

# INSITE 8.9.0 Features Notes

The latest INSITE information can be found on the website:

<https://www.cummins.com/support/digital-products-and-services-support>

For technical support, please either call 1-800-CUMMINS or send an email to

[servicetoolsupport@cummins.com](mailto:servicetoolsupport@cummins.com).

To locate the nearest distributor, visit this website:

<https://locator.cummins.com>

## Table of Contents

<b>1. General Information</b> .....	2
<b>1.1 Upgrade Capability</b> .....	2
<b>2. New Base Features</b> .....	2
<b>3. New Diagnostic Tests</b> .....	2
<b>3.2 Fuel Supply Capacity Test</b> .....	2
<b>3.3 Thermal Management System Manual Deaeration</b> .....	2
<b>3.4 High Pressure Common Rail Rapid Leak Test</b> .....	2
<b>4. New Advanced ECM Data</b> .....	2
<b>4.1 Charging Control Battery Pack Isolation Reset</b> .....	2
<b>4.3 Diesel Exhaust Fluid (DEF) Pump Filter Life Monitor</b> .....	3
<b>4.4 Fuel Filter Life Monitor</b> .....	3
<b>4.5 Oil Life Monitor</b> .....	3
<b>4.6 Turbocharger Life Monitor</b> .....	3
<b>4.7 Engine Protection High Temperature Coolant Pressure Differential High</b> .....	3
<b>5. New Features and Parameters</b> .....	3
<b>5.1 Starter Lockout Neutral Gear Check</b> .....	3
<b>5.2 Smart Fuel Economy</b> .....	3
<b>5.3 Vehicle Smart Accessories Management</b> .....	3
<b>5.4 Air Compressor Activated</b> .....	3
<b>5.5 Battery Inlet Coolant Temperature Sensor</b> .....	3
<b>5.6 Cabin Heater Outlet Temperature Sensor</b> .....	3
<b>5.7 High Voltage Battery System Monitor</b> .....	4
<b>5.8 High Voltage Interlock Loop Status</b> .....	4
<b>5.9 Datalink Engine Control</b> .....	4
<b>6. New Product Support</b> .....	4

# 1. General Information

## 1.1 Upgrade Capability

Upgrade from INSITE 8.7.x or 8.8.x

# 2. New Base Features

**NOTE:** No new Base Features have been implemented

# 3. New Diagnostic Tests

**NOTE:** These will only display if supported and enabled in the calibration

## 3.1 High Pressure Common Rail Fuel Pump Performance Test

Analyzes High Pressure Common Rail Fuel Pump when troubleshooting low fuel rail pressure and other performance issues

## 3.2 Fuel Supply Capacity Test

Determines if fuel system components are meeting flow demand of the high pressure fuel pump

## 3.3 Thermal Management System Manual Deaeration

Allows command of an electric vehicle's Thermal Management System (TMS) pumps at various speed to support the system deaeration process

## 3.4 High Pressure Common Rail Rapid Leak Test

Detects the presence of the abnormal flow conditions for high pressure common rail system

# 4. New Advanced ECM Data

**NOTE:** These will only display if supported and enabled in the calibration

## 4.1 Charging Control Battery Pack Isolation Reset

Allows performing battery pack isolation reset operation after battery isolation service repair has been completed

## 4.2 Aftertreatment Dosing Learn Reset

Provides the ability to reset the dosing learn parameters such as pump motor speed whenever the DEF pump or injector is replaced

### **4.3 Diesel Exhaust Fluid (DEF) Pump Filter Life Monitor**

Provides ability to monitor remaining life of DEF Pump Filter, configure monitoring modes and reset applicable log data when filter is replaced during a service event

### **4.4 Fuel Filter Life Monitor**

Provides ability to monitor remaining life of Fuel Filter, configure monitoring modes and reset applicable log data when filter is replaced during a service event

### **4.5 Oil Life Monitor**

Provides ability to monitor remaining life of oil, configure monitoring modes and reset applicable log data when oil is replaced during a service event

### **4.6 Turbocharger Life Monitor**

Provides ability to configure and monitor remaining life of Turbocharger as well as reset applicable log data when Turbocharger is replaced during a service event

### **4.7 Engine Protection High Temperature Coolant Pressure Differential High**

Provides record of the latest five engine derate and shutdown events when High Temperature Coolant Pressure is detected below operational threshold

## **5. New Features and Parameters**

**NOTE:** These will only display if supported and enabled in the calibration

### **5.1 Starter Lockout Neutral Gear Check**

Prevents the starter from being engaged if the engine has already been started

### **5.2 Smart Fuel Economy**

Allows automatic override to Performance mode when the accelerator pedal is kept full for a specific time or altitude is too high

### **5.3 Vehicle Smart Accessories Management**

Utilizes upcoming road terrain and predictive functionality to improve fuel economy through use of Smart Accessories such as the air governor and alternator

### **5.4 Air Compressor Activated**

Allows enabling the air compressor when equipped

### **5.5 Battery Inlet Coolant Temperature Sensor**

Provides ability to monitor Battery Inlet Coolant temperature and sensor voltage

### **5.6 Cabin Heater Outlet Temperature Sensor**

Provides ability to monitor Cabin Heater Outlet temperature and sensor voltage

## **5.7 High Voltage Battery System Monitor**

Provides ability to monitor temperature, voltage and current for the High Voltage Battery System

## **5.8 High Voltage Interlock Loop Status**

Provides ability to monitor whether the High Voltage Interlock Loop Status is open or closed

## **5.9 Datalink Engine Control**

Displays source address of the device that the ECM is currently allowing to control the engine as well as the acknowledged control mode, engine torque and speed.

# **6. New Product Support**

Komatsu NextGen HD13  
L9 CM2450 L164C  
L9 CM2450 L165C  
B6.7 CM2350 B198C  
B6.7 CM2450 B207C  
B6.7 CM2450 B208C  
B6.7 CM2450 B209C  
B6.7 CM2450 B210C  
L9 CM2350 L148C  
L9 CM2350 L151C  
L9 CM2450 L166C  
QSB4.5 CM2670 B201C  
Traction Inverter (PDD/Smart Device)