



INNOVATIONS 23.1













SOFTWARE INNOVATIONS

The new software version Jaltest 23.1 once again offers more improvements and innovations that consolidate this tool as a benchmark in multi-brand diagnostics for commercial vehicles, agricultural equipment, OHW equipment, material handling equipment and vessels.

Overall, there are new improvements in the software usage, including:

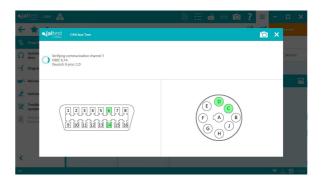
- Ordering the measurement display by the user.
- Displaying the support information of a System Display in an action.
- Improved parameter confirmation with more limits, conditions and exceptions.

This version also enables the download of the **Jaltest University** training program from additional modules.

Connection test and communication bus test

Shortcut to the connection test and the communication bus test of the vessel, allowing to verify the power supply, as well as the connection and communication errors in the diagnostics connector of the vessel. In addition, enhanced display of the communication bus test by indicating the pins of the OBD and 9-pin Deutsch connectors that are checked.

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		Types		Select a system from the list and click on Connect button (Options: 2/2)
System technical data	System Scan	ALL	×	Search by system name Q Name OActions
-J Diagrams	Special functions (shortcuts)	Electronic module	8	DTS G3, Digital throttle and shift
Maintenance data	Maintenance reset (shortcuts)	Engine	×	PCM-112 G3, Engine electronic control system
🄏 Vehicle/vessel data	Manual diagnosis			
Yroubleshooting by symptoms				
Releases and Procedures				
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The supply voltage of the system is also displayed throughout the diagnostics session.

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> INBOARD ENGINE > VOLV	O PENTA Gasoline > V6-240 > ECM EGC, Engine Contro	ol Module		← Disconnect
🖏 Diagnostics menu	Select the desired action			Voltage: 12.6 V
Ω System technical data	Search in the list of actions			Q
) Diagrams				
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GRP

Improved user experience in GRP thanks to the following innovations:

- Saving audios assigned to a report.
- Creating alarms from client lists, vessels or reports.
- Improved management of report e-mail sending.
- GRP Analytics information by device in GRP Enterprise.

In addition, shortcuts to GRP vessels can be created as favourites in brand forms. The management is performed from the vessel list. This allows the user to create shortcuts to client fleets, vessels, etc.

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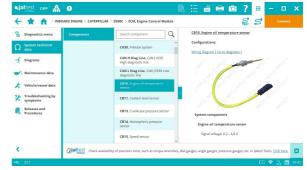


DIAGNOSTICS AND SYSTEMS

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.

INBOARD CATERPILLAR

Wiring diagrams and technical data for **3508C** and **3512C** models.



CRUSADER

ECM GCP engine control system, oxygen probe test of engines with catalytic converter. It allows the verification of the status of the engine aftertreatment system.

CUMMINS

Wiring diagrams and technical data of component for **ECM Port/Starboard** engine control systems of the **QSB 4.5** model.



ILMOR

Distribution control system of the engine and command post power: ePDM.

INBOARD ENGINE	> ILMOR > 5.3 L MV8 > ePDM, Ele	ctronic Module			S. S	← Disconnec
		MEASUREMENT SELEC	TION			
3 System technic data	al i Information subject	t to the "Licence Agreen	nent".			
∮ Diagrams	CONTROL CIRCUIT RE	LAY, CONTROLLER 1	CONTROL CIRCUIT RELAY, CO STATE	NTROLLER 1.	CONTROL CIRCUIT RELAY, CONT ELECTRICAL CURRENT	
🔨 Maintenance d	sta OFF	•	CIRCUIT BREAKER TRIPPED			
	ON		HIGH VALUE			
Vehicle/vessel	lata -		LOW VALUE		7 A	
Troubleshootin symptoms	g by		DISABLED			
Releases and Procedures	CONTROLLER	R 1, SOURCE	CONTROL CIRCUIT RELAY, CO	NTROLLER 2	CONTROL CIRCUIT RELAY, CONT STATE	ROLLER 2.
	CONTROL CAN J1939	•	OFF		TRANSITORY, DELAYED	
	CONTROL SWITCH, II	NPUT 1	ON		TRANSITORY, CIRCUIT BREAKE	
	CONTROL SWITCH, II	NPUT 2			CIRCUIT BREAKER TRIPPED	
	CONTROL SWITCH. II	NPUT 3 0			HIGH VALUE	

Available for: **5.3 L GDI, 5.3 L GDI-S, 5.3 L MV8, 5.7 L MV8, 6.0 L MPI, 6.0 L MPI-S, 6.0 L MV8, 6.2 L GDI, 6.2 L GDI-S** and **6.2 L MV8**.

New models: **5.3 L MV8** and **7.4 L MV8** with **ECM MV8** and **ePDM** systems.













ECM EControls engine control system, oxygen probe test of engines with catalytic converter. It allows the verification of the status of the engine aftertreatment system.

Vessel technical data and maintenance data for the following models: **5.3 L GDI, 5.3 L GDI, 5.3 L GDI-S, 5.3 L MV8, 5.7 L MV8, 6.0 L MPI, 6.0 L MPI-S, 6.0 L MV8, 6.2 L GDI, 6.2 L GDI-S, 6.2 L MV8, 7.4 L MPI, 7.4 L MPI-S, 7.4 L MPI-S, 7.4 L MV8** and **MV8 570**.

Wiring diagrams, component technical data, engine types and maintenance services for the **MV10** model.

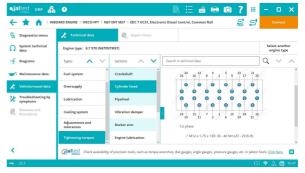
INDMAR

ECM 4G and **ECM MV8** engine control systems, oxygen probe test of engines with catalytic converter. It allows the verification of the status of the engine aftertreatment system.

Vessel technical data and maintenance data for 5.7 L, 5.7 L HO, 60, 6.2 and 8.1 models.

IVECO-FPT

Advanced technical data of vessel and maintenance service for **N60 ENT M37**, **N60 ENT M40, N67 ENT M45** and **N67 ENT M57** models.



MALIBU

ECM 4G engine control system, oxygen probe test of engines with catalytic converter. It allows the verification of the status of the engine aftertreatment system.

Vessel technical data and maintenance data for M5Di and M6Di models.

MERCURY

New software references for **PCM-112 G3** and **ECM/PCM G3** engine control units that apply to different years.

MTU

New engine models with **ADEC ECU-7**control unit: **10V 2000 M72, 10V 2000 M92, 12V 2000 M94** and **20V 4000 M93**, among others.

Vessel technical data for models with **ADEC ECU-7** control unit.

Maintenance data for most models with ADEC ECU-7 engine system.

Smart troubleshooting guides by symptoms.















PCM

ECM GCP engine control system, oxygen probe test of engines with catalytic converter. It allows the verification of the status of the engine aftertreatment system.

SCANIA

Vessel technical data and maintenance data for the following models: **DI13 076M, DI13 087M, DI13 088M** and **DI16 076M** with the **EMS XPI** engine control system.

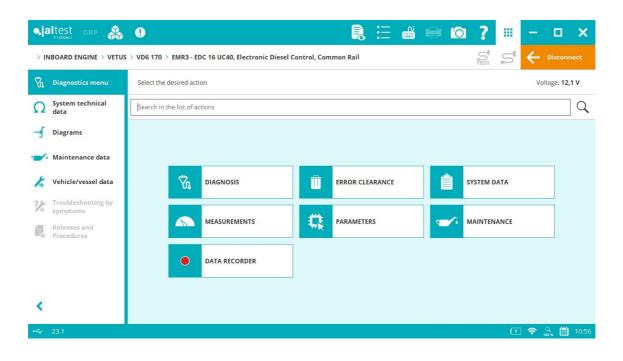
Smart troubleshooting guides by symptoms of **DI13 076M, DI13 087M, DI13 088M** and **DI16 076M** models.

VETUS New brand

• EMR3-EDC 16 UC40 and EDC CMD systems that apply to D-Line and F-Line series respectively, of the Dutch brand that adapts engines for Marine application.

Models: VF4 140, VF4 145, VF4 170, VF4 180, VF4 190, VF4 200, VF5 220, VF5 250, VD4 120, VD4 140, VD4 170 and VD4 210.

Both series offer complete diagnostics functionalities: fault code reading, ECU data, measurements, actuations and checks. Technical information: diagrams, component technical data, vessel technical data and maintenance data.















VOLVO PENTA GASOLINE

Advanced actions of the **EGC** engine control system: acceleration sensor check, oxygen probe check, adaptation value reset, misfire counter reset and fuel adaptation value reset.

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> 10	NBOARD ENGINE > VOLV	D PENTA Gasoline > V6-200 > ECM EGC, Engine Control Module						S	s	÷		
8		SYSTEM CHECKS \ OXYGEN PROBE										
Ω	System technical data	PROCESSING										\checkmark
-f	Diagrams	MOLESSING										×
-	Maintenance data	TEST, ELAPSED TIME					01	1:00 mm	:55			?
1.	Vehicle/vessel data	TEST				POWER,	AFTER TH	HE CATA	LYTIC CO	ONVERT	ER	லி
36	Troubleshooting by symptoms											
e,	Releases and Procedures											
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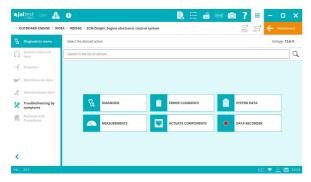
YAMAHA

New models: **998cc** and **1052cc HO**, both with the **ECM EFI** system with all the diagnostics functionalities and technical information: diagrams, component technical data, vessel technical data and maintenance data.

New Smart troubleshooting guides by symptoms for all inboard models.

OUTBOARD HIDEA New brand

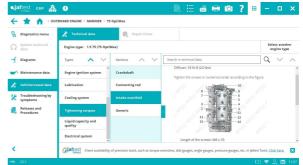
⊕ **ECM Delphi** engine control system that applies to the Chinese brand of outboard engines. The system has fault code reading, ECU data, measurements and IAC and injector actuations.



Available for HDEF40, HDEF40 SK, HDEF50, HDEF60, HDEF115 and HDEF130 models.

MARINER

Vessel technical data and maintenance data for the following models: **75, 90, 115, 125, 135, 150, 175, 200** and **225 Optimax**.



MERCURY RACING

New software references for the **PCM-112 G3** engine control unit of the **Verado 450R V8** model.













YAMAHA

 ● Yamaha systems: Helm Master HCU, Helm

 Master PCU and Helm Marter SCU that apply

 to the following models: 150, 175, 200, 225, 250,

 300, 350, 375 XTO and 425 XTO of F, FL and LF

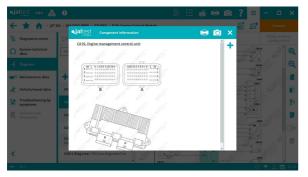
 families.

Fuse and relay diagrams that apply to **F375 XTO, FL375 XTO, F425 XTO** and **FL425 XTO** models.

		Types		Select a system from the list and click on Connect button (Options: 6/6)
System technical data	Special functions (shortcuts)	ALL	×	Search by system name OActions
J Diagrams	Manual diagnosis	Electronic module	×	Command Link Plus, Digital throttle and shift
🖍 Maintenance data		Engine	×	ECM, Engine electronic control system
Vehicle/vessel data		Multiplex	м	Helm Master HCU, Helm control unit
Troubleshooting by symptoms		Powertrain	×	Helm Master PCU, Common Powertrain Controller
Releases and Procedures		Steering	×	Helm Master SCU, Steering system control unit
				Helm Master, System's parameter setting

JET SKI SEA-DOO (BRP)

New **GTI PRO** model with **iBR, INS,** and **ECM** systems with wiring diagrams, component technical data, vessel technical data, maintenance data and troubleshooting guides by symptoms.



Wiring diagram configuration for the following models: GTI (4-TEC), GTI SE (4-TEC), GTX DI, GTX (4-TEC), GTX LIMITED (4-TEC), GTX LIMITED IS (4-TEC), GTX WAKE (4-TEC), GTX PRO, RXP (4-TEC), RXP-X (4-TEC), RXT (4-TEC), RXT-X (4-TEC), RXT IS (4-TEC), SPARK, SPARK TRIXX, WAKE and WAKE PRO.

Advanced technical data of vessel and maintenance service data for jet ski models from 2018 to 2022. This innovation applies to the following engine types: 0.9 60 (900 ACE), 0.9 90 (900 HO ACE), 1.5 130 (1503 4-TEC), 1.5 155 (1503 NA 4-TEC), 1.5 230 (1500 HO ACE), 1.6 130 (1630 ACE), 1.6 170 (1630 ACE), 1.6 230 (1630 ACE) and 1.6 300 (1630 ACE).

YAMAHA

New models: **FX 160** and **FX 160 Cruiser**, both with the **ECM EFI** system with all the diagnostics functionalities and technical information: diagrams, component technical data, engine type technical data and maintenance data.

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> JET SKI → YAMAHA → FX	60 > ECM EFI, Engine electronic control system	ទី ទី	÷	
	S DIAGNOSIS			
System technical data	ERROR(5) STORED IN MEMORY: 4			
J Diagrams	215 - Throttle valve position sensor. Signal value out of range.	i		×
Maintenance data	😵 24 - Camshaft position sensor. Irregular signal.	i	?	¥.
Vehicle/vessel data	8 47 - Sensors - Slope sensor. Irregular signal.	1	?	×
Troubleshooting by symptoms	8 242 - Injector Cylinder 2.	i	?	
Releases and Procedures				
¢	S PRESENT ERROR OTHER ERROR OTHER ERROR STATES			×













STATIONARY ENGINE CATERPILLAR

Caterpillar C-3.6 (on SAE J1939) engine control system, maintenance for the recovery process of the exhaust gas aftertreatment system.

Caterpillar C-4.4 and **C-6.6** (on SAE J1939) engine control systems, actuations of the exhaust gas pressure regulator and the fuel pump relay.

Caterpillar C-7.1 (on SAE J1939) engine control system, exhaust and intake system check, maintenance for the ash cleaning regeneration and high-pressure pump calibration of the fuel system.

CUMMINS

More than 500 references of **CUMMINS** systems have been included. In these systems, the display format of parameters has also been improved.

B4.5/6.7 CM2350, **QSB4.5/6.7 CM2350**, **QSF3.8 CM2350** and **L9 CM2350** engine control systems, among others. New advanced diagnostics functions such as the cylinder cut-out and the parameter configuration.

New equipment technical data, engine types, technical releases and procedures in **X15**, **X12**, **B4.5/6.7**, **L9** and **QSB6.7** engines, among others.

KOHLER

DCU exhaust gas aftertreatment system, actuation of the AdBlue/DEF system heating elements, return pump check, AdBlue/DEF injector check, AdBlue/DEF dosing check, AdBlue/DEF leakage control check, etc.

> 5	TATIONARY ENGINE > K	DHLER > KDI3404TCR + SCR > DCU Kohler, Exhaust gas treatment system	
%	Diagnostics menu	SYSTEM CHECKS \ SYSTEM DRAINAGE ADBLUE/DEF CIRCUIT	
Ω	System technical data	$m{i}$ AUTOMATIC ACTIVATION , THE PROCESS CAN BE CANCELLED AT ANY TIME IF SO DESIRED BY THE USER	
ł	Diagrams		2
-	Maintenance data	IN PROGRESS, PLEASE, WAIT	
2	Vehicle/vessel data	IN PROGRESS, PLEASE, WAIT	l
8	Troubleshooting by symptoms	TEMPERATURE SENSOR AT THE INPUT OF THE SCR CATALYST 49 °C	
	Releases and Procedures	BATTERY VOLTAGE 10 V	
		ADBLUE/DEF PRESSURE 92 bar	
		ADBLUE/DEF TEMPERATURE IN THE TANK 74 °C	
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VM MOTORI

Stage IV/Euro 6 EDC R754/R756 engine control system, actuations, histograms and operation data.









