

# AGRICULTURAL 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 checked, which is valid for both searches.

•jaltest Vehicles brown	··· 🛍 🛍 ?	×	•jaltest Vehicles bro				
Search by VIN	Perform the system scan directly in the model.	$\checkmark$	Search by VIN	Perform the system scan directly in the mi	odel.		
Search by model	The type of vehicle is agricultural		Search by model	The type of vehicle is agricultural			
Search in vehicle list	Automatic search		Search in vehicle list	Automatic search			
	As a hights correctly select, you vehicle, as well as to obtain additional information, it is advisable to use the automatic identification of the VIN number. Note: To obtain the VIN automatically, make sure you sum the vehicle ginition on and use the OBC-818 pin connector. Obtain YIN automatically			As a tree toor: Tak	READING VIN (Vehicle Identification Number)	identification of the VIN number.	
	Manual search			Manual Burran	I		
	Enter the VIN of the vehicle to access diagnostics menu and other functions.			Enter the VIN of the vehicle to access diagnostic	s menu and other functions.		
	1       2       3       4       5       6       7       8       9       10       11       12       13       14       13       14       17       Q       ©         Note: If the Perform the system sam directly in the model' bes hat been cheaked, make suite that the diagnosis cable connected to the which is the caret direct one.				7         8         9         10         11         12         13         14         15           the model" box has been checked, make sure that the diagnosis cable colspan="3">colspan="3">colspan="3">colspan="3"		

#### **Define triggers in measurements**

In the measurement selection, triggers can be configured. 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 🔆	ETM PASS THRU	۵ 😑 🖴 🕲	1 <b>? Ⅲ</b> - □ ×	Sialtest GRP 🔪	ETM PASS THRU		👄 🛢 🗄 🖨 📾	? 🖩 – 🗆	×
> AGRICULTURAL VEHICLES > N	MASSEY FERGUSON > 5700 Dyna-4 (G	ilobal) > EEM4F - EDC 17 CV41, Electronic Diesel Control, Common Rail		> AGRICULTURAL VEHICLES > I	MASSEY FERGUSON > 57	00 Dyna-4 (i	Slobal) > EEM4F - EDC 17 CV41, Electronic Diesel Control, Common Rall	S 🗲 Disconr	hect
🖏 Diagnostics menu		EMENTS SELECTION		Diagnostics menu		'S \ MEASUR	EMENTS SELECTION		
		Select the measurements you want displayed	(Total: 58 / Selected: 0)		Groups	~	Select the measurements you want displayed	(Total: 58 / Selected: 4)	÷
	ALL	ſ	n 🖦 🕂 New 🕰	Diagrams	ALL	× ^	Search in the measurements list $Q \cong \downarrow$ Sort $2 \downarrow$ So	rt 🗓 🐝 🕂 New group	<u>a</u>
verice service data		Do you want to configure triggers in the measurements? The selected measurements will be paused once the defined value are reached.	<u></u>	Vehicle service data	Pressure	×	SELECT ALL MEASUREMENTS	^	Ľ
🔏 Vehicle technical data	0	<ul> <li>Do not show this message again.</li> </ul>	۲	Ho Vehicle technical data	Temperature	×	EXHAUST GAS AFTERTREATMENT SYSTEM, OPERATING MODE	Add trigger	0
% Troubleshooting by symptoms	INFORMATION		<b>7°</b>	Troubleshooting by symptoms	Volume	×		Modify trigger	<b>?</b> °
Releases and Procedures		ACCEPT CANCEL		Releases and Procedures	Angular velocity	×	NOMINAL PRESSURE ON INJECTION RAIL	Add trigger	
Repair Lines				Repair times	Flow volume	×	ENGINE PERCENT LOAD AT CURRENT SPEED. NOMINAL VALUE	Add trigger	
					Voltage	×	ENGINE PERCENT LOAD AT CURRENT SPEED. REAL VALUE	Add trigger	
<				<	Mass	×	PRESSURE FUEL FILTER	Add trigger	
S						•			4











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

ejaltest GRP 📜									<b>~</b> i	altest GRP 🔪	ETM PASS THRU	) 🔒 🗄	ŭ	🖨 🙆	? ==	-		×
> AGRICULTURAL VEHICLES > N	LASSEY FERGUSON	N 2 5700 Dyna-4 (0	Slobal) > EEM4F - EDC 17 CV41, Electronic Diesel Control, Common R	all					> ,	AGRICULTURAL VEHICLES >	MASSEY FERGUSON > 5700 Dyna-4 (Global) > EEM4F - EDC 17 CV41, Elec	ronic Diesel Control,	Common R	lic	s	÷	Disconne	ect
	MEASUR	IEMENTS \ MEASUR	EMENTS SELECTION						8		MEASUREMENTS \ MEASUREMENTS SELECTION							
Ω System technical data		~ ~	Select the measurements you want displayed				58 / Selected: 1)	-	Ω	System technical data	ENGINE SPEED			1443 rpm			?	~
J Diagrams	ALL	•jaltest	Configure trigger 👸 🙆	×	\downarrow Sort	<b>B</b> ss.	+ New group		-1	Diagrams	ACTUAL PRESSURE ON INJECTION RAIL			1750 bar		8	?	
	Pressure	If the configured displayed measu	d condition is fulfilled in the selected measurements, all the arements will be paused.	~						Vehicle service data	FUEL CONSUMPTION			46 L/h			?	?
	Temperature	Condition: More than	~					0	K	Vehicle technical data	INJECTED FUEL AMOUNT			9 mg/H			?	В
% Troubleshooting by symptoms	Volume	Value (bar): 1500					Add trigger	<b>?</b> °	2	Troubleshooting by symptoms								6
Releases and Procedures	Angular velo	🗹 Save th	ne measurements in the diagnosis report.				Add trigger		e,	Releases and Procedures								θ
	Flow volume		ENGINE OIL PRESSURE				Add trigger		Ø,	Repair times								
	Voltage		INTAKE MANIFOLD PRESSURE				Add trigger											
<	Mass		PRESSURE LIMITATION ON THE INJECTION RAIL DUE TO A	N EDC FA	ULURE		Add trigger		<									

#### 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 configured 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.

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AGRICULTURAL VEHICLES	KUBOTA > M7 Series > ACU, Exhaust gas	i treatment system	S	← Disconn	ect	> AGRICULTURAL VEHICLES > 1	(UBOTA > M7 Series	> ACU, Exhaust gas treatment system				
	DATA RECORDER					🖏 Diagnostics menu	DATA RECO	RDER				
Ω System technical data	0	ND DIAGNOSIS ERRORS. PRESS CANCEL TO FINISH THE RECORDING			$\sim$	Ω System technical data	~	ejaltest Enter comment	i 🖄	×		
) Diagrams	RECORDING MEASUREMENTS AN	ID DIAGNOSIS ENHORS. PRESS CANCEL TO HINISH THE RECORDING			×			Please, insert the comment that you want to save	n the recording:	~		
Vehicle service data	🗞 DIAGNOSIS 🌘	ADBLUE/DEF PRESSURE	12790 mbar		?	Vehicle service data		Example of comment during the recorder			24260 mbar	
Vehicle technical data	SYSTEM DATA	CONCENTRATION OF ADBLUE/DEF	31 %		0	🄏 Vehicle technical data	SYSTEM D				7%	
Troubleshooting by symptoms		ADBLUE/DEF TEMPERATURE	33 °C		Ľ	% Troubleshooting by symptoms					-33 °C	
Releases and Procedures		NITROGEN OXIDES (NOX) SENSOR, INPUT SIGNAL	773 ppm		6	Releases and Procedures					1176 ppm	
Repair times		NITROGEN OXIDES (NOX) SENSOR, OUTPUT SIGNAL	1969 ppm			C. Repair times					1150 ppm	
		NITROGEN OXIDES (NOX) SENSOR, BEFORE THE CATALYTIC CONVERTER	ERROR					NITROGEN OXIDES (NOX) CATALYTIC CONVERTER	ENSOR, BEFORE THE		WARM UP	
<		NITROGEN OXIDES (NOX) SENSOR, AFTER THE CATALYTIC CONVERTER	CORRECT VALUE			<		NITROGEN OXIDES (NOX)	ENSOR, AFTER THE		WARM UP	









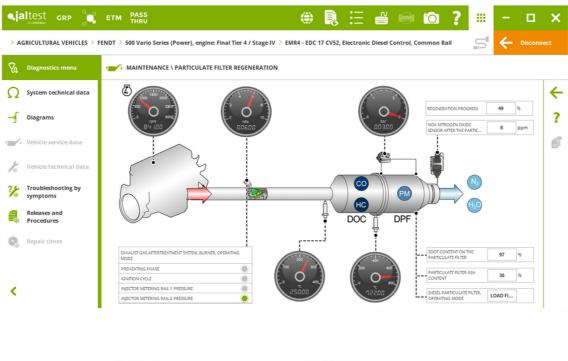


In the data playback, it is possible to navigate directly to the comments defined during the recording. The comment can be read in the information panel at the bottom.

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AGRI	CULTURAL VEHICLES $>$ K	KUBOTA 👌 M7 Serie	es 👌 ACU, Exhaust gas	treatment system						Finish	
Vi Di	agnostics menu		00:00:41/00:01:05	CONTROL UNIT SERIAL NUMB	R			DEN	IO_MODE		0
Ω sy	rstem technical data	«* <mark>»</mark> *	1/1					DEN	IO_MODE		~~
→ Di	agrams		osis 🌘	ECU HARDWARE NUMBER				DEN	IO_MODE		
Ve	chicle service data	SYSTEM	DATA	PART NUMBER, SOFTWARE REF	ERENCE			DEN	IO_MODE		
🄏 Ve	ehicle technical data	MEASUR	EMENTS								
	oubleshooting by mptoms										
	eleases and rocedures										
C Re	epair times										
<		Name: ACU, Ex	haust gas treatment sys	tem_15052020140927.scfx Date: 15/0	5/2020 14:	09					×

#### **System Display in functions**

The image shows the measurements represented in a System Display during the particulate filter regeneration in a Fendt 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 customised maintenance sheets can be copied to other models synchronising the information in the GRP Synchro and GRP Enterprise databases.

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← 🚖 🏫 > AGR0	CULTURAL VEHICLES > NEW HOLLAND > T9 Series, engine: Fin	al Tier 4 / Stage IV				~		ICULTURAL VI	eredited				
Diagnostics menu	Engine type: 12,9 (F3H FE613) - Final Tier 4		Select another engine type	Show technical	release	Sr.	Diagnostics menu	Engine ty	*Vehicle type AGRICULTURAL VEHICLES ~	*Brand NEW HOLLAND	- -		Show technical release
	+ Add customised sheet	Bearch in the service list		Q	0	Ω		+ **	*Model T9 Series, engine: Final Tier 4 / Stage IV 🛛 🗸	Engine type 12,9 (F3H FE613) - Final Tier 4 12,9 (F3D FE613) - Final Tier 4	<u> </u>		<u>्</u>
	Maintenance Sheet Example 📄 📝	Maintenance Sheet Example		۵	B	-5	Diagrams	Mainte	*Name Maintenance Sheet Example	12,9 (F3H F8613) - Final Tier 4 8,7 (F2C F8614) - Final Tier 4			Ø 🗄
🖅 Vehicle service data	🛨 General	SELECT ALL SERVICES						1 C	*Services	4.1.6.1.6.1			
🄏 Vehicle technical data	E Long interval	🗆 💆 🗭 Example					Vehicle technical data	E Lo	Name				
Troubleshooting by symptoms		<				10	Troubleshooting by symptoms		Example	• 🖉 🛙			
Releases and Procedures						-	Releases and Procedures						
Repair times						8							
										Add new service			
<		Click here to send the customised sheet through	laitest Feedback	8		<			*Compulsory field			Feedback	×

## GRP

#### Report sending to an email address



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

<b>♀</b> GRP	GRP New work of				<b>6</b>	0			
Client	Code						~	ry	
💼 Vehicle			*Status New	*Priority V Normal		^	Ø	Q	G
Report:	Description			Low					
Worksh manag				High Urgent				(	
🛐 My tasi								3	
& Recept	Vehicle and Client	Number plate VIN	<ul> <li>✓ Mode</li> </ul>		~			0	
🙀 Human	Tasks							3	
OF Jaltest				Associate vehicle from portfolio	Associate ne vehicle	w			
Start w		Name	VAT No.	<ul> <li>Phone number</li> </ul>	~			0	
<				Associate client from portfolio	Associate new o	lient		id orde	
	*Compulsory field							a orde	











## **BRANDS AND MODELS**

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

In this version the following new brands in agricultural vehicles have been included: **ARBOS, BCS, FERRARI, GOLDONI, PASQUALI** and **ROSTSELMASH**. New models in Jaltest are listed below.

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🗲 ★ 🏫 🎡	> AGRICULTURAL VEHICLES > A	RBOS	🗲 ★ 🏠 🎡	> AGRICULTURAL VEHICLES > L	ANDINI
🕅 Diagnostics menu	Families	Select a model from the list (Options: 13/13)	🖓 Diagnostics menu	Families	Fearch by model name OSystem Search by category ~
$\Omega$ System technical data	ALL	[Search by model name OSystem Search by category V	$\Omega$ System technical data	ALL	Select a model from the list (Options: 35/35)
—j Diagrams	4000 AF Series	4100 F, engine: Interim Tier 4 / Stage IIIB	J Diagrams	4 Series	7 Robo-six Series (145/165/175), engine: Tier 3 / Stage III - Interim Tier 4 / Stage IIIB
♥ Vehicle service data	4000 F Series	4100 Q, engine: Interim Tier 4 / Stage IIIB	Wehicle service data	5 Series	7 Robo-six Series (160/180/200/220/230), engine: Final Tier 4 / Stage IV
Ye Vehicle technical data	4000 Q Series	4110 AF, engine: Interim Tier 4 / Stage IIIB	Vehicle technical data	6 Series	7 Robo-six Series (Armrest) (145/165/175), engine: Tier 3 / Stage III - Interim Tier 4 / Stage IIIB
% Troubleshooting by symptoms	5000 Series	4110 F, engine: Interim Tier 4 / Stage IIIB	% Troubleshooting by symptoms	7 Series	7 Robo-six Series (Armrest) (160/180/200/220/230), engine: Final Tier 4 / Stage IV
Releases and Procedures		4110 Q, engine: Interim Tier 4 / Stage IIIB	Releases and Procedures	Legend Series	7 Series, engine: Interim Tier 4 / Stage IIIB
Repair times		5100, engine: Final Tier 4 / Stage IV	Repair times	Power Series	7 Series, engine: Tier 3 / Stage III
		5115, engine: Final Tier 4 / Stage IV		Rex Series	7 V-Shift Series, engine: Final Tier 4 / Stage IV
<		5130, engine: Final Tier 4 / Stage IV	<		Alpine Series, engine: Tier 2 / Stage II - Tier 3 / Stage III

#### **DEUTZ-FAHR**

#### **Agrovector Series**

#### FENDT

200 Vario Series, engine: Final Tier 4/ Stage IV 1000 Vario Series, engine: Final Tier 4/ Stage IV

#### LANDINI

4D Series Landforce Series Landpower Series, engine: Tier 2 / Stage II 7 V-Shift Series 7 Robo-six Series 7 Robo-shift Series 6C Series 5H Series (2017) Rex 4 Series (GE, GB)











#### **MASSEY FERGUSON**

5700 Dyna-4 (Global)

#### **McCORMICK**

X8.6 VT-Drive Series X7.4 VT-Drive X7.6 P6-Drive X7.4 P6-Drive X7.4-7.6 PS-Drive X5 Series (20/30/40/50) X4m Series (30/40/50) X4 Series (F, V, XL) X4 Series (GE, GB)

#### **NEW HOLLAND**

CX5000 Series, engine: Final Tier 4 / Stage IV CX6000 Series, engine: Final Tier 4 / Stage IV T7 Series - 18/19x6 Power Command (Armrest), engine: Tier 5 / Stage V CX Series, engine: Tier 5 / Stage V CX5000 Series, engine: Tier 5 / Stage V CX6000 Series, engine: Tier 5 / Stage V

#### VALTRA

More than 40 models in this brand have been included.

A 104 (AC71.5) N 174D (AC34.5) N 154EV (AC35.5) T 254H (AC36.51) And much more...











# **DIAGNOSIS AND SYSTEMS**

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#### CLAAS

**ECM Caterpillar C-9.3** and **C13** engine control system, reset of the DPF particulate filter ash content.

Itest GRP 🤶	etm Pass 🜐 🖶 🖶 🖴 🍽 ? 🏢 - 🗆	>
RICULTURAL VEHICLES	CLAAS > Lexion Series (C6x) > ECM Caterpillar C-9.3, Engine Control Module 🛛 💭 🧲 Disco	
	MAINTENANCE \ PARTICULATE FILTER ASH CONTENT	
System technical data	SELECT AN OPTION	
Diagrams	PARTICULATE FILTER NOT CONTAMINATED	~
Vehicle service data	DIESEL PARTICULATE FILTER: NEW	>
Vehicle technical data	DIESEL PARTICULATE FILTER: REMANUFACTURED	1
Troubleshooting by symptoms		
Releases and Procedures		
Repair times		
	Signetics menu Diagnostics menu System technical deta Diagnams Vehicle service data Vehicle schnical data Peaceasa and Procedures	ARROUTORAL VERICUES © CAASE & Lesions Series (Cisc) © CAA Case prilier C-33, Engine Control Module Congression more Congression more Congres

#### **DEUTZ-FAHR**

EMR4 - EDC 17 CV52 Deutz engine control system, injector coding.

**EMR 3** – **EDC 16 UC40 Deutz engine** control system, Pressure Relief Valve (PRV) reset, manual and automatic procedure.

#### FENDT

EMR 4 - EDC 17 CV56 Deutz engine control system, Pressure Relief Valve (PRV) reset.

#### **JOHN DEERE**

•ja	Iltest GRP 🔀	etm Prass 🕀 🕄 🗃 🖶 🖾 ? 🗰 - 🗆	
> AI	SRICULTURAL VEHICLES	JOHN DEERE > 6R Series > ECU HPCR (Level 34 - Final Tier 4 / Stage IV), Electronic Diesel Control, Common Rail 🦳 🧲 Disco	
		MAINTENANCE \ DIESEL PARTICULATE FILTER \ PARTICULATE FILTER ASH CONTENT	
Ω	System technical data	+ Add customised help	~
-f	Diagrams	This action must be performed after cleaning the diesel particulate filter manually to indicate to the control unit that the filter has been emptied of ash.	×
•	Vehicle service data	The ash are the residues that get trapped in the particulate filter. This type of particulates, which come mainly from oil and from the engine wear, cannot be burnt during the regeneration process.	
ĸ	Vehicle technical data	If only the ash but not the soot of the particulate filter has been cleaned, the regeneration must be performed.	
%	Troubleshooting by symptoms		
٤,	Releases and Procedures		
¢,	Repair times		
<			

Bosch control system of **Yanmar engines**, replacement of Diesel Oxidation Catalyst (DOC) and the DPF particulate filter.

**EDC** (level 21, 23, 33 and 34) engine control systems, reset of the DPF particulate filter ash content.

HCU hydraulic lift, rear lift calibration in 7020 Series models.

**PTH** transmission, calibration and parameter setting in **3** and **4 Series** models.











#### **KUBOTA**

**VCU1** Central Computer, parameter setting and accelerator pedal calibration. **VCU2** also includes calibrations.

#### LANDINI & McCORMICK (ARGO)

	McCORMICK > X7.4		PASS THRU Series (Armrest), engine: Tier 3 / Sta		-				ion	S		×
8	Diagnostics menu	E	SYSTEM CHECKS \ ADBLUE/DEF DOSI	NG VALVE								
Ω	System technical data	i	DURING THE TEST, A SOUND COMING	FROM THE ADBLUE/DEF MET	ERING	VALVE WI	LL BE HE	ARD 3 TIN	MES			~
-1	Diagrams											×
	Vehicle service data		PROCESSING									?
K	Vehicle technical data		PROCESSING									6
3%	Troubleshooting by symptoms											
e.	Releases and Procedures											
¢,	Repair times											
è												

**ACU** exhaust gas aftertreatment system, check of the dosing pump and AdBlue/DEF dosing valve.

New systems: TC transmission, instrument cluster, ARM armrest controller and CC cab module.

#### **MASSEY FERGUSON**

Autotronic 5 – Dyna transmission, parameter modification and calibration.

Autotronic 5 – Linkage hydraulic lift, parameter modification.

**DCC** instrument cluster, calibrations of the accelerator pedal, clutch pedal and the gearshift lever.

A	GRICULTURAL VEHICLES	> MASSEY FERGUSON > 5700 Dyna-4 (Global) > Au	utotronic 5 - Dyna 4, Transmission	S 🗲 Discor	
8	Diagnostics menu	PARAMETERS \ MODIFY PARAMETERS			
Ω	System technical data	2 SELECT THE CONFIGURATION CORRESPOND	ING TO THE VEHICLE		
ł	Diagrams				
4	Vehicle service data	(B) TRACTION, AXLE CONFIGURATION	N/A	(1) 2WD (2 WHEEL DRIVE)	]
ĸ	Vehicle technical data	(C) TYPE OF POWERSHUTTLE MODULE CONTROL SOLENOID VALVE	(3) EVP3265, COLD START ASSIST	(3) EVP3265, COLD START ASS 🗸	]
z	Troubleshooting by symptoms	(D) PROPORTIONAL GROUND SPEED POWER TAKE-OFF	(1) ELECTRICAL	(1) ELECTRICAL	]
٩,	Releases and Procedures	(F) SLIP CONTROL	N/A	(0) NOT PRESENT ~	]
¢,	Repair times	(G) HYDRAULIC SYSTEM	(62) 5700, HYDRAULIC OPEN-CENTRE CIRCUIT, 57 L/min / 98 L/min (PUMP, ENGAGEMENT)	(62) 5700, HYDRAULIC OPEN 🗸	]
		(H) POWER TAKE-OFF CONFIGURATION	(8) ELECTRICAL / THREE-SPEED POWER TAKE-OFF	(8) ELECTRICAL / THREE-SPEED V	]
<		(J) SUPERCREEP GEAR	(2) TRACTORS WITH SUPERCREEP TRANSMISSION (MINIMUM SPEED: 0.1 km/h)	(2) TRACTORS WITH SUPERCR V	1

#### **NEW HOLLAND**

MD1 Tier 5/Stage V engine control System, checks and maintenances.

#### VALTRA

AC71.5 maintenance system, system checks and reset of the instrument cluster intervals and the engine control system.









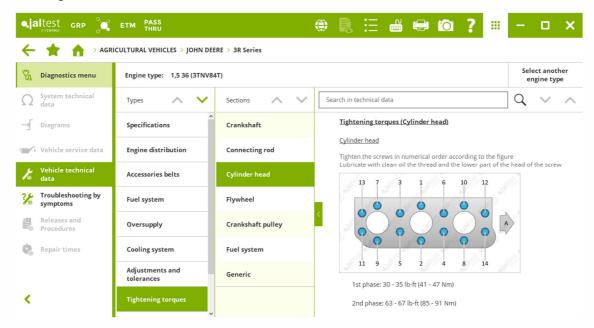


# **TECHNICAL INFORMATION**

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.

## Technical and maintenance data of the vehicle

#### Yanmar engine technical data.



### Wiring diagrams and technical information

Wiring diagrams and updated technical information in systems of all agricultural vehicle brands.

## Troubleshooting guides and procedures

Troubleshooting guides and procedures in **JOHN DEERE**.











## System Display

System Display in the most important systems of numerous brands.

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🔶 🌟 🏫 > AGR	RICULTURAL VEHICLES > NEW HOLLAND > TL Seri	ries > MA, Transmission Electronic Control Unit	Connect	> _ > FENDT > 500 Vario Se	eries (Power), engine: Final Tier 4 / Stage IV > EMR4 - EDC 17 CV52	t, Electronic Diesel Control, Common Rail 🛛 🚽 🔶 Disconnect
🗞 Diagnostics menu	- Wiring diagram	Hide components list	Select another configuration	🖓 Diagnostics menu	MAINTENANCE \ PARTICULATE FILTER REGENERATION	
Ω System technical data	Search in the component list Q	Ajaftest er conu	ann 👔 🔍	Ω System technical data		
J Diagrams	Show full list	MA_V20.2	. S Q	→ Diagrams		Arecriviation Paccares 33 % ? Colluco
Wehicle service data	CSS, Operator presence switch		Service 6	Vehicle service data		Shook after the PAR.
Vehicle technical data	CS6, Reverse gear switch	CPUNA 77 17 000 CPINA 0 00 00 00 00 00 00 00 00 00 00 00 00 0	N 🔒	Vehicle technical data	· · · · · · · · · · · · · · · · · · ·	
% Troubleshooting by symptoms	CS7, Forward switch		2 <b>?</b> ‡	% Troubleshooting by symptoms		
Releases and Procedures	CS8, Clutch pedal switch	8000 007 0 0 2000 0 0 2000 0 0 2000 0 0 1 0 0 2000 0	sé 🖸	Releases and Procedures		
Repair times	CS9, Clutch pedal switch		1/1	Repair times	EDHAUST GAS AFTERTREATMENT SYSTEM, BURNER,	
	CX1, Diagnosis connector		D		OPERATING MODE	SOOT CONTINT ON THE 30 %
۲.	CY1, Clutch A control solenoid valve		allest	۲.	STANDBY  BURNER - BOOST PREHEATING PHASE	CONTENT 2 NO







