

e altest commercial vehicles

INNOVATIONS 20.2











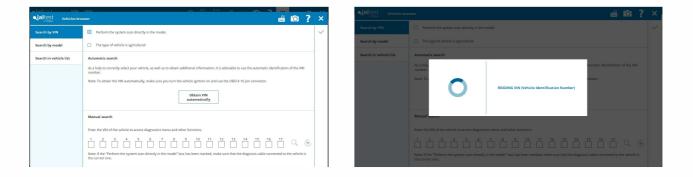
SOFTWARE INNOVATIONS

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 marked, which is valid for both searches.



Define triggers in measurements

In the measurement selection, triggers can be set. 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.

•jaltest GRP VIN	OEM RP1200	0 B 🗄 🗳 🕀	? 🗉 – 🗆 🗙	GRP VIN	OEM BIP1210	🔿 🛢 🗎 🖨 🖨 👩 ?	×
> 340/12/01516890-fr	> SA 1, Detroit Diesel, DDEC 16 D	DD13 MCM2.1, Electronic Diesel Control, Common Rail	S ← Disconnect	> 3AAUHTEVOLSLGRENN-Fr	> SA 1, Detroit Diesel, DDEC	16 DD13 MCM2.1, Electronic Diesel Control, Common Rail	
🖏 Diagnostics menu	MONITORING \ LIVE DAT	A SELECTION		🖓 Diagnostics menu		DATA SELECTION	
$\Omega_{data}^{System technical}$	Groups	Select the live data you want displayed	(Ω System technical data	Groups 🔨 🗸	Select the live data you want displayed	(Total: 257 / Selected: 3)
-J Diagrams	ALL	Do you want to set triggers in the measurements? The selected	t 🗰 🕂 New group 🕰	-J Diagrams	ALL	Search in the live data list Q Sort 2↓ Sort	🗈 🕂 New group
Yehicle service data	0	measurements will be paused once the defined value are reached.	<u>L</u>	Vehicle service data	Miscellaneous	SELECT ALL LIVE DATA	Ľ
Vehicle technical data	INFORMATION	 Do not show this message again. 	۲	Xehicle technical data	Flow volume	ST EGR (EXHAUST GAS RECIRCULATION) VALVE POSITION	Modify trigger
% Troubleshooting by symptoms	INFORMATION	ACCEPT CANCEL		Troubleshooting by symptoms	Voltage 🗹	BATTERY VOLTAGE	Add trigger
Releases and Procedures (TSBs)			?°	Releases and Procedures (TSBs)	Electric current	WATER DETECTION IN FUEL, SENSOR SIGNAL VOLTAGE	Add_trigger ?º
Component Replacement Guides				Component Replacement Guides	Torque 🗌		
Sepair times				🗞 Repair times	Angular aisplacement		
<				<	Mass Flow		











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

GRP VIN	OEM RP1210		🛞 見 🗄 🖷		io ? =		×	∙,ja	Itest GRP VIN	OEM (BP220)) 🗄 🖷	e 🖸	? =	: -		×
> SAKERTSVOLSLOEDE - Pr.,	> SA 1, Detroit	Diesel, DDEC 16 D	DD13 MCM2.1, Electronic Diesel Control, Common Rail				et	>	344(HT0/015) 68990 - Pr.,	> SA 1, Detroit Diesel, DDEC 16 DD13 MCM2.1, Electronic Diesel Control, C	ommon Rail		C	€ ←	Discon	nect
🖏 Diagnostics menu		ORING \ LIVE DAT	A SELECTION					8	Diagnostics menu	MONITORING \ LIVE DATA SELECTION						
Ω System technical data		~ ~					<	Ω	System technical data	EGR (EXHAUST GAS RECIRCULATION) VALVE POSITION		4 V		8	?	~
Diagrams	ALL	•jaltest	Set trigger 🔐 🙆	×	👃 Sort 🏢 🗤 🖣	+ New group	<u>a</u>	-1	Diagrams	BATTERY VOLTAGE		22 V				
Vehicle service data	Miscellaneo	If the set condit measurements	tion is fullfilled in the selected measurements, all the displayed will be paused.	~			L.	-	Vehicle service data	WATER DETECTION IN FUEL, SENSOR SIGNAL VOLTAGE		4 V			?	? °
Xehicle technical	Flow volum	Condition: More than	~			Add trigger	•	10	Vehicle technical data							В
% Troubleshooting by symptoms	Voltage	Value (V): 3,5				Add trigger		36	Troubleshooting by symptoms							6
Releases and Procedures (TSBs)	Electric cur	🗹 Save th	he measurements in the diagnositic report.				?°	8	Releases and Procedures (TSBs)							0 *
Component Replacement Guides	Torque							1%	Component Replacement Guides							
🚱 Repair times	Angular displaceme	nt 🗆						Q.	Repair times							
<	Mass Flow							<								

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-axle range can be set 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.

	0EM RP1270) 🕀 🗎 🗎	i 😑 🖸 ? 💷	- D	×	GRP VIN							?
> TRAILER > TRAILER USA > 1	Trailer > Bendix TABS-6 Advanced (CAI	i), Trailer brake control system	S	← Discon	nect	> TRAILER > TRAILER USA > 1	Trailer 🗧 Bendix T	ABS-6 Advanced	(CAN), Trailer brake control syste	m			
🖏 Diagnostics menu	DATA RECORDER		🖏 Diagnostics menu	DATA RECO	ORDER								
Ω System technical data	~				\checkmark	Ω System technical data		•.jaltest	Enter comment	ei 🗹	X		
-J Diagrams	RECORDING MEASUREMENTS AN	D DIAGNOSIS FAULTS. PRESS CANCEL TO FINISH THE REO	ORDING		×	Diagrams	O RECORDING		the comment that you want to save i	n the recording:	~		
Vehicle service data	🕅 READ FAULT CODES 🌘	SPEED SENSORS, WHEEL D SENSOR	10 mph		?	Vehicle service data	🐐 READ FAL	Example of c	omment during the recorder			0 mpl	h
Nehicle technical data	SYSTEM DATA	SPEED SENSORS, WHEEL E SENSOR	0 mph		0	K Vehicle technical data	SYSTEM C					0 mpl	h
% Troubleshooting by symptoms		SPEED SENSORS, WHEEL F SENSOR	10 mph		~	% Troubleshooting by symptoms						0 mpl	h
Releases and Procedures (TSBs)		SUPPLY PRESSURE (P1)	0 psi (lbf/in²)		6	Releases and Procedures (TSBs)						0 psi (lbf.	/in²)
Component Replacement Guides		PRESSURE ON BRAKE CONTROLLER (P4)	100 psi (lbf/in²)			Component Replacement Guides						0 psi (lbf.	/in²)
S Repair times		OUTPUT PRESSURE 21	0 psi (lbf/in²)			😋 Repair times			OUTPUT PRESSURE 21			0 psi (lbf.	/in²)
<		OUTPUT PRESSURE 22	0,1 psi (lbf/in²)			<			OUTPUT PRESSURE 22			0,1 psi (lb	e/in²)









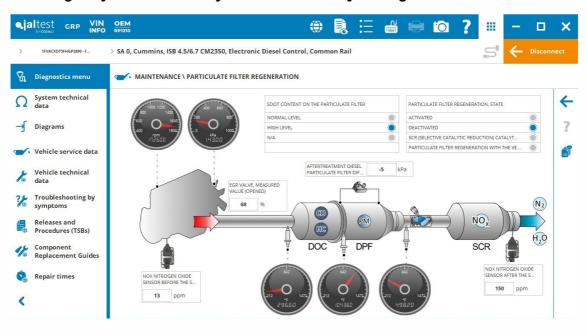


In the data playback, it is possible to navigate directly to the comments defined during the recording. The comment can be read in the information panel at the bottom.

€ ja	Itest GRP VIN	OEM RP1210	۲	₩ #		2?	=	-		×	
> T	RAILER > TRAILER USA >	Trailer > Bendix TABS-6 Advanced (CA	N), Trailer brake control system								
8	Diagnostics menu	00:00:02/00:05:36	NAME (SYSTEM)			TABS	TABS6 ADV MC				
Ω	System technical data	4° ≫ 0/2	PART NUMBER			K	28920			~	
-}	Diagrams	🖏 READ FAULT CODES 🌘	SERIAL NUMBER			2018	125018	B			
	Vehicle service data	SYSTEM DATA	SOFTWARE NUMBER			700.1	00.001.0	21			
) @	Vehicle technical data		ABS CONFIGURATION			4	IS/2M				
?∕₀	Troubleshooting by symptoms		ODOMETER				0 mi				
	Releases and Procedures (TSBs)		ELECTRONIC STABILITY PROGRAM, EN	ABLED			NO				
/	Component Replacement Guides										
Č.	Repair times										
<		Name: Bendix TABS-6 Advanced (CAN), Trailer brake control system_2804202016	3710.scfx Date	: 28/04/2020	16:37				×	

System Display in functions

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













Improvements in vehicle maintenance data

A search filter has been added in the display form of the vehicle maintenance data. Moreover, from now on, the customized maintenance sheets can be copied to other models synchronizing the information in the GRP Synchro and GRP Enterprise data bases.

GRP VIN	OEM BP1210		🖸 ? 💷	
🔶 ★ 🏠 эны	VY DUTY > VOLVO USA > VNL 300 [2013], engine: D	1, D13, D16		
🗞 Diagnostics menu	Engine type: Heavy Duty - Vehicle inspection repo	t	Select another engine type	Show technics release
Ω System technical data	+ Add customized sheet	Search in the service list		Q
- Diagrams	Maintenance Sheet Example 📄 🛒	Maintenance Sheet Example		۲
Vehicle service data	± Lubrication service	SELECT ALL SERVICES		
Xehicle technical data	Basic inspection	🗆 🗹 🗭 Example		
Yroubleshooting by symptoms	+ Main inspection	<		
Releases and Procedures (TSBs)				
Component Replacement Guides				
🎨 Repair times				
<		Click here to send the customized sheet throug	th Jaltest Feedback	×

	OEM RP1210	• altest Copy maintenance sheet		<u> </u>	≡ – ⊡ ×
← 🚖 🏠 → HEA		Copy maintenance sneet			
🐕 Diagnostics menu	Engine t	*Vehicle type *Brand HEAVY DUTY V VOLVO USA	~	elect another	Show technical release
	+ ~	*Model Engine type VNL 430 [2013], engine: D1 V	^		Q 0
-f Diagrams	Mainte	*Neme D11H, D13H, D16H US12 Maintenance Sheet Example			0
Vehicle service data	🖽 La	Maintenance Sheet Example *Services			8
K Vehicle technical data	E Ba	Name			
% Troubleshooting by symptoms	н м	Example O	Ø Ü		
Releases and Procedures (TSBs)					
Repair times		Add 1	new service		
<		*Mandatory field		st Reedback	
				V	

GRP Report sending to an email address

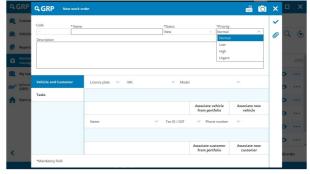
0,0	GRP) :E	<u> </u>			?		- 0	×
ů,	Customer list	Diagno	GRP	Report sending			i 10	×					
di,	Vehicle list	Search by no				-	,		h by cos		P		Č,
0		Search by or	*To: You could con	figure the mail directly fr	om these boxes								
		Name	CC: and send it t	o more mail addresses in	the CC field.				odel				
81		Freigh Mediu	Subject										
<u>*</u>		Freigh engine	Text								×	0	
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A	Start window	Intern engine									×	0	
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		Freigh engine	*Mandatory fi	eld							×	0	
<							iend repo	rts	ор	en report			

In the last version, the report sending to a customized email address in the configuration menu was presented and, in this version, this functionality is improved allowing the setting 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.













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.

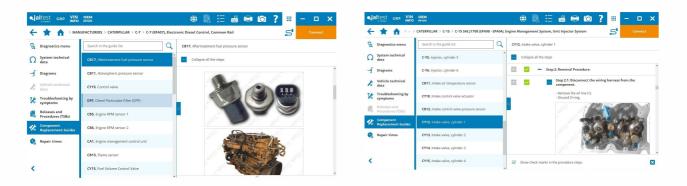
Heavy Duty Vehicles

BENDIX

ADAS Wingman, more than 150 new troubleshooting guides.

CATERPILLAR

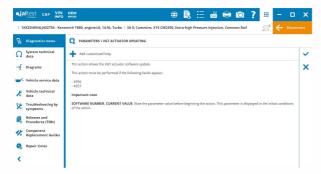
Replacement guides including specific images.



CUMMINS

Agility fuel delivery system CM1881B AFS101 installed in CM2350 CNG Near Zero engines.

① X12 CM2350 X119B, full coverage (parameters, maintenance, resets, etc.)



Variable geometry actuator software update for ISL9 CM2350 and X15 CM2350 engines.

SCR inducement parameter for QSB 4.5/6.7 CM2350.

New AdBlue/DEF diagrams (Denoxtronic 2.2) in more exhaust gas aftertreatment systems indicating the operating phases.

Procedures for checking the fuel flow of the high-pressure pump and the low-pressure fuel system in ISB 4.5/6.7 CM2350 and ISX 11.9/15 CM2350 engines.













GRP VIN	OEM B#1210	🌐 🗎 📇 🖶 🙆 ? 💷 – 🕫 ×
🔶 🚖 🏠 > MAR	IUFACTURERS > CUMMINS > ISB > ISB 4.5/6.7 CM2350,	Electronic Diesel Control, Common Rail
😪 Diagnostics menu	pump Q	Check the fuel flow of the high-pressure pump
Ω System technical data	Check the fuel flow of the high-pressure pump	Collapse all the steps
- Diagrams	Check the performance of the high-pressure pump	Step 2: Connect the adequate tools in the verification points.
Vehicle technical data		Connect an appropriate drain hose at the checking point without tightening the junction. Place the other end of the drain hose in a container
Troubleshooting by symptoms		- Checking point: Fuel output pipe. (High-pressure pump)
Releases and Procedures (TSBs)		
Component Replacement Guides		
🍖 Repair times		
<		Show check marks in the procedure steps.

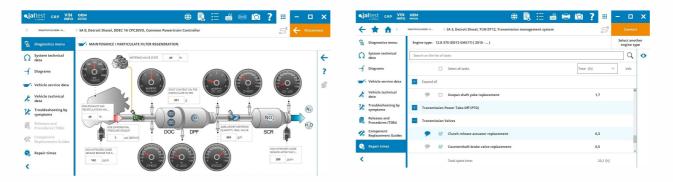
DETROIT DIESEL-MBE

EPA 07/EPA 10/GHG14/GHG17 vehicles:

- SCR Efficiency test for GHG14/GHG17 engines.
- System Display during the DPF regeneration and the DEF activations.

DT12 transmission, repair times for most common procedures.

New Cascadia modules, new variants and expanded coverage for 2019-2021 vehicles.

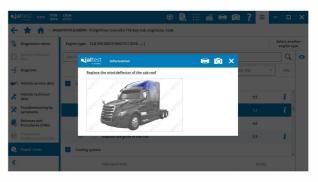


EATON

Procision, new variants have been included.

FREIGHTLINER

Repair times including specific images for the most common models: **Cascadia & New Cascadia, M2, MT45/55**, etc.













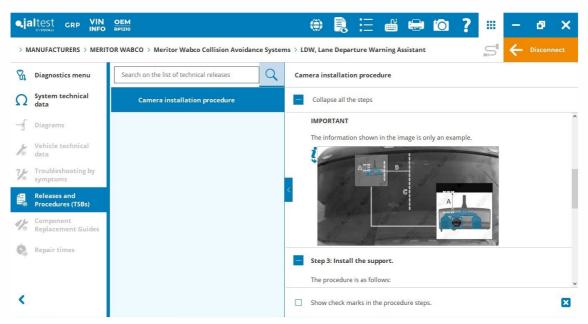
MACK

AdBlue ACM V3, new US19 wiring diagrams.

VECU Mack IV, new variants and new US19 wiring diagrams.

MERITOR WABCO

Onlane LDW lane departure warning system, new camera installation procedure.



NAVISTAR INTERNATIONAL

Repair times including specific images for the most common models: LT, ProStar, MV, TerraStar, etc.

MaxxForce, N-Series and A26 engines, System Display during the DPF regeneration.

MaxxForce 11/13 engines, expanded PTO and remote PTO parameters.

MaxxForce 5 (2007 - 2009) engines, new parameters as the maximum vehicle speed

or the Cruise Control speed.











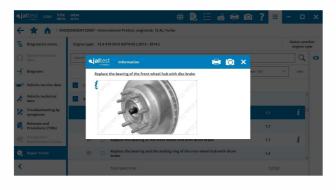
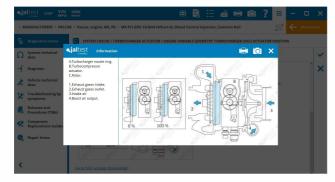


Image: construction Construction Construction Construction Construction Construction Image: construction Construction Construction

PACCAR



PCI KWP2000 engine system:

Turbocharger actuator position test including specific information.

PCI UDS engine system:

Troubleshooting guides by symptoms: engine power loss, irregular operation, quick soot load in the particulate filter or

black smoke through the exhaust pipe.

AdBlue/DEF EAS4 Ecofit UL2 exhaust gas aftertreatment system:

- Extended information for the fault codes which cause vehicle limitations such as the speed limitation, engine torque reduction, etc.
- Soot level reset.

÷	* 📤 >=>	PACCAR	> Pacca	r, engine:	MX, PR > MX PCI (GHG17/Euro 6) (2017 -), Diesel Control Injection, Common Rail Connect	
8	Diagnostics menu	Engin	ne power	loss, irreg	lar engine operation, quick soot load in the particulate filter or black smoke through the exhaust pipe	
Ω	System technical data	н	Collapse	all the step	5	
-1	Diagrams	×	~	+ Ge	neral information	î
	Vehicle technical data	×	~	- Ste	p 1: Check the related diagnostic faults.	
	Troubleshooting by symptoms	×	~	+	Step 1.1: DTC P0046: Engine Variable Geometry Turbocharger (VGT) Actuator Position. Internal fault.	
	Releases and Procedures (TSBs)	×	\checkmark	-	Step 1.2: DTC P0047: Engine Variable Geometry Turbocharger (VGT) Actuator Position. Difficulty in moving.	
	Component Replacement Guides				For further information, see the corresponding troubleshooting guide. Go to "Troubleshooting."	
Ø,	Repair times	×	\checkmark	Ŧ	Step 1.3: DTC P1400: EGR flow control system (Exhaust gases recirculation). Value too high.	
		×	\checkmark	H	Step 1.4: DTC P1711: NOx sensor before the SCR catalyst. Value valid, but above normal operation range.	
<		×	Show che	ck marks in	the procedure steps.	×

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> M	> MANUFACTURERS > PACCAR > Paccar, engine: MX, PR > EA5-4, Exhaust gas treatment system 🚽 🧲 Disconnect													
84	Diagnostics menu	The read fault codes												
Ω	System technical data	😵 P3912 x1 🛕 AdBlue/DEF (Diesel Exhaust Fluid) pump. Operation failure.												
-f	Diagrams	1 Freeze Frame Data ? Help and components of the fault 🎉 Fault Code Troubleshooting												
K	Vehicle technical data	lffect:												
38	Troubleshooting by symptoms	AdBlue/DEF injection. (Descrivated.) Engine torque reduction. (High severity level.)												
6	Releases and Procedures (TSBs)	- Vehicle speed (Maximum value: 5 mph (8 km/h))												
1%	Component Replacement Guides	COMPONENTS RELATED TO THE FAULT												
Ø,	Repair times	CL172, AdBlue/DEF pump module See information about the component												
<														











PSI

PSI 6.0 Gasoline

- PTO and Cruise Control parameter configuration.
- More than 25 new component replacement guides.
- More than 100 new troubleshooting guides.
- Repair times for the most common procedures.

VOLVO

New VNX Series models.

TRAILER

Bendix TABS6-ADV MC, bi-directional tests such as the modulator activations, the ABS warning lamp activation, etc.

LIGHT COMMERCIAL VEHICLES

FREIGHTLINER

① New Sprinter 2500/3500/4500 (engine OM642) [2019 - ...] models.

Wiring diagrams in the engine control system **CR61** for **WDB907** models.

GM

New path through MANUFACTURERS.

HINO

JO8E (K line) engine control system, PTO and particulate matter amount parameters.

INTERNATIONAL

New brand including the newest engine system Duramax L5D with basic diagnostic functions, bi-directional tests, etc. Wiring diagrams and technical data are also available.



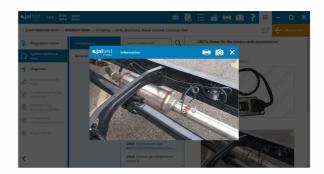








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> L	IGHT/MEDIUM DUTY > II	TERNATIONAL > CV Series > ECM, Electronic Diesel Control,	Common Rail			S			
8	Diagnostics menu	Select the desired action							
Ω	System technical data	Search in the list of actions							Q
-1	Diagrams								
K	Vehicle technical data								
36	Troubleshooting by symptoms	Read Fault Codes	CLEAR FAULT CO	DES	Ê	SYSTEM DATA			
8	Releases and Procedures (TSBs)							1	
4%	Component Replacement Guides		MONITORING			ACTUATE COMPO	NENTS		
Ø,	Repair times	SYSTEM CHECKS	PARAMETERS		•	DATA RECORDER			
<									



ISUZU

Extended coverage, N Series 2020 models.

MERCEDES-BENZ

① New Sprinter 2500/3500/4500 (engine OM642) [2019 - ...] models.

New fuel system schemes for the OM651 (... - 2018) and OM642 (... - 2018) engine types.

WORKHORSE

Wiring diagrams in several models.

