



# Bosch ESI[truck] Heavy Duty Truck Software Update Version 2022/4

[www.boschdiagnostics.com](http://www.boschdiagnostics.com)

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## Welcome

In version 2022/4, Bosch continues to expand the ESI[truck] diagnostic coverage and capabilities. A brief summary of all the content additions are on the following pages. All of the additional features and functions are too complex to summarize in this newsletter, but we are confident you will be happy with the value the ESI[truck] Diagnostic system adds to your professional shop.

See the graphs beginning on the next page that highlight the ever-growing capabilities that you – our valued customers - support when you make the decision to renew your annual software license.

If you are interested in even more of the details behind all the great improvements, please visit [www.boschdiagnostics.com](http://www.boschdiagnostics.com), and navigate to the 3824A (ESI Truck) page. Click on the 'View Vehicle Coverage' link to navigate the user friendly interface and check detailed coverage.

## New 'ELS' Software Behavior

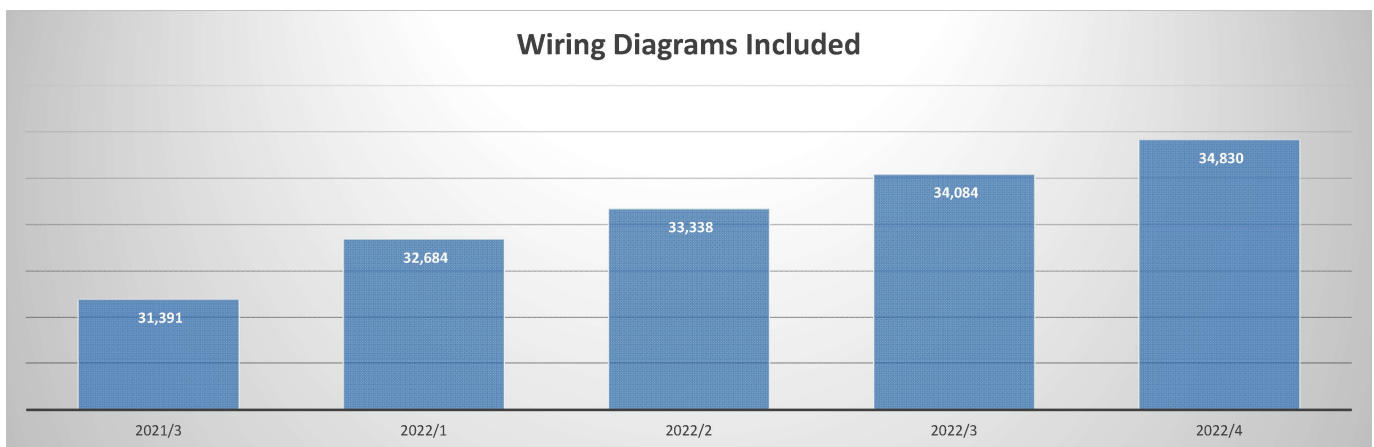
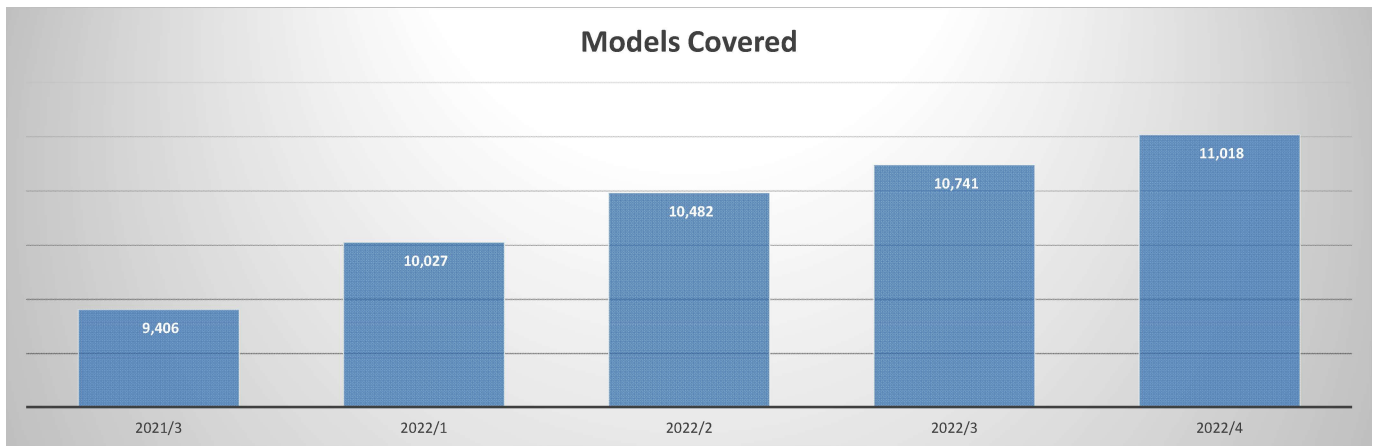
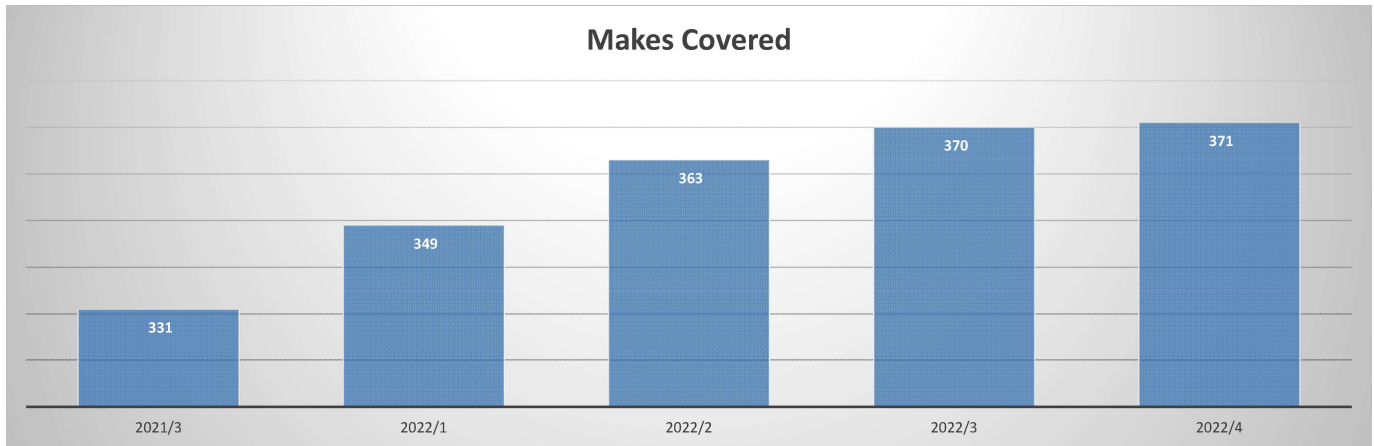
ELS stands for **E**xtended **L**icense **S**ubscription. We are excited to remind you that we have implemented functionality so your ESI Truck software will no longer stop functioning if you decide to not pay for the annual update.

In order for the ELS behavior to 'kick in', you are required to have purchased (and registered) your new tool or annual renewal **on, or after August 1, 2021.**

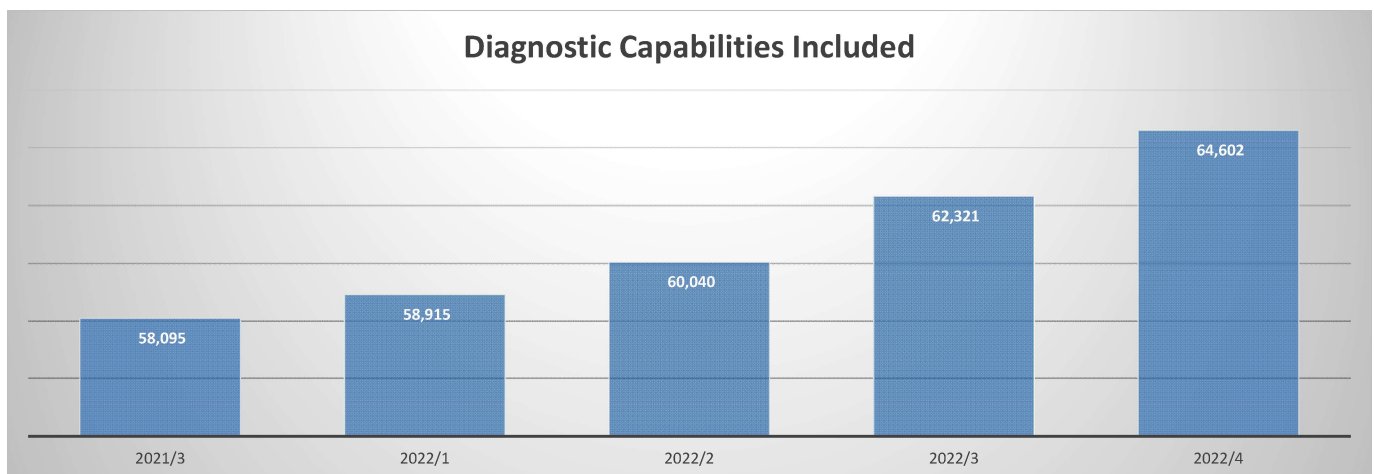
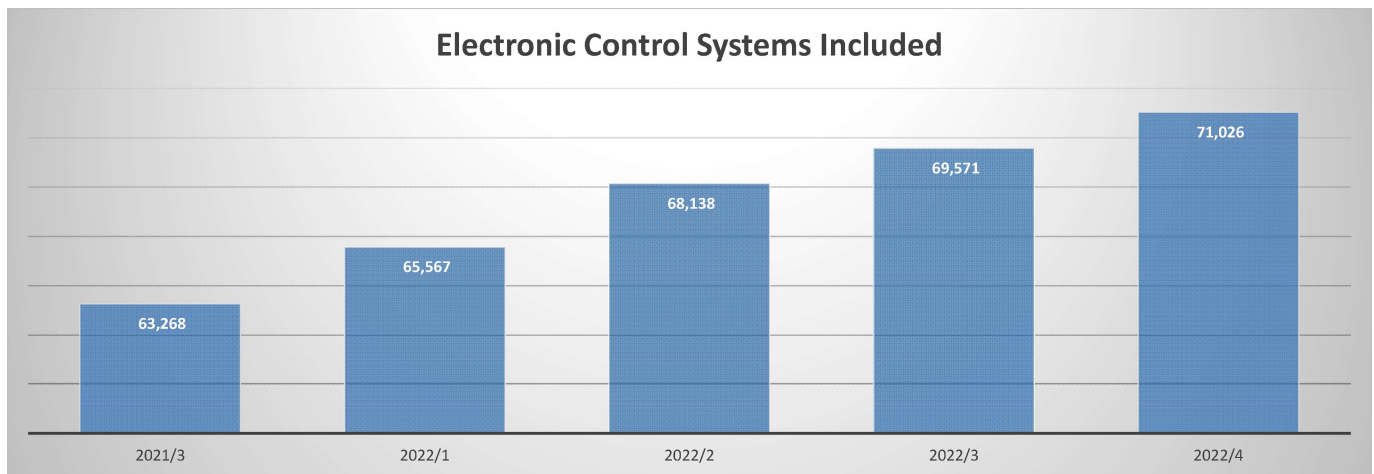
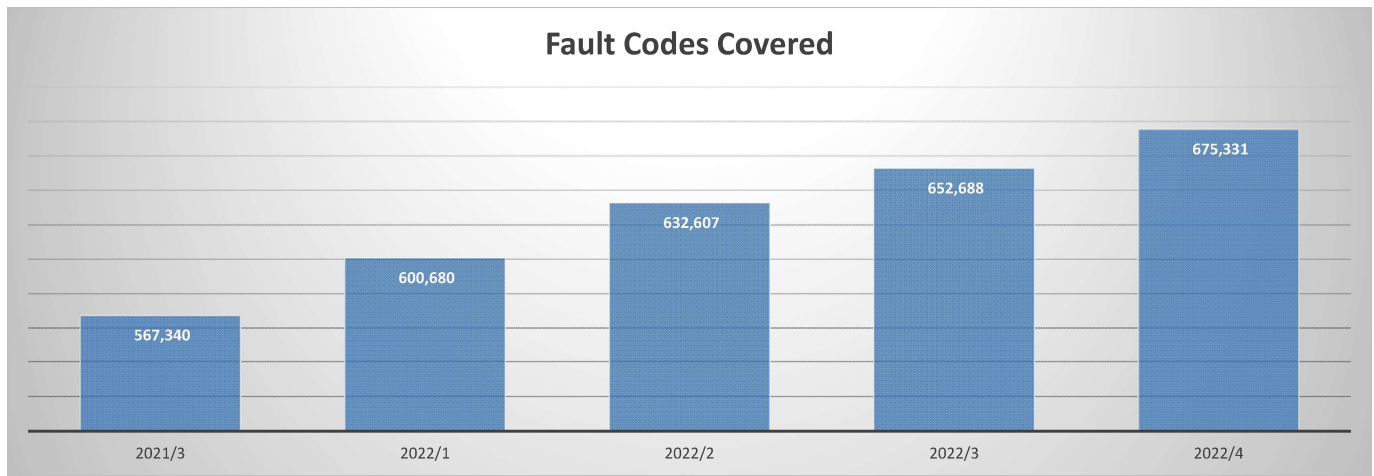
Of course, we believe you will still find sufficient value in our periodic updates and continue to purchase on an annual basis.

Please contact your distributor or Bosch support team if you have any questions.

# Expanding Coverage



## Expanding Coverage (continued)



# Additional Vehicle Coverage & Highlights

## Heavy –Duty Truck

*New content has been added for the following Heavy Duty Systems:*

### ▶ ALLISON

- New Allison 6th Gen of transmissions.
- Allison 5th Gen: new parameter group: ECU identification, Prognostics, PTO, automatic neutral and clutch remaining life.
- Allison 4th Gen: reset fast adaptative and clutch remaining life.
- WTEC-III Series: oil level manual pressure check.

### ▶ BENDIX

- New iTPMS
- Safety Direct (SDP), parameters.
- New ADB pad wearing sensing system.
- ABS/ATC U1x (Gen 4) and ABS 2X (Gen 5): component replacement guides, wheel speed sensors, modulators activation, etc.

### ▶ CATERPILLAR

- All EPA 98/04/07 engines: specific component pictures for each SN.

### ▶ CUMMINS

- All systems
  - o New variants.
  - o New format for copy/paste and display parameters.
- GHG 21 systems
  - o L9 CM2450: AdBlue/DEF heaters check, maximum vehicle speed parameters.
  - o New maintenance function for X15 CM2450 and X12 CM2450: RESET OF THE DIFFERENTIAL PRESSURE SENSOR OF THE EGR VALVE, action needed to validate the repair of the 1866 fault code.
- GHG 17 SYSTEMS
  - o ISF/F 3.8 CM2350: new systems parameters (accelerator lock, engine brake, idle shutdown, idle speed, maximum vehicle speed, SCR System inducement mode, vehicle speed signal).
  - o B4.5/6.7 CM2350: aftertreatment data record.
  - o L9 CM2350: new system display included in cylinder cut-out, system display of the aftertreatment system in EcoFit UL2.
- GAS SYSTEMS
  - o ISX12 G CM2180: all pending parameters, cruise control, fan control, idle speed, maximum vehicle speed, engine brake, parking brake switch, tyre wear among others.

### ▶ DETROIT DIESEL-MBE

- DDEC13/16/20 vehicles
  - o New variants have been added, especially for 2022/2023 vehicles.
- DDEC VI/10 EPA07/EPA10 & MBE EPA07
  - o Fleet management parameters group.
  - o VIN synchronization.

### ▶ EATON

- Gen 3: calibration and maintenance routines, new parameters group 'Gear Control'.
- Endurant & Procision: Animated System Display.

### ▶ FREIGHTLINER

- Model technical data for most common models: Cascadia, Coronado, Business Class.
- Cascadia & New Cascadia Modules
  - o Animated System Display for HVAC systems.

### ▶ INTERNATIONAL

- MV Series technical data.

▶ NAVISTAR

- MaxxForce & SCR engines:
  - A26, New parameter group: overspeed.
  - MaxxForce 13 (2013), new parameter groups: overspeed, vehicle signal speed, service interval request

▶ PACCAR

- New systems! PCI-2, VECU-2, HVAC, DD, DCP, DCD

▶ VOLVO

- EMS: NOx and Lambda O2 service routines.
- ACM: DEF metering module cleaning test.
- VECU 5: parameters, wiring diagrams and technical data.

## Trailers

▶ CARRIER

- Technical release to perform the maintenance reset in VECTOR 1550 modules.
- control system in Vito [447], Sprinter [906] and Sprinter [907/910] models.

## Off-Highway Software

NOTE – these features are only available if you have purchased the Off-Highway add-on module for the *Bosch ESI Truck*. To learn more about this additional capability, visit [www.boschdiagnostics.com](http://www.boschdiagnostics.com) or see your tool distributor.

- ▶ Online Repair (Troubleshooting) module is free of charge during the promotional period **until the end of 2022**.

## Agricultural Vehicles Additional Coverage

*New content has been added in the following Agricultural Vehicle Systems:*

▶ New models

- CASE iH
  - Farmall R Compact Series
  - Sugar cane harvesters:
    - 4000 Series
    - 9000/9900 Series.
- DEUTZ-FAHR
  - 8 TTV Series
  - 6 C Series
  - 6C TTV Series
- JOHN DEERE
  - 420 Series
  - 6000 Series forage harvester.
- KUBOTA
  - B2 Series
  - STW Series
- MASSEY FERGUSON
  - 2600 F Series
  - 2600 Series
  - 1700 Series
- MAZZOTI
  - IBIS 380 LP, engine: Tier 4/ Stage IIIB.
- NEW HOLLAND

- T3F Series (TMR), engine: Interim Tier 4/Stage IIIB
- T4S Series (TMR), engine: Interim Tier 4/Stage IIIB
- Workmaster Series (50, 60, 70), engine: Final Tier 4/Stage IV
- Workmaster Series (95, 105, 120), engine: Final Tier 4/Stage IV

In general, extended coverage with advanced functions in the EDC MD1 engine control system present in several brands such as AGRIFAC, FARESIN, GRIM, GUARESI, CASE IH, LANDINI, McCORMICK, etc. In addition, system wiring diagram configurations and component location images have been included in this system as well as in the EDC 17 CV41 + Denox 2.2 system.

▶ ARBOS

- New DCU exhaust gas aftertreatment system in Kohler engines.

▶ BOBCAT

- ECM Kioti engine control system, advanced system functions.

▶ CASE IH

- New Semi Power Shift and Full Power Shift transmission systems.
- New TRANS transmission system in 8000/8800 Series models, which includes technical data and wiring diagrams.
- Technical release of the steering calibration in the AST system.
- In addition, technical data and wiring diagrams have been included in the SCM1, SCM2 and SCM3 harvest control modules.

▶ CHALLENGER

- New Chassis Controller system that includes technical releases for the calibration of the transmission, the rear power take-off clutch, etc.
- New LCP lighting system.
- New AccuTerminate electronic module.

▶ CLAAS

- ECU HPCR (Level 33) engine control system, aftertreatment test of NOx sensors.
- New System Display.

▶ DEUTZ-FAHR

- SECU maintenance control system in the 9 TTV Series model and MVCU maintenance control system in the 5 D Series model.

▶ FENDT

- New MFA armrest system that includes System Display.
- New LCP lighting system.
- New instrument cluster.
- Technical release of the front suspension calibration in the Comfort system in the 300 Vario Series, engine: Tier 3/ Stage III model.

▶ HÜRLIMANN

- SECU maintenance control system in the XA 60/70/80/90/100 model.

▶ JOHN DEERE

- New ECU HPCR (Level 40) engine control system.
- New SCC spool valve control system.
- New XMB and XSB B-Box steering control systems.
- New ECU HPCR (Level 40) engine control system.
- New PDU instrument cluster.
- New RCU rear module and FCU front module.
- New GLM control monitor.
- New CSM modular switch panel.
- New CAB control system.
- New LC2 header control system.

- New guides to access the menu of harvester calibrations in the FCU system of CH500 Series and CH600 Series models.
- ECU HPCR (Level 33) engine control system, aftertreatment test of NOx sensors.
- XSA A-Box steering control system, calibration of the steering valve, the wheel rotational angle sensor and the steering wheel position sensor.
- XSC C-Box steering control system, steering valve calibration.
- PTR transmission, new system configuration parameters.
- Troubleshooting guides by error code in several systems of the brand.
- In addition, technical data, wiring diagram configurations and component location images have been included in several systems of the brand besides wiring diagrams have been added in the ECU Denso (Level 16) engine control systems and in the PTP transmission control system.

▶ KIOTI

- ECM Kioti engine control system, advanced system functions.

▶ MASSEY FERGUSON

- New Mitsubishi Tier IV engine control system.

▶ NEW HOLLAND

- New Range Command and Dual Command transmission systems.
- EDC MD1 engine control system, extended coverage with advanced functions such as the compression test, the cylinder cut-out or the throttle valve check in the exhaust, among others.
- Technical release of the rear lift calibration in the HCU system in the T5 Series – Electro Command (TMR) model.
- Troubleshooting guides by error code in several systems of the brand.
- In addition, wiring diagram configurations and component location images have been included in the EDC 17 CV41 + Denox 2.2 engine control system.

▶ SAME

- New location images of the transmission blocks included in Diamond Series models.

▶ STEYR

- REHR spool valve system, display of the spool valve identification codes.
- Technical release of the ETC transmission calibration.

In addition, wiring diagram configurations and component location images have been included in the EDC 17 CV41 + Denox 2.2 engine control system.

As in tractors and harvest equipment, extended coverage with the aftertreatment test of NOx sensors in the ECU HPCR (Level 33) engine control system present in models of brands such as AIR-O-FAN, COE, HAGIE, MAZZOTTI and SITREX-AGM. Furthermore, improved wiring diagram configurations in the ECU Denso (Level 16) and ECU Denso HPCR (Level 11) engine control systems.

## Construction Vehicles Additional Coverage

*New content has been added in the following Construction and Off-Highway Vehicle Systems:*

### ▶ New brands

- KATO
- POWERSCREEN
- AGRIMAC
- SANY

### ▶ New models in the following brands

- HITACHI
  - New models for 7 Series
- LIEBHERR
  - New models, 2 families and 12 models included.
- LIUGONG
  - New 900F Series crawl excavator models.

### ▶ CASE CE

- Wiring diagram configurations have been included in 750M and 850M models.

### ▶ CATERPILLAR

- New MCM central computer for 900 Series wheel loaders.
- C-9.3 and C-15 (on SAE J1939) engine control systems among others, the ignition system check and the system heater check have been developed in the ARD exhaust gas aftertreatment system.
- EHCUI (on CDL) hydraulic control system for wheel loaders, steering system calibrations.
- EHCUI (on SAE J1939) hydraulic control system for D6T Dozer, calibration of the blade raising/lowering solenoid valves and automatic calibration of the implement solenoid valves.
- Wiring diagram configurations have been included in 370 Series crawl excavators.
- Wiring diagram configurations have been included in C-3.6, C-4.4, C-7.1, C-15, C-18, C-27 and C-32 engines.

### ▶ CUMMINS

- More than 500 references of CUMMINS systems have been included. In these systems, the display format of parameters has also been improved. In addition, the System Display has been included in engine control systems such as B4.5/6.7 and L9 CM2350. The parameter copying and pasting to the control unit is also available in these systems.
- ISF/F 3.8 CM2350 and QSF 3.8 CM2350 engine control systems, there are new advanced diagnostics functions such as the cylinder cut-out and the parameter configuration.
- (Technical releases and procedures in X15 engines such as “Check the fuel pump” or “Check for leaks in the oil cooler”, among others.

### ▶ DOOSAN

- DL06/DL08 (K line) engine control system, compression test.

### ▶ ISUZU

- 6HK1 (on CAN) engine control system, catalyst cleaning process and exhaust gas aftertreatment system reset.

### ▶ DRESSTA

- QSG12 CM2350 Cummins engine control system, configuration of the engine temperature protection parameters, the engine brake parameters, etc.
- QSB4.5/6.7 CM2350 Cummins engine control system, configuration of the fan type, the inducement mode override switch parameters, etc.

### ▶ HYDREMA

- Equipment technical data and new engine types in M1500, M1600 and M1700 models.



- ▶ JCB
  - Equipment technical data and new engine types in JS Series, VM Series and X Series family models.
  - DieselMax 430 Stage V engine control system, advanced diagnostics functions, checks and maintenance services.
- ▶ KOHLER
  - New DCU exhaust gas aftertreatment system.
- ▶ KOMATSU
  - New ENG engine control system for monitor R in wheel loaders and dumpers.
  - New ENG engine control system for monitor C in excavators.
- ▶ LIEBHERR
  - New MCM central computer for R Series crawl excavators.
  - LIDEC 1 engine control system, maintenance to clear errors of the aftertreatment system and the System Display.
- ▶ MITSUBISHI
  - New EDC D04EG Tier IV engine control system.
- ▶ PERKINS
  - Extended diagnostics coverage for 404J and 904 J (on SAE J1939) engine control systems.
- ▶ PRINOTH
  - Equipment technical data and new engine types in Trooper Series and SW4S Series models.
- ▶ SANDVIK
  - C-13 (on SAE J1939) Cummins engine control system, the ignition system check of the exhaust gas aftertreatment system.
  - 904J (on SAE J1939) Perkins engine control system, configuration of the automatic stop system parameters and System Display.
- ▶ VOLVO CE
  - IC instrument cluster for excavators.
  - New CU climate control.
  - ACM exhaust gas aftertreatment system, aftertreatment fuel system check.
  - VECU machine control unit, check of the control joystick buttons, the switches and the pressure sensors.
  - CCU cab module for A Series (D) articulated hauler, check of the control unit connector signals and System Display.
- ▶ VM MOTORI
  - EDC R754/R756 Stage IV/Euro 6 engine control system, AdBlue/DEF actuations and checks of the SCR exhaust gas aftertreatment system.

Overall, extended diagnostics coverage for engine control systems. There are new innovations in the 403J PERKINS system in PIQUERSA brand, in the QSF 3.8 CM2350 CUMMINS system in RAVO brand and in the EDC R754/R756 VM system for Stage IV/Euro 6 engines in SCHMIDT brand. Furthermore, technical data in new engine types in brands such as ISUZU, JCB, KOHLER, LIEBHERR, PERKINS and VOLVO PENTA have been included.

***Thank you for being a loyal Bosch Customer.***

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