

Date: August 19, 2016

Caterpillar confidential: green

Subject: Caterpillar Common Rail (CCR), 1st generation / Future Strategy

Engine type: M32C CR (Common Rail)

Caterpillar Common Rail, 1st Generation Future Strategy

The Caterpillar Common Rail (CCR) of the 1st generation was successfully developed and delivered into the field where it has demonstrated its potential with regard to fuel consumption reduction, improved load acceptance and engine low load smoke behaviour.

However, Caterpillar noticed a low market acceptance leading to a very small Caterpillar CCR population in the field.

Assumed reasons for this low acceptance level:

- High system complexity
- Higher required skill level for system operation and maintenance
- Latest developments of conventional systems, incl. flex cam technology provide competitive performance at a lower complexity level compared to CCR of the 1st generation
- Higher Total Cost of Ownership.

To support the early adaptors Caterpillar is offering alternative technologies in exchange of the 1st generation of CCR technology. Please contact your local MaK Service Dealer for details.

We do anticipate that future generations of CCR will overcome these challenges and, with this, to provide substantial contribution to the overall product value.