



## **IPD Products for Caterpillar® 3500 SERIES ENGINES**

The Standard for Quality, Innovation, Service and Support Since 1955

IPD has been producing high quality products for 3500 series engines since the early 1990's. IPD offers a complete range of products, including gallery-cooled pistons for diesel and natural gas applications, induction-hardened cylinder liners, heavy-duty copper alloy engine bearings, and quality valve train components. Our robust product line makes IPD a leader in providing the most complete range of products available in the aftermarket for these popular engines. Additionally, IPD carries a variety of miscellaneous internal bushings for rocker arms, accessory drive and oil pump bushings, and other parts and components as outlined below.

We also are aware of the many changes in specifications and metallurgies that are required between natural gas and other fuels, such as landfill and waste gas applications. Changes in valve and valve seat materials are critical to maintaining the risk free alternative that IPD can offer. At IPD, we only utilize the latest in materials and designs. IPD is in the process of expanding the availability of 3500 series engine parts, please check with IPD for any updates.



Items available from IPD for 3500 series engines vary between applications and serial ranges but will generally include products such as:

- Pistons (aluminum and IPDSteel™ one piece designs)
- Cylinder Kits (induction heat-treated liners, application-specific rings and ring sets, pins, retainers, liner o-rings)
- Engine Bearings (connecting rod, main, cam)
- Turbo Cartridges
- Valve Train (int/exh valves, seat inserts, guides, springs, bridges, locks, rotocoils)
- Gasket Sets (OEM style and IPD Style 1-2-3™ complete gasket sets)
- Pumps (oil and water pumps, related components)
- Misc. Hardware

# FEATURED PRODUCTS

Our product line for the 3500 series diesel and gas engines have many unique attributes that truly distinguishes us from our competition. Our patent pending one piece steel piston, valve train and gasket sets program play an important role in our product offering, and showcase IPD's commitment to innovation and quality. The following section will discuss in further detail some of the distinct IPD product customization, value and quality.

IPD is proud to feature our one piece steel piston, which utilizes our IPDSteel™ patent pending technology for our 3500 series product line. Each piston is manufactured from the high strength alloy and heat treated steel casting process which has been extensively tested and successfully proven in the 3500 series applications.

These one piece steel pistons also showcase another way that IPD truly sets the bar for innovation. In comparison to most aftermarket companies, who solely reengineer products from the originating company, IPD stands apart. In partnering with our customers worldwide, IPD has enhanced upon the original design in efforts to create a better product.

The IPDSteel™ one piece piston features new design enhancements made possible by IPD's patent pending one piece oil gallery retention plate. In order to prevent the piston from experiencing extreme thermal loading as seen in other products in the market place, this innovative one piece design limits plate movement and secures the oil gallery retention plate firmly in place as seen in example below.



**IPD ONE PIECE DAM PLATE**



**TRADITIONAL TWO PIECE DAM PLATE**



# IPD ENGINE MODEL SUMMARY

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## CATERPILLAR®

D3508 / D3512 / D3516 / D3524  
G3508 / G3512 / G3516 / G3520  
D3406 / D3408 / D3412  
D3406E / D3408E / D3412E  
G3406 / G3408 / G3412  
D3304 / D3306 / D333  
G3304 / G3306 / G333  
3204 / 3208  
G3600

3114 / 3116 / 3126  
3064 / 3066  
D379 / D398 / D399  
G379 / G398 / G399  
D353 / G353  
D339 / D342 / G342  
D343 / D346 / D348  
C7, C9, C10/3176C,  
C12/3196, C13,  
C15 / C15 Acert,  
C27, C32

## DETROIT DIESEL®

60 Series

## CUMMINS®

ISX / QSX

## WAUKESHA®

7042/7044