



IPD TECHNICAL BULLETIN

January 2017

IPDTB-0029

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

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. This bulletin is specific to the part numbers/applications provided below.

3406E & C15

For engines produced using 2-piece articulated piston 1807352, some customers expressed an interest to upgrade with a 1-piece steel piston. As a result, IPD developed special kits for selected 3406E and 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. As a precaution, this kit contains the #1599778CSWS (.001" oversized ID) crevice liner (the 1599778 cylinder liner was introduced by the OE and IPD years ago to help prevent piston scuffing in high load applications).

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 special kits for C15 engine applications. This kit also 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.

Part Number	Description	Application
KIF6615/12/CS	In-Frame Engine Overhaul Kit	C15 ACERT
KIFSPC15/462/CS	In-Frame Engine Overhaul Kit	select 3406E applications
KIFSPC15/02/CS	In-Frame Engine Overhaul Kit	select C15 applications
KOF6615/11/CS	Out-of-Frame Engine Overhaul Kit	C15 ACERT
KOFSPC15/461/CS	Out-of-Frame Engine Overhaul Kit	select 3406E applications
KOFSPC15/01/CS	Out-of-Frame Engine Overhaul Kit	select C15 applications

CAUTION

Since the release of these kits, it has come to IPD's attention that some may have been installed (or intended for installation) into engines that were modified to increase performance. IPD does not endorse the usage of these kits for higher performance "modification". 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.

Note: IPD does not recommend mixing different design pistons within an engine.

IPD | Torrance, CA 90501 USA | www.ipdparts.com | IPD is an ISO9001:2008 Certified Company

All information is believed accurate at time of printing, no guarantee is made by IPD, please consult your service and parts manual for detailed information.
All manufacturers' names, numbers, symbols and descriptions are for reference only. It is not implied that any part is the product of the manufacturer.
Caterpillar®, Cat®, Detroit®, Detroit Diesel®, Cummins®, Volvo®, Waukesha®, and ISO® are trademarks of their respective owners.