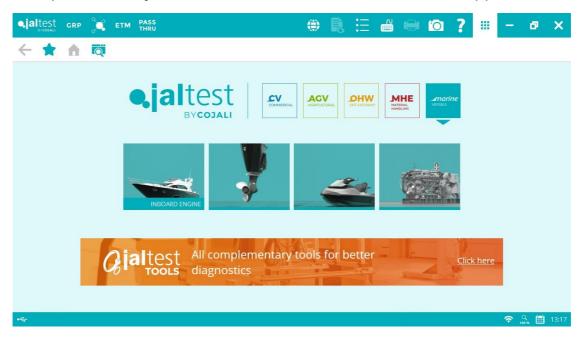


SOFTWARE INNOVATIONS

The new software version **Jaltest 21.2** once again offers more improvements and innovations that consolidate this tool as a benchmark in **multibrand diagnosis** for commercial, agricultural and OHW (Off-Highway) vehicles, and vessels.

In this version, Jaltest changes its start window display by adding accesses to licence modules independently. Vehicles types from different groups cannot be mixed in the main window. Moreover, Jaltest includes a new module called **MHE** with coverage in material handling equipment: forklifts, boom lifts, scissor lifts, telescopic handlers, etc. and it can be purchased independently or as complement to **AGV** and/or **OHW**.

Jaltest keeps in memory the access of the last session for the next application restart.



Jaltest ADS advertising with available banners:

- Jaltest Tools with access to the catalogue of COJALI website.
- Jaltest University with access to this section of Jaltest website.
- **Jaltest Telematics** with access to the promotional video of predictive maintenance.

Banners change automatically and appear in any selected group CV, AGV, OHW, MHE or MARINE.









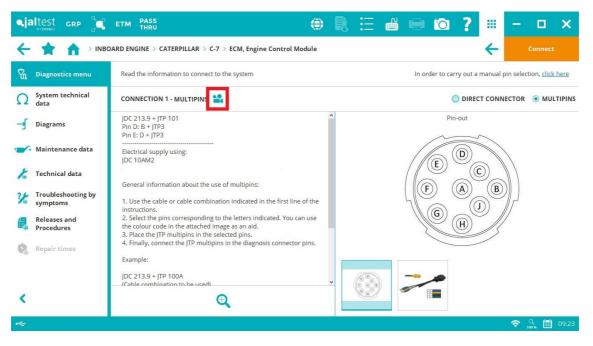




Jaltest videos

Updated Jaltest video menu with videos organised by categories. In addition, some of them have been related as procedure in the corresponding paths and models.

They can also be related to software functionalities, for example, in this version there is a video showing the use of multipins in all connections.



Moving image, connection instructions

Moving images have been included for complex Jaltest Link V9 connections in which the JDC 100 cable and external power supply must be used. Moving images for all connections of Jaltest coverage will be included the next version.



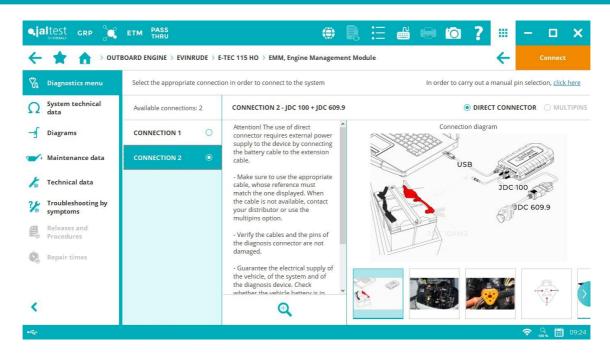












Other innovations

- Text search in troubleshooting guides and procedures.
- Full-screen display of troubleshooting guides and procedures.

GRP

GRP Enterprise management from Jaltest

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All devices registered in the same Jaltest user can create and manage GRP Enterprise directly from Jaltest.

Available for Administrator users only.













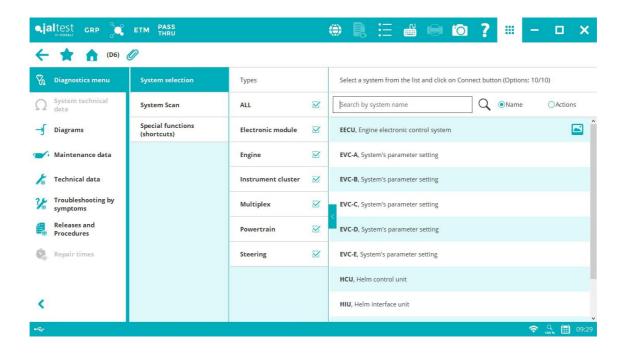
Other innovations

- Files in maintenance reports can be attached (All GRP levels).
- Multiple clients and vehicles can be selected for the next functions:

Deletion Export

Also, the forms have more columns and new filters.

- The GRP form printing is improved.
- The vehicle documentation is available from the diagnosis menu.















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 ENGINE

In this version the following new brands have been included: **KODIAK MARINE**, **PANTHER AIRBOATS** and **ROTAX**.

CATERPILLAR

ECM engine control system for Caterpillar C-30 model.

CUMMINS

New functionalities have been included in the following engine control systems: **QSB 6.7**, **QSL 9 CM850** and **QSL 9 CM2250** reset of the engine operation data and the engine abuse data.

Diagnostics menu	e operat	ION DATA \ ENGINE (DPERATION DATA \ DATA	REGISTRATION		s <			
Diagnostics menu System technical data	SHORT-TERM	MAP 1							
Diagrams		0 - 800	800 - 1200	1200 - 1600	1600 - 2000	2000 - 2400	2		
🔨 Maintenance data		rpm	rpm	rpm	rpm	rpm			
Maintenance data	0 - 10 %	4,42 %	2,25 %	4,31 %	2,91 %	0,98 %			
Technical data	10- 30 %	8,74 %	8,93 %	8,31 %	7,72 %	5,76 %			
Troubleshooting by symptoms	30 - 50 %	0,41 %	2,24 %	7,76 %	7,81 %	4,1 %			
symptoms	50 - 70 %	7,92 %	3,44 %	7 %	0,75 %	1,49 %			
 Releases and Procedures 	70 - 90 %	6,58 %	2,18 %	2,48 %	3,58 %	6,88 %			
Repair times	90 - 100 %	2,33 %	1,46 %	8,96 %	6,27 %	7,87 %	~		
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INDMAR

5.0 L model with MEFI 5-6 and Econtrols engine control systems.













JOHN DEERE

Maintenance data for all John Deere models.

Valve adjustment procedure for 8.1 L, 9.0 L and 12.5 L engines.

System Display available in the ECU Level 15 system that applies to 6135AFM75, 6135AFM85, 6135SFM75 and 6135SFM85 models.

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← ★ ▲ → INB	OARD ENGINE $>$ JOHN DEERE $>$ 60685FM50 $>$ ECU VP44 (Level 4), Radial piston diesel injection pump	Connect	> INBOARD ENGINE > JOHN DEERE > 6135AFM75 > ECU EUI (Level 15) - SYSTEM DISPLAY									
Signostics menu	Valves adjustment	<	Diagnostics menu SYSTEM DISPLAY \ Fuel system									
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- Diagrams	Collapse all the steps		- Diagrams	Nectron stratr, Poznon								
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MERCURY/MERCRUISER

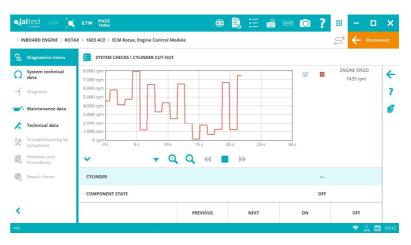
New ECM DFI engine control systems have been included in the Jet Drive 200 OptiMax and Jet Drive 250 OptiMax models.

Information to CAN bus errors of Smart Craft modules: SIM, CCM and TVM.

ROTAX

Engines that can be found in vessels such as Williams, Pirelli, etc.

The following models have been included: 900 HO ACE, 1503 NA, 1603 ACE, 1503, 1503 NA ACE and 900 ACE. All of them have ECM engine control systems and INS instrument cluster.



SCANIA

⊕ DI16-52-M and DI16-55-M models with PDE engine control systems.













VOLVO PENTA

EVC-C systems, Joystick calibration.

D4 and D6 engine models, compression test and acceleration test.

OUTBOARD ENGINE

MERCURY

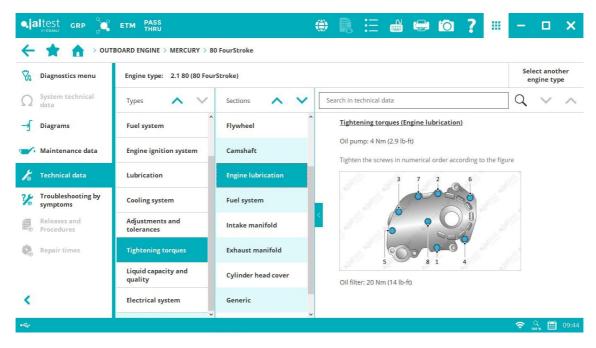
New functionalities in models with PCM-112 engine control system that apply to V6 and V8 engines.

Troubleshooting by symptom specific for models from **OptiMax** family.

Wiring diagrams of the ECM-70 G3 engine control

system in numerous models such as **75 FourStroke** and **150 Pro XS** and in V6 and V8 engines for models with and without DTS.

Moreover, vessel technical data and maintenance services have been included, for example, in **90 FourStroke** and **75 SeaPro** models.



MERCURY RACING

400 Verado, 400R Verado and **450R Verado V8** models.

Wiring diagrams of **Optimax** models.







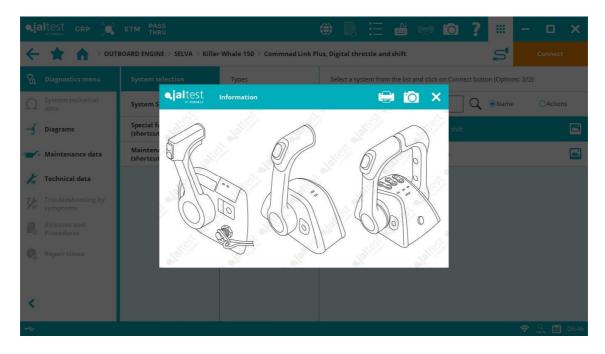






SELVA

Command Link Plus lever control system for Fin Whale 225, Killer Whale 150XSR, Grey Whale 200 models, etc.



SUZUKI

DF325 model with advanced diagnostic functionalities, troubleshooting guides and fuse and relay box diagram.

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STATIONARY ENGINE

CUMMINS

QSL9 CM2250 engine control system, regeneration and reset of the Diesel Particulate Filter.

QSX 11.9/15 CM2250 engine control system, operation data, activations, checks, parameter modification and maintenance such as DOC catalytic converter maintenance or particulate filter replacement among others...

ISUZU

4LE2 on CAN engine control system, new system functionalities, activations of the injectors, the EGR valve, the throttle actuator in the intake manifold, as well as cylinder cut-out, injector coding, Diesel Particulate Filter regeneration, etc.

PERKINS

1204E/1206E and **1204F/1206F** engine control system that communicates through SAE J1939 protocol, Diesel Particulate Filter regeneration operation test, injection rail pressure test, cooling system check, etc.

Moreover, there are new wiring diagrams available in 1103C and 1104C Tier 2 engines, as well as in 403F and 404F Tier 4 engines.

VOLVO PENTA

EMS V3 system, modification of the injection correction factor.

Moreover, there are new wiring diagrams in TTAD1640-42GE and TAD1641-43VE models.

YANMAR

Wiring diagrams in the **3TN88F** model.













JET SKI

SEA-DOO (BRP)

ECM engine control system, enable/disable the iBR system for Jet Ski with electronic braking control.

iBR brake control system, activation and deactivation of the iBR gate.

Key writing in **Spark** models for Jet Ski compatible with this functionality.

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