



## IPD TECHNICAL BULLETIN

November 2016

IPDTB-0029

### **IPD Technical Bulletin:** **Caterpillar® C15 & 3406E Engines**

#### **Background: Innovation vs Modification**

Over the years IPD has developed a number of innovations to help address certain field issues that have occurred in various engines or applications, including as follows:

#### **3406E & C15**

For engines produced using 2-piece piston 1807352, some customers expressed an interest to upgrade with a 1-piece steel piston. As a result, IPD developed the following kits:

- ☒ **KIFSPC15/462/CS kit (select 3406E applications)**
- ☒ **KIFSPC15/02/CS kit (select C15 applications)**

The 1-piece pistons in these kits have the same 16.6:1 compression ratio as the original 1807352 piston, and require no additional alterations or modifications to the engine. Note that the piston pin is shorter in length than the original OE design pin to accommodate for the 1-piece piston design.

#### **C15 Acert**

IPD piston 3466615 was developed for industrial C15 Acert applications. Some customers requested that this piston be packaged with components applicable to on-highway truck applications. As a result, IPD developed the following kit:

- ☒ **KIF6615/12/CS kit**

As a precaution, this kit contains cylinder liner 1599778CSWS (.001" oversized ID) crevice seal liner (based on 1599778, which was introduced by the OE and IPD to help prevent piston scuffing in high load applications). Piston 3466615 is a 16:1 compression ratio piston that is not specified by the OE for on-highway usage (i.e., lower compression than the similar on-highway piston), and thus is not a direct replacement option for these applications.

#### **CAUTION**

IPD does not endorse the usage of these kits as higher performance "modifications". The extent of these modifications is an unknown, some may be identified by the engines' ECM, some not. Any modifications may affect other engine components, service life, emissions standards, and so on. Accordingly, tampering or altering an engine design via modifications that deviate from OE manufacturer operating specifications for the intended application is in violation of IPD's written warranty. As a result, IPD only offers these kits on a "No Warranty" basis.

**IPD | Torrance, CA 90501 USA | [www.ipdparts.com](http://www.ipdparts.com)**  
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