

# IDC5 OHW 24.0.0 SOFTWARE UPDATE

Dear Customer,

the new diagnostic features included in the **IDC5 OHW 24.0.0** update, which also contains the continuous updates **IDC5 OHW 23.0.1 / 23.0.2 / 23.1.0 / 23.1.1 / 23.1.2 / 23.1.3 / 23.2.0 / 23.2.1 / 23.2.2 / 23.2.3 / 23.3.0 / 23.3.1**, allow working on a large number of vehicles that belong to makes of the most popular manufacturers. The work TEXA's developers carried out on agricultural vehicles, forklifts, telehandlers, construction vehicles and special vehicles guarantees all mechanics the opportunity to use diagnostic tools that are always updated and state-of-the-art, to operate successfully on the vast majority of the vehicles on the road.

**IDC5 OHW 24.0.0** includes new possible selections for the major makes on the market, among which: **ALLISON, AMMANN, ANTONIO CARRARO, ASV, ATLAS COPCO, AUSA, AVANT, BAOLI, BERGMANN, BOBCAT Engine, CASE CE, CASE iH, CATERPILLAR Engine, CHALLENGER, CLAAS, CLARK, CNH, CROWN, CUMMINS Engine, DETROIT Engine, DEUTZ Engine, DEUTZ-FAHR, DOOSAN, DOOSAN Engine, EBERSPÄCHER, EXTREME, FARESIN, FARMOTION Engine, FENDT, FPT Engine, GEHL, GENIE, GRADALL, GROVE, HAKO, HAMM, HATZ, HIDROMEK, HINO Engine, HITACHI, HITACHI , HURLIMANN, HYDREMA, HYUNDAI, HYUNDAI CE, ISUZU Engine, JACTO, JCB, JLG, JOHN DEERE, JOHN DEERE (Brazil), JOHN DEERE CE, KÄSSBOHRER GELÄNDEFAHRZEUG, KOBELCO, KOHLER Engine, KOMATSU, KRONE, KUBOTA Engine, LAMBORGHINI, LANDINI, LIEBHERR, LINDE, LINDNER, LINK-BELT, MAGNI, MAHINDRA, MAN ENGINES, MANITOU, MASSEY FERGUSON, McCORMICK, MECALAC, MERCEDES-BENZ Engine, MERLO, MITSUBISHI, NEW HOLLAND, NEW HOLLAND (LATAM), NEW HOLLAND CE, PERKINS Engine, PRINOTH, SAME, SANY, SCANIA Engine, SISU Engine, SKYJACK, SNORKEL, STEYR, STILL, SULLAIR, SUMITOMO, TADANO, TAKEUCHI, TEREX, TIDD, TOYOTA, VALPADANA, VALTRA (LATAM), VERMEER, VOLKSWAGEN Engine, VOLVO CE, VOLVO PENTA, WACKER NEUSON, XCMG, YANMAR Engine, ZETOR, ZF.**

The **OHW 24.0.0** update also offers new, very useful Wiring Diagrams and DASHBOARDS.

# NEW SOFTWARE FEATURES

## Guided Diagnosis.

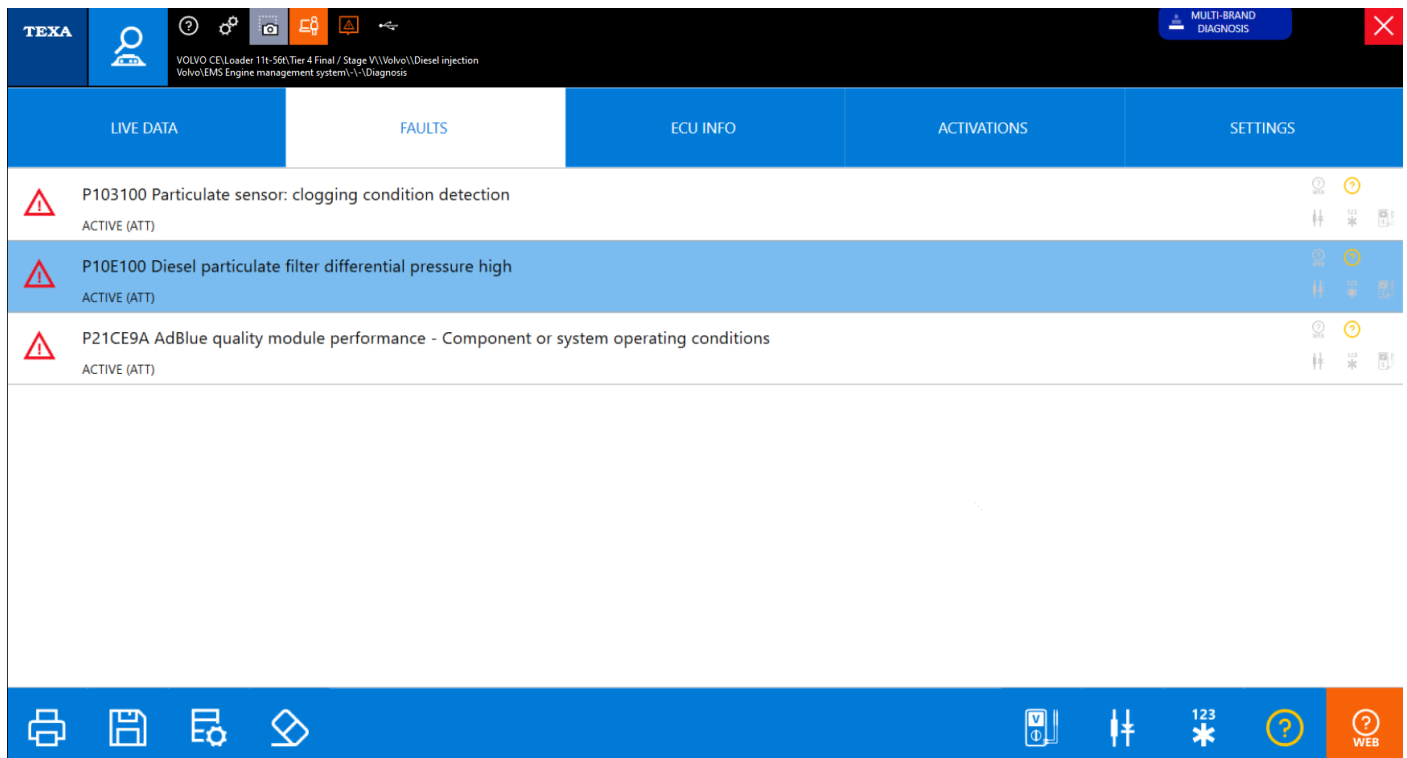
Introduced with the **IDC5 OHW 24.0.0** version and based on the principle of the previous "System Sanity Check" process, this new function allows users to perform a guided and in-depth troubleshooting check.

The guided diagnosis will show in a graphic, intuitive and interactive way, the actions to be taken to perform a specific repair or to check a component, guaranteeing its solution through suggestions and indications based on a logical process.

When available for a specific diagnostic system, the Guided Diagnosis function can be recalled



in the error page, through the specific icon associated with the error.



*Error page screen.*

The procedure will show the value of the parameters associated with the error, then it will be up to the mechanic to evaluate whether the value can be considered correct, and to confirm by clicking whether it is valid or not.

The screenshot shows the TEHA diagnostic software interface. At the top, there is a header with the TEHA logo, a user profile icon, and a 'MULTI-BRAND DIAGNOSIS' button. Below the header, the main area is titled 'DPF guided diagnosis'. A 'Live Data Evaluation' button is visible. The data table shows the following parameters:

| Parameter                                     | Value | Unit | Status                  |
|---|-------|------|-------------------------|
| DPF pressure difference                       | 2.6   | kPa  | Valid (Green checkmark) |
| Engine speed                                  | 640.0 | rpm  | Valid (Green checkmark) |
| Exhaust gas temperature upstream of the DOC   | 216.0 | °C   | Valid (Green checkmark) |
| Exhaust gas temperature upstream of the DPF   | 241.6 | °C   | Valid (Green checkmark) |
| Exhaust gas temperature downstream of the DPF | 267.2 | °C   | Valid (Green checkmark) |

At the bottom, there is a blue bar with the text 'Press CANCEL to exit from the guided diagnosis procedure' and two buttons: 'CONFIRM' (green) and 'CANCEL' (red).

*Parameter evaluation.*

If the value of the parameters is considered to be within standard, the Guided Diagnosis procedure will show a possible series of additional checks or the possibility to clear the error.

The screenshot shows the TEHA diagnostic software interface with a 'Help' window open. The 'Help' window displays reference values for 'DPF pressure difference':

- Engine OFF: -1.2...1.2 kPa (-1.7...1.7 psi)
- Engine at idle: 0...35 kPa (0...5 psi), the value increases as the engine speed increases
- With clogged filter: > 35 kPa (> 5 psi)
- Operating range: -2...140 kPa (-0.29...20.3 psi)

The main interface shows the 'Live data reading' button. The data table shows the following parameters:

| Parameter               | Value | Unit | Status                  |
|-------------------------|-------|------|-------------------------|
| DPF pressure difference | 2.6   | kPa  | Valid (Green checkmark) |
| Live data evaluation    |       |      | Available (Blue button) |
| Error clearing          |       |      | Available (Blue button) |

At the bottom, there is a blue bar with the text 'Select if the live data value is correct' and 'Press CANCEL to exit from the guided diagnosis procedure'. There are also 'CONFIRM' (green) and 'CANCEL' (red) buttons.

*Possibility to clear the errors.*

TEXA MULTI-BRAND DIAGNOSIS

VOLVO CE Loader 11t-56t Tier 4 Final / Stage V \Volvo\Diesel injection  
Volvo EMS Engine management system \Diagnosis

DPF guided diagnosis

Technical data sheet check

DPF pressure difference 2.6 kPa

**Self-diagnostic device sheets**

Incorrect fuel quality  
Fault in the differential pressure sensor

Recommended repair

Perform the following checks:

- Check and correct the error codes related to the engine or differential pressure sensor
- Check the efficiency of the DPF and its proper assembly
- Verify the efficiency of the differential pressure sensor and its electrical and pneumatic connections
- Make sure there are no obstructions to the passage of the exhaust gases also in the section after the DPF, verify the absence of crystallised urea in the SCR
- Remove the flexible pipe and activate the accelerator a few times to eliminate any possible loose deposits of soot
- Check if there is visible smoke when activating the accelerator in neutral
- If there is an abnormal amount of smoke coming from the engine
- Check for the presence of oil in the flexible pipe or in the silencer's intake
- If there is oil, visually check the turbocharger
- Check for possible fuel leaks from the injectors
- Check the accelerator, if applicable
- Check for possible leaks in the exhaust system

Notes

*Evaluation with technical bulletin.*

TEXA MULTI-BRAND DIAGNOSIS

VOLVO CE Loader 11t-56t Tier 4 Final / Stage V \Volvo\Diesel injection  
Volvo EMS Engine management system \Diagnosis

DPF guided diagnosis

Wiring diagram check

DPF pressure difference 2.6 kPa

**Device card**

27080002 Component sheet  
Check set for Differential pressure sensor

Information

This technical sheet supplies general information regarding the electrical/electronic component selected.  
This type of information sheet is only available for the components for which a detailed technical sheet is not provided for.

Description

A differential pressure sensor is used to measure the pressure drop between two points.  
In fact, it has two inputs that correspond to the two measurement points.  
It is a combined sensor, made up of two pressure sensors built into a single body.

*Evaluation with wiring diagram.*

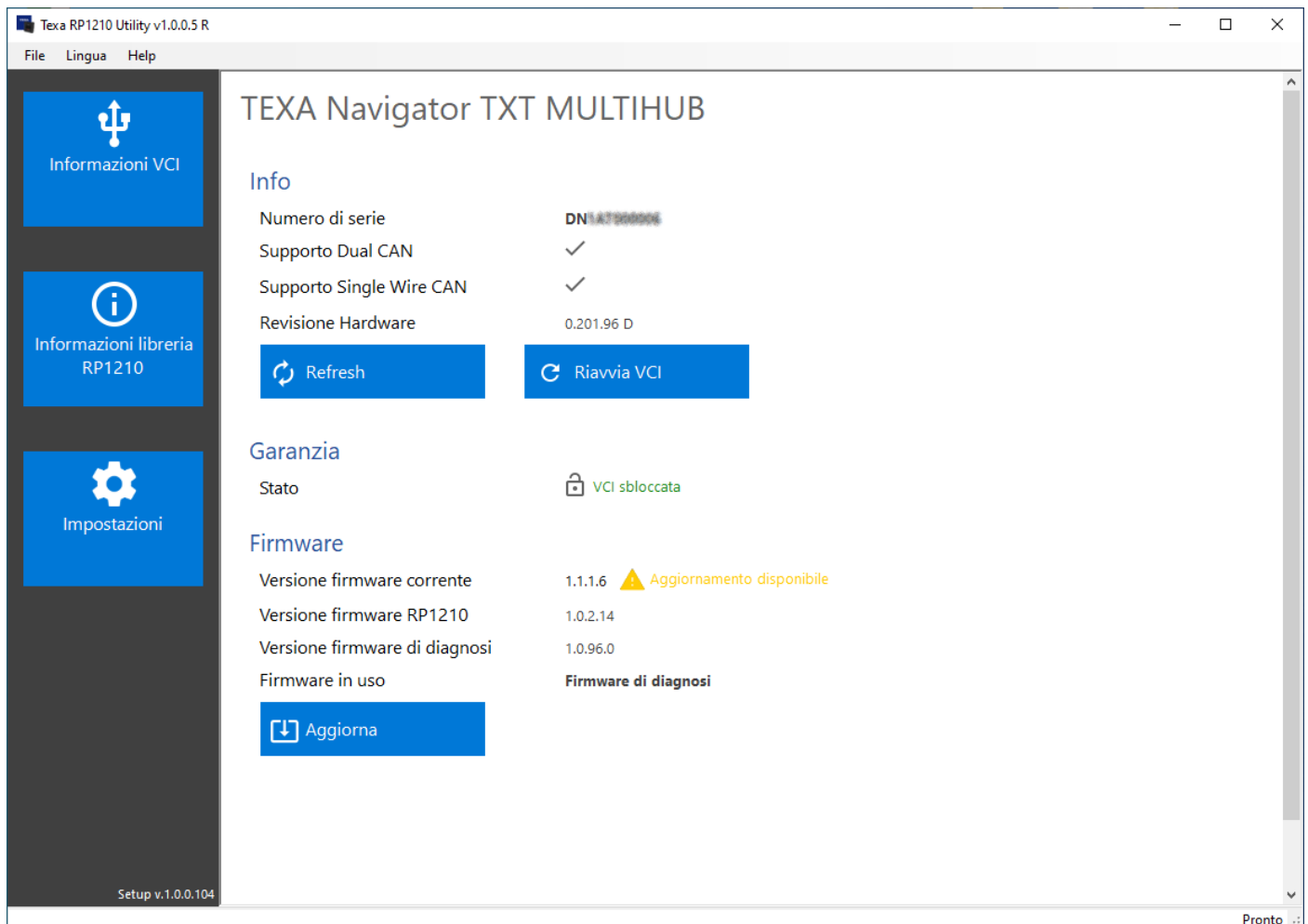
## RP1210 function.

Starting from the **IDC5 OHW 24.0.0** version, the new **PASS-THRU** functions have been implemented.

Using the TEXA RP1210 application, the RP1210 protocol has been implemented, which can only be used with the TEXA Navigator TXT MULTIHUB VCI.



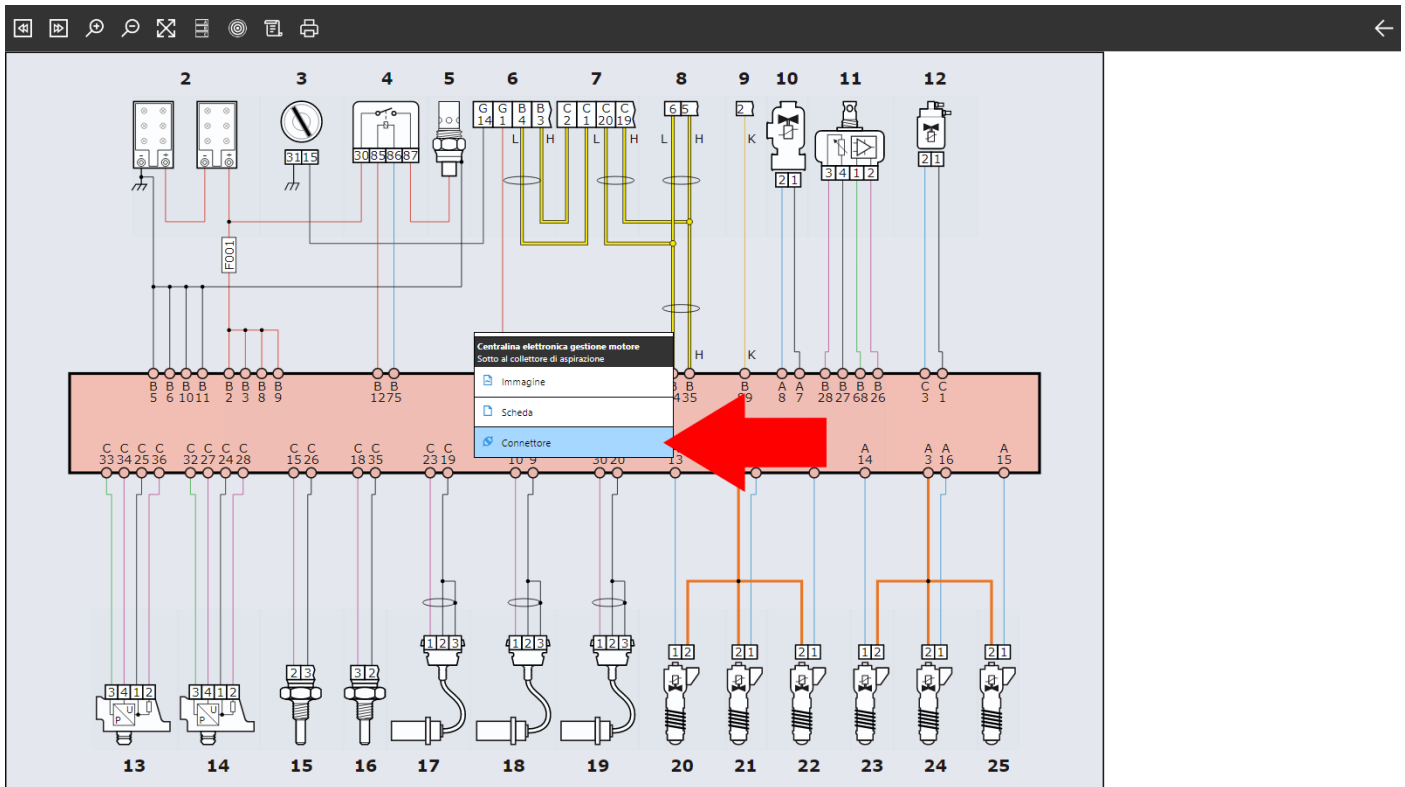
*RP1210 application.*



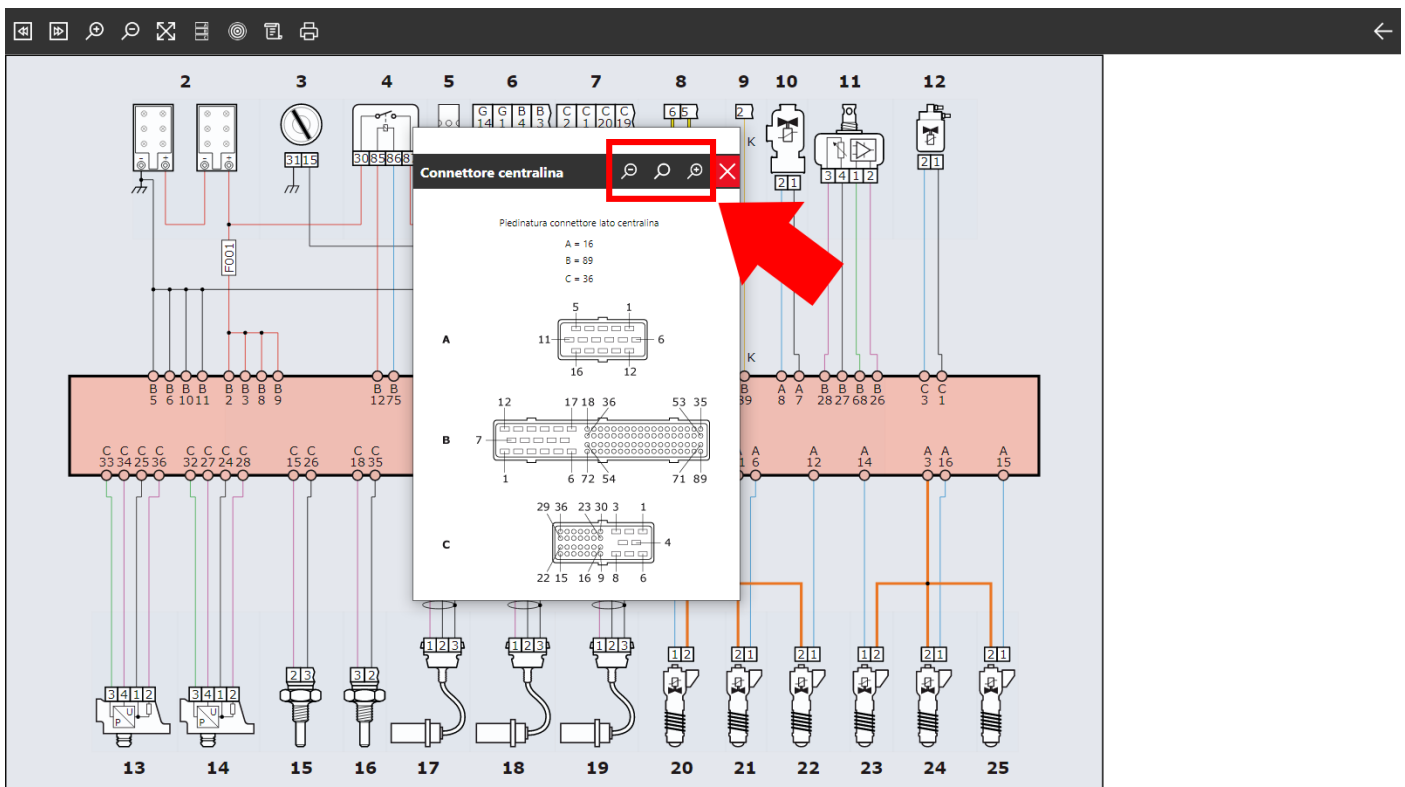
*TEXA RP1210 menu.*

## Zoomed image of connector in wiring diagram.

Starting from the **IDC5 OHW 24.0.0** version, the new image zoom function has been implemented for connectors in the wiring diagram.



*Wiring diagram connector image.*



*Image zoom.*

## Dashboard button flashing in the parameter page.

Starting from the **IDC5 OHW 24.0.0** version, a new visual function has been implemented for the Dashboard button in the Parameter page.

The screenshot displays the TEHA diagnostic software interface. The top navigation bar includes the TEHA logo, a user profile icon, a help icon, a settings icon, a camera icon, a lock icon with the number 5, and a 'DIAGNOSI MULTIMARCA' button. Below the navigation bar, there are five tabs: 'PARAMETRI 1/133', 'ERRORI', 'INFO ECU', 'ATTIVAZIONI', and 'REGOLAZIONI'. The 'PARAMETRI' tab is active, showing a list of engine parameters. A red arrow points to the 'Dashboard' button in the bottom navigation bar, which is highlighted with a red box. The parameters listed are:

| Parameter                                     | Value         |
|---|---------------|
| Pressione dell'olio motore                    | 448.0 kPa     |
| Livello olio motore                           | N.A. %        |
| Tempo totale motore acceso                    | 4682.3 h      |
| Modalità veicolo                              | Motore spento |
| Tensione batteria                             | 25.6 V        |
| Percorrenza totale                            | 5242.9 km     |
| Distanza percorsa totale                      | 891289.6 km   |
| Totale carburante utilizzato durante la guida | 167772.2 l    |
| Ore di guida totali                           | 27984.4 h     |
| Totale carburante utilizzato                  | 167772.16 l   |
| Temperatura olio motore                       | 25.0 °C       |

*Dashboard button flashing.*

## DIAGNOSIS

### AGRICULTURAL VEHICLES

#### **41 makes updated.**

*(ALLISON, ANTONIO CARRARO, BOBCAT Engine, CASE iH, CHALLENGER, CLAAS, CUMMINS Engine, DEUTZ Engine, DEUTZ-FAHR, EBERSPÄCHER, FARESIN, FARMOTION Engine, FENDT, FPT Engine, HAKO, HURLIMANN, JACTO, JCB, JOHN DEERE, JOHN DEERE (Brazil), KOHLER Engine, KRONE, KUBOTA Engine, LAMBORGHINI, LANDINI, LINDNER, MAHINDRA, MASSEY FERGUSON, McCORMICK, MERCEDES-BENZ Engine, NEW HOLLAND, NEW HOLLAND (LATAM), PERKINS Engine, SAME, SISU Engine, STEYR, VALPADANA, VALTRA (LATAM), YANMAR Engine, ZETOR, ZF).*

### CONSTRUCTION VEHICLES & SPECIAL VEHICLES

#### **59 makes updated.**

*(ALLISON, AMMANN, ASV, ATLAS COPCO, AUSA, AVANT, BERGMANN, BOBCAT Engine, CASE CE, CATERPILLAR Engine, CUMMINS Engine, DETROIT Engine, DEUTZ Engine, DOOSAN, DOOSAN Engine, FPT Engine, GEHL, GRADALL, GROVE, HAMM, HATZ, HIDROMEK, HINO Engine, HITACHI, HYDREMA, HYUNDAI CE, ISUZU Engine, JCB, JOHN DEERE CE, KÄSSBOHRER GELÄNDEFahrZEUG, KOBELCO, KOHLER Engine, KOMATSU, KUBOTA Engine, LIEBHERR, LINK-BELT, MAN Engine, MECALAC, MERCEDES-BENZ Engine, MERLO, NEW HOLLAND CE, PERKINS Engine, PRINOTH, SANY, SCANIA Engine, SULLAIR, SUMITOMO, TADANO, TAKEUCHI, TEREX, TIDD, VERMEER, VOLKSWAGEN Engine, VOLVO CE, VOLVO PENTA, WACKER NEUSON, XCMG, YANMAR Engine, ZF)*

### FORKLIFTS & TELEHANDLERS

#### **31 makes updated.**

*(AUSA, BAOLI, CATERPILLAR Engine, CLAAS, CLARK, CROWN, CUMMINS Engine, DEUTZ Engine, DOOSAN, XTREME, FARESIN, FPT Engine, GENIE, HYUNDAI, JCB, JLG, KOHLER Engine, KUBOTA Engine, LINDE, MAGNI, MANITOU, MERLO, MITSUBISHI, PERKINS Engine, SKYJACK, SNORKEL, STILL, TOYOTA, WACKER NEUSON, YANMAR Engine, ZF)*

## WIRING DIAGRAMS

**467 new wiring diagrams.**

## DASHBOARD

**1656 new dashboards (parameters, settings and activations).**

**44 new TGS3 dashboards.**

## TECHNICAL SHEETS

**742 new technical bulletins.**



# WARNINGS

## **DIAGNOSTIC LIMITATIONS WARNING**

Although TEXA strives to keep its diagnostic tools up to date, it ever more often finds itself having to deal with very complex vehicle electronics that requires tools with advanced technological features. For this reason, we inform you that as of 1 March 2023, the software linked to the TEXA NAVIGATOR TXT tools with S/Ns that start with "DNTxxxxxxx" can no longer be updated.

For further information contact your TEXA retailer.

Good luck with your work!

TEXA S.p.A

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