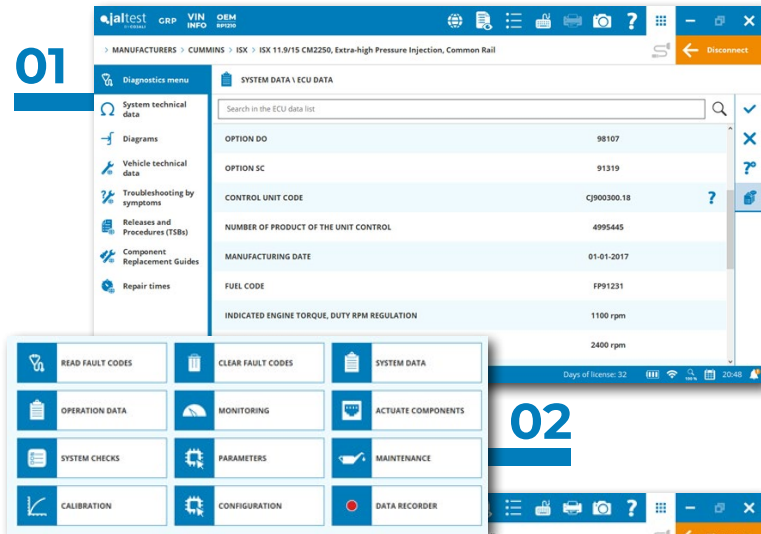


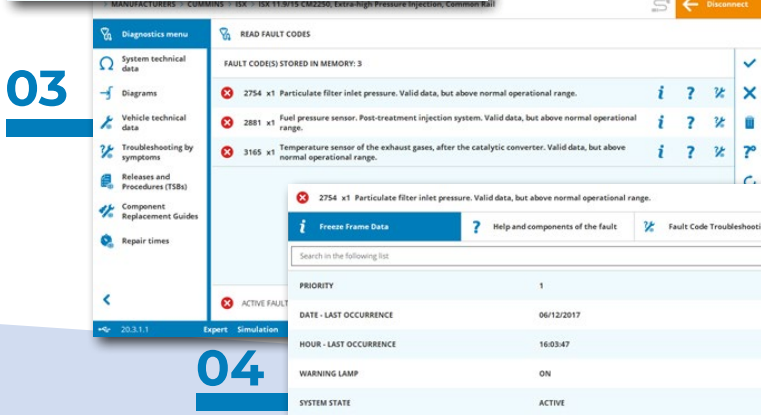
Fault-code troubleshooting with Jaltest

01



02

03



04

One of the most frequent faults in Cummins ISX engines fitted with exhaust aftertreatment systems is the fault code 2754 Pressure sensor in the emissions filter. Valid data, but above normal operational range.

Jaltest fault code troubleshooting guides provide freeze frame data (pic 4) and information about the component/s to be verified that may be damaged and that could have generated the fault code in the memory of the ECU (pic 5). In addition, they indicate the location (pic 7), the component connection and, of course, the technical specifications (pic 6).

These specify the range of permissible values for the component so the component that needs to be replaced can be easily verified.

In addition to all of this, the technical information offered by Jaltest includes wiring (pic 7) and operation diagrams, troubleshooting by symptoms (pic 8) and repair releases, plus procedures and verification procedures such as the information needed to perform a valve adjustment (pic 9). Owing to an excessive amount of soot in the DPF, the engine control unit (ECU) disables the possibility of launching a regeneration either manual or forced via a diagnostic tool.

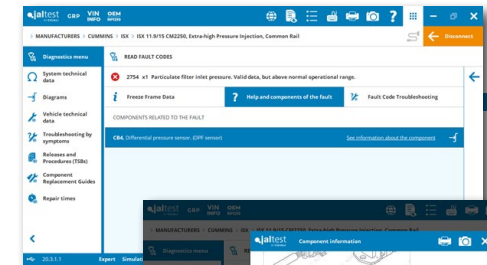
This is a situation where a diagnostic tool that is more than a mere fault code reader comes into its own because it allows technicians to solve these kinds of cases in a quick and precise way.

Jaltest multi brand diagnostic tool falls into this category and the company says it backs them up with a vast encyclopedia of technical information, giving technicians the information that they need at the right time to solve the problem.

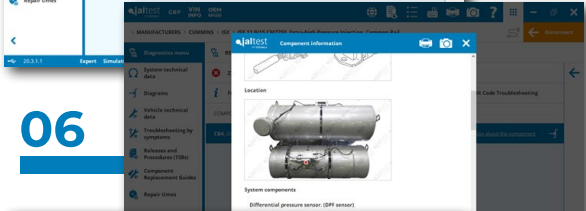
Jaltest says its fault code troubleshooting guides (pic 8) are a great example of this.

These specify, step by step, the actions that must be taken by the technician to isolate the cause of the fault and take the corresponding measures in the shortest possible time, helping them to avoid unnecessary costs and replacement of parts.

05



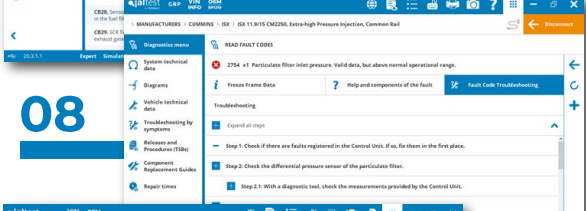
06



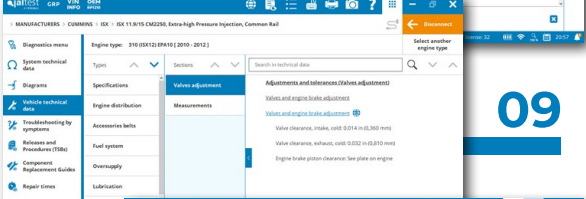
07



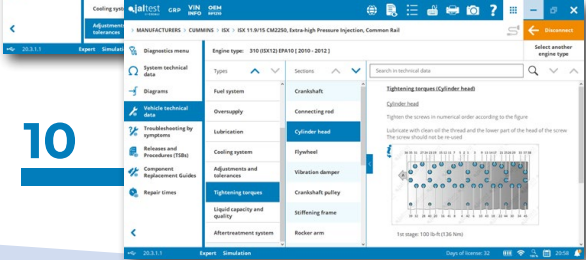
08



09



10



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jaltest
DIAGNOSTICS

CV COMMERCIAL



01

ialtest
BY COJALI

GRP

VIN
INFO

OEM
RP1210

> MANUFACTURERS > CUMMINS > ISX > ISX 11.9/15 CM2250, Extra-high Pressure Injection, Common Rail

Disconnect

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System technical data

Diagrams

Vehicle technical data

Troubleshooting by symptoms

Releases and Procedures (TSBs)

Component Replacement Guides

Repair times

SYSTEM DATA \ ECU DATA

OPTION DO	98107	✓
OPTION SC	91319	✗
CONTROL UNIT CODE	CJ900300.18	?
NUMBER OF PRODUCT OF THE UNIT CONTROL	4995445	
MANUFACTURING DATE	01-01-2017	
FUEL CODE	FP91231	
INDICATED ENGINE TORQUE, DUTY RPM REGULATION	1100 rpm	
DUTY RPM REGULATION	2400 rpm	

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100 %

02:34

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02

	READ FAULT CODES		CLEAR FAULT CODES		SYSTEM DATA
	OPERATION DATA		MONITORING		ACTUATE COMPONENTS
	SYSTEM CHECKS		PARAMETERS		MAINTENANCE
	CALIBRATION		CONFIGURATION		DATA RECORDER

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03

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READ FAULT CODES

FAULT CODE(S) STORED IN MEMORY: 3

	2754 x1	Particulate filter inlet pressure. Valid data, but above normal operational range.				
	2881 x1	Fuel pressure sensor. Post-treatment injection system. Valid data, but above normal operational range.				
	3165 x1	Temperature sensor of the exhaust gases, after the catalytic converter. Valid data, but above normal operational range.				

ACTIVE FAULT

NON-ACTIVE FAULT

OTHER FAULT STATES

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GRP
VIN INFO
OEM RP1210

MANUFACTURERS > CUMMINS > ISX > ISX 11.9/15 CM2250, Extra-high Pressure Injection, Common Rail

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READ FAULT CODES

2754 x1 Particulate filter inlet pressure. Valid data, but above normal operational range.

Freeze Frame Data
 Help and components of the fault
 Fault Code Troubleshooting

PRIORITY	1
DATE - LAST OCCURRENCE	06/12/2017
HOUR - LAST OCCURRENCE	16:03:47
WARNING LAMP	ON
SYSTEM STATE	ACTIVE

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READ FAULT CODES

2754 x1 Particulate filter inlet pressure. Valid data, but above normal operational range.

Freeze Frame Data

Help and components of the fault

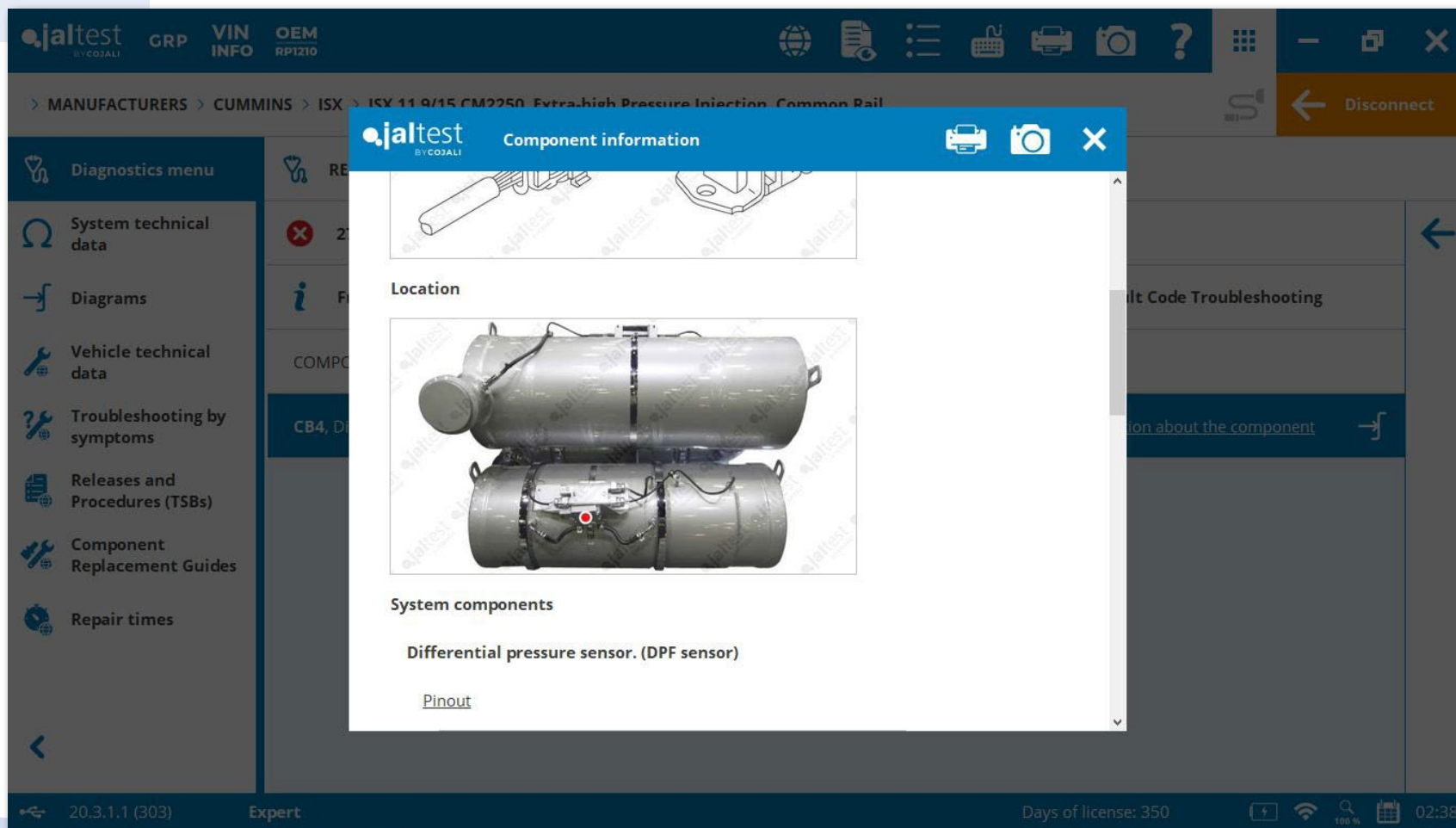
Fault Code Troubleshooting

COMPONENTS RELATED TO THE FAULT

CB4, Differential pressure sensor. (DPF sensor)
[See information about the component](#)

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Search in the component list

[Show full list](#)

CB23, Pressure sensor on the injection rail

CB24, Aftertreatment fuel pressure sensor

CB25, Differential pressure sensor.
Exhaust gas recirculation (EGR)

CB26, Exhaust gases pressure sensor

CB27, EGR feedback pressure sensor

CB28, Sensor for the indication of water in the fuel filter

CB29, SCR Temperature sensor of the exhaust gases after the catalytic converter

Hide components list

Select another configuration

 Disconnect

Select another configuration



4/6



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READ FAULT CODES

2754 x1 Particulate filter inlet pressure. Valid data, but above normal operational range.

Freeze Frame Data
Help and components of the fault
Fault Code Troubleshooting

Troubleshooting

Brunos Troubleshooting...
Brunos Troubleshooting...

Expand all steps

Step 1: Check if there are faults registered in the Control Unit. If so, fix them in the first place.

Step 2: Check the differential pressure sensor of the particulate filter.

Step 2.1: With a diagnostic tool, check the measurements provided by the Control Unit.

Step 3: Check Diesel smoke emissions

Show check marks in the procedure steps.

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Engine type: 310 (ISX12) EPA10 [2010 - 2012]

Types
Specifications
Engine distribution
Accessories belts
Fuel system
Oversupply
Lubrication
Cooling system
Adjustments and tolerances

Sections
Valves adjustment
Measurements

Search in technical data

Adjustments and tolerances (Valves adjustment)

[Valves and engine brake adjustment](#)

[Valves and engine brake adjustment](#)

Valve clearance, intake, cold: 0.014 in (0,360 mm)

Valve clearance, exhaust, cold: 0.032 in (0,810 mm)

Engine brake piston clearance: See plate on engine

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Engine type: 310 (ISX12) EPA10 [2010 - 2012]

Types

Sections

Search in technical data

Accessories belts

Fuel system

Oversupply

Lubrication

Cooling system

Adjustments and tolerances

Tightening torques

Liquid capacity and quality

Crankshaft

Connecting rod

Cylinder head

Flywheel

Vibration damper

Crankshaft pulley

Stiffening frame

Rocker arm

Tightening torques (Cylinder head)

Cylinder head

Tighten the screws in numerical order according to the figure

Lubricate with clean oil the thread and the lower part of the head of the screw
The screw should not be re-used

1st stage: 100 lb-ft (136 Nm)

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