

INNOVATIONS 19.2



SOFTWARE INNOVATIONS

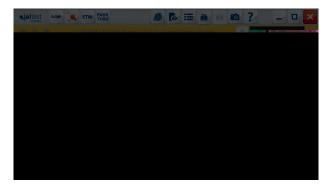
Update of the errors memorised during the System Scan process



Software improvement based on the update of the System Scan results. If the status of the error memory of a system changes after accessing and repeating the reading process or clearing the errors, the System Scan results are updated. This way, for example, the report can be repeated with a more precise information about the vehicle status.

Export of tables to Excel files

Export the data shown on table-type diagnosis action steps to Excel files (*xlsx).



A	в	С	D	E	F	G	н	1
H			STRUCTION EQUIPMENTI CAT		DL, Engine Control Module			
ŀ	SYSTEM DATA (HISTOGRA	AMS I TOTAL DATA I E	NGINE SPEED / LOAD FACTOR					
	ENGINE SPEED / ENGINE	LOND						
		RANGE (%)	ENGINE SPEED 1	ENGINE SPEED 2	ENGINE SPEED 3	ENGINE SPEED 4	ENGINE SPEED 5	ENGINE SPEED
	RANGE (rpm)		< 1100	1100 - 1300	1300 - 1500	1500 - 1700	1700 - 1900	1900 - 2100
	ENGINE LOAD 1	< 50	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00
	ENGINE LOAD 2	50 - 60	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00
	ENGINE LOAD 3	60 - 70	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00
	ENGINE LOAD 4	70 - 80	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00
	ENGINE LOAD 5	80 - 90	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00
	ENGINE LOAD 6	> 90	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00
ŀ								

New search filter for Freeze Frame Data (FFD)

		ch, Engine Control Mod	ule 🚴 Disconnect					
Diagnostics menu	READ FAULT CODES							
System technical	😮 1209.13 x1 Exhaust manifold. Exhaust ga	s pipe pressure sensor.	Calibration fault.					
data	? Help an fault	nd components of the	? 🄏 Fault Code Troubleshooting					
Diagrams	Search in the following list	٩.						
	ENGINE SPEED, REFERENCE VALUE	1200 rpm						
Trouble shooting	ENGINE RPM	1168 rpm						
eleases and	FUEL (DESIRED)	47 mg/st						
	COOLANT TEMPERATURE	19,4 °F						
	CARBON LEVEL IN THE DPF (DIFFERENTIAL PRESSURE)	0 g/L						
	EXHAUST GAS DIFFERENTIAL PRESSURE ON THE PARTICULATE FILTER	0 kPa						

Diagnostics menu	READ FAULT CODES							
Ω System technical data		haust gas pipe pressure sensor Help and components of the fault		fault. ault Code Troubleshooting				
Diagrams	temperature		Q					
Vehicle technical data	COOLANT TEMPERATURE	19,4 °F						
Troubleshooting	TEMPERATURE ON THE EXHAUST MA	NIFOLD 208,4 °F						
Releases and Procedures (TSBs)	INLET MANIFOLD TEMPERATURE	19,4 °F						
Component Replacement Guides								

NEW DIAGNOSIS AND SYSTEM FUNCTIONALITIES

Take into account that this document is only a summary of the most important information of this new version. For more information, please visit Jaltest Report.

OFF-HIGHWAY AND CONSTRUCTION EQUIPMENT

BOBCAT

• New systems: AUX auxiliary controller, LHP panel and SJC joystick controller among others. These systems include wiring diagram configurations.

Functionalities in the Gateway Controller system where the actuator calibration can be performed.

BOSCH-REXROTH



• New Bosch Rexroth BODAS RC Series system (protocolo RS232).

CATERPILLAR

	P CETM PASS	ø				a ?		×
***		eries \ MCM, Bod	y computer			2	Disconnect	•
Diagnostics menu	Search in the list of actions	R						
Ω System technical data	DIAGNOSIS							
	CLEAR ERRORS							
Diagrams	SYSTEM DATA	•						
Vehicle service data	MEASUREMENTS	•						
Vehicle technical	CALIBRATION	IMPLE	MENT CONTRO	L VALVES	►	RAISING V	LVE	
	DATA RECORDER	IMPLE	MENT CONTRO	LEVERS	•	LOWERING	VALVE	
Troubleshooting by symptoms						UNLOAD B	UCKET	
Releases and Procedures						LOAD BUC	КЕТ	
Repair times								

• New Caterpillar Machine Control Module [200 Series] system, which includes the calibration of the bucket and the control levers.

Powertrain Subgeneric (Track Type Tractor) Powertrain Controller, transmission calibration, calibration of the FNR gear shift lever sensor and calibration of the steering control joystick.

C-4.4 & C6.6 engine management systems, recovery process of the exhaust gas treatment system.

CNH (CASE CE & NEW HOLLAND)

***	Nuthan 1 200 Series, engine:	Int., 1UCM, Electronic Module	Disconnect 🤤
Diagnostics menu	Search in the list of actions	٩	
Ω System technica	SYSTEM DATA	•	
() system technica	MEASUREMENTS	•	
Diagrams	CALIBRATION	BUCKET VALVE	
Vehicle service data		CONTROL LEVERS	
Vehicle technical data			
Trouble shooting			
Releases and Procedures			
Repair times	1		

Calibration of the levers and the implement control valves in the UCM system.

• New systems: CU central unit and EHC hydraulic system.

• Wiring diagram configurations in systems such as EDC 17 C49 in FPT Tier 4 engines.

DOOSAN

	P ETM PASS		@? _ _ _ _
***)	6, CAN, Engine Control Module	Disconnect 🧔
Diagnostics menu	Search in the list of actions	SYSTEM IDENTIFICATION	
O System technical	DIAGNOSIS	HARDWARE NUMBER	DEMO_MODE
L2 data	CLEAR ERRORS	SOFTWARE VERSION	DEMO_MODE
Diagrams	SYSTEM DATA	ENGINE TYPE	DEMO_MODE
Vehicle service data	MEASUREMENTS	PROGRAMMING DATE	DEMO_MODE
Vehicle technical data	DATA RECORDER •	ENGINE CHARACTERISTIC MAP	DEMO_MODE
Troubleshooting by symptoms			
Releases and Procedures			
Repair times			

• New EDC DL06 (EDC 17 CV41) system.

HIDROMEK



HITACHI

• Wiring diagram configurations for Isuzu 4JJ1-TC, 4HK1-TC and 6UZ1-TC.6 engines.

JCB

• New systems: Powershift hydrostatic transmission and the HECU hydraulic system in which the overload limit can be calibrated.

JOHN DEERE CE

• New systems developed for backhoe loaders: TCU transmission, VCU vehicle control unit and the PDU main display.

LIEBHERR

• New ECU2-HD & UEC3 engine management systems (Universal Earthmoving Computer 3).

Gialtest CONNECTION 1 - J	DC 213M3 + JDC 542A	×		P CETM PASS		• ?
Caution! Using a direct connector requires the connector to receive			* * * *	C.A.A.A LIEBHERRAPR 746 (ECU2-HD)	Engine Control Module	Disconnect 🥥
external power supply from the lighter or the battery cable.			Diagnostics menu	Search in the list of actions	SYSTEM IDENTIFICATION	
- Make sure to use the appropriate		•	Ω System technical data	DIAGNOSIS	CONTROL UNIT SERIAL NUMBER	DEMO_MODE
cable, whose reference must match the one displayed. When				CLEAR ERRORS	ENGINE NUMBER	DEMO_MODE
the cable is not available, contact your distributor or use the			Diagrams	SYSTEM DATA	ENGINE TYPE	DEMO_MODE
multipins option.			Wehicle service data	MEASUREMENTS		
- Verify the cables and the pins of			Vehicle technical data	DATA RECORDER •		
the diagnosis connector are not damaged.			Troubleshooting			
- Guarantee the electrical supply of						
the vehicle, of the system and of the diagnosis device. Check	JDC 213M3 + JDC 542A		Releases and Procedures			
whether the vehicle battery is in perfect conditions.			Repair times			
- Avoid connecting the diagnosis device with a moving vehicle						

PERKINS

中大會			11204F, J1939, Engine Control Modul	• & -	Disconnect	
Diagnostics menu	Search in the list of actions	Q				
System technical	DIAGNOSIS					
2 data	CLEAR ERRORS					
Diagrams	SYSTEM DATA	•				
Vehicle service data	PARAMETERS	•				
	MEASUREMENTS	•				
	SYSTEM CHECKS	•				
by symptoms	MAINTENANCE	Þ	PARTICULATE FILTER REGENERATION			
Releases and Procedures	DATA RECORDER	•	RECOVERY PROCESS OF THE EXHAUST GAS AFTERTREATMENT SYSTEM			
Repair times						

VOLVO CE

***	() wolvo ce (L Series ()			Disconnect 🤇
Diagnostics menu	Search in the list of actions	Q	ABSOLUTE COUNTER OF FREEZING CYCLES	
System technical	DIAGNOSIS	_	SOOT CONTENT ON THE PARTICULATE FILTER	
-	CLEAR ERRORS		PARTICULATE FILTER ASH CONTENT	
Diagrams	SYSTEM DATA	•	REPLACEMENT OF THE DIESEL OXIDATION CATALYST (DOC)	
Vehicle service data	MEASUREMENTS	•	SCR (SELECTIVE CATALYTIC REDUCTION) REPLACEMENT	
Vehicle technical	SYSTEM CHECKS	•	SYSTEM COUNTERS RESET	
Troubleshooting	MAINTENANCE	Þ	RESET OF THE DIAGNOSIS ERRORS RELATED TO THE DURATION OF THE STATIONARY REGENERATION	
by symptoms	DATA RECORDER	•		
Releases and Procedures				
Repair times				

ACM exhaust gases treatment system in vehicles with engines of V3 technology, advanced functions such as the system counter reset or the catalytic converter replacement, among others.

Calibration of the boom position sensor in the GPMECU2 system.

STATIONARY ENGINES

CATERPILLAR

• New C-32 CDL engine management system.

C-3.3B & C-3.8 engine management systems, injector coding.

DEUTZ

EMR4, EDC 17 CV52, engine management system, checks relating to the AdBlue/ DEF exhaust gases treatment system.

SISU

中大合	Authorities) Sisu Engines (EEM4		17 CV54, Electronic Diesel Control, Co.	Disconnect	6
Diagnostics menu	Search in the list of actions	۵	COMPRESSION TEST		
System technical	DIAGNOSIS		CYLINDERS CUT-OUT		
data	CLEAR ERRORS		HIGH-PRESSURE FUEL INJECTION TEST		
Diagrams	SYSTEM DATA	•	HIGH-PRESSURE PUMP PERFORMANCE TEST		
Vehicle service data	PARAMETERS	•	HYSTERESIS TEST OF THE PRESSURE CONTROL VALVE		
	MEASUREMENTS	•	METERED QUANTITY MEASUREMENT, ADBLUE/DEF		
, Troubleshooting	ACTUATE COMPONENTS	•	ADBLUE/DEF PRESSURE TEST		
by symptoms	SYSTEM CHECKS	Þ	ADBLUE/DEF CIRCUIT SYSTEM BLEEDING		
Releases and Procedures	MAINTENANCE	•			
Repair times	DATA RECORDER				

EEM4 / EEM4F (EDC 17) engine management system, new activations, checks and injector coding for 6-cylinder blocks.

• New Perkins systems in SAE J1939 for 1204E, 1204F, 1206E y 1206F engines.

YANMAR

Cylinder cut-out and activations of the engine throttle valve and the EGR exhaust gas control valve in the Yanmar Denso engine management system.

• Wiring diagram configurations in Yanmar Bosch and Denso engine management systems.

VOLVO PENTA

EDC engine management system in vehicles with Volvo engines of V2 technology, soot content reset, EGR valve calibration, etc.

STREET SWEEPERS

New functionalities of the VM EDC R754/R756 system, among which the DPF diesel particulate filter regeneration and reset, components replacement functions such as the differential pressure sensor and the oil dilution reset, etc. can be highlighted.

This system is included in many models of street sweepers: Bucher CityCat 2020, Hako Citymaster 2200, Johnston C 200 or Mathieu-YNO Aquadyne Series.

