



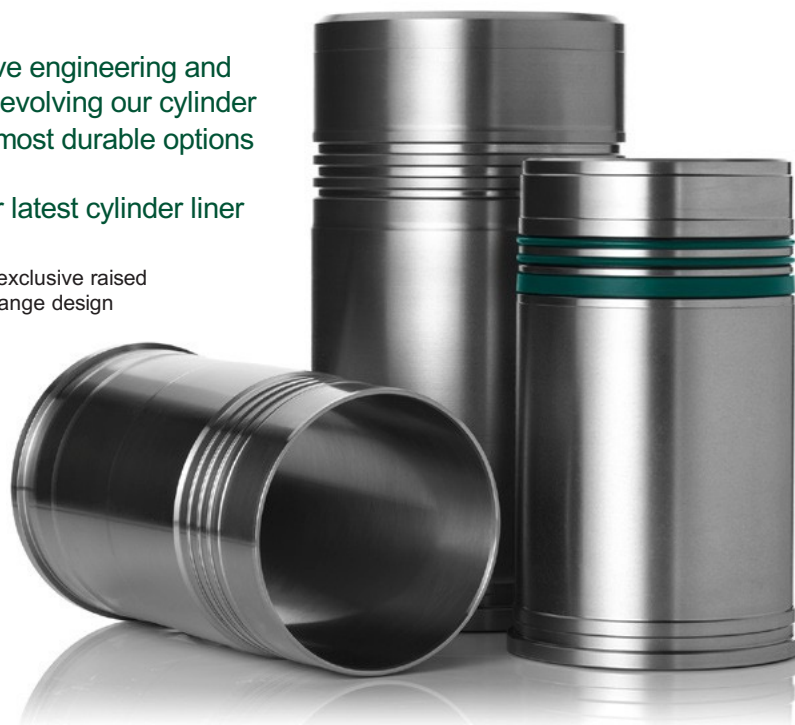
UNDERSTANDING THE BENEFITS TO IPD'S LATEST INNOVATION: THE RAISED EDGE LINER FOR CATERPILLAR® 3400 AND C15 SERIES (5.4") BORE ENGINES

IPD strives to be the leader in innovative engineering and design. Since 1955, we are constantly evolving our cylinder liner designs to provide the strongest, most durable options for your Caterpillar engines.

IPD is excited to be the first to offer our latest cylinder liner option: **The Raised Edge Liner.**



IPD's exclusive raised edge flange design



Cylinder liner innovations and options for the Caterpillar 3400 and C15 series (5.4") engines

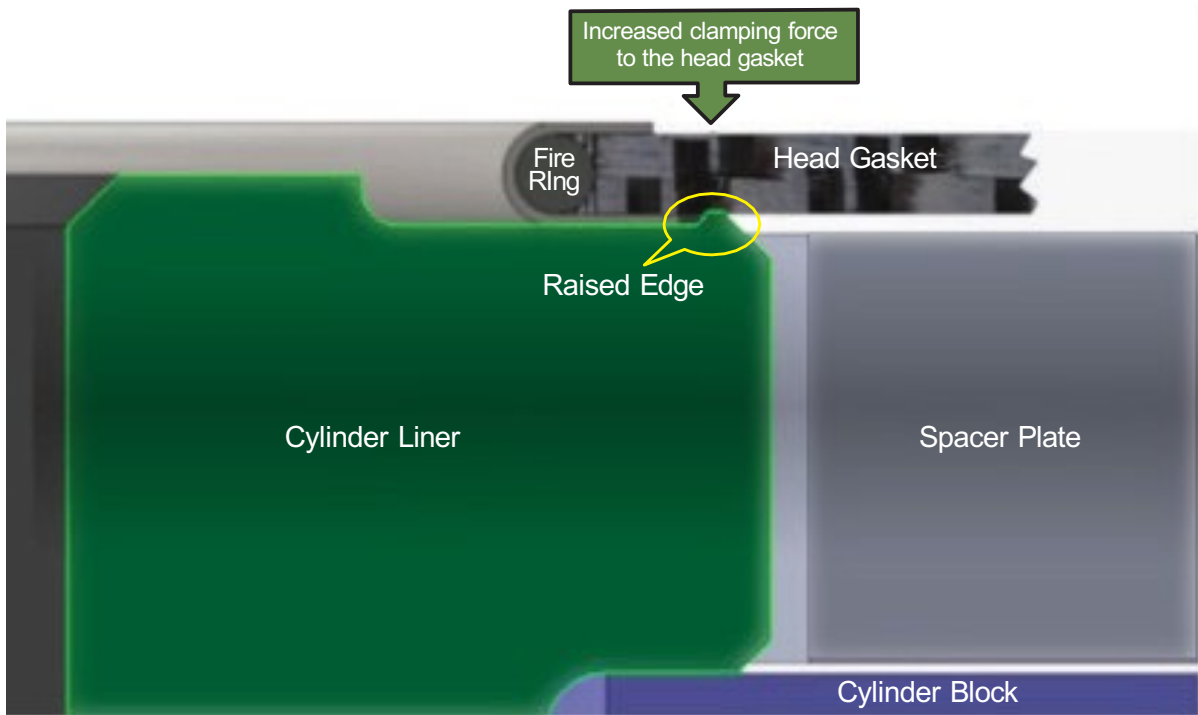
1979322 Liner —The standard profile liner used in these 5.4" bore engines. There have been many part number updates over the years, but the bore size and flange profile have remained the same.

1979322CSWS Liner Kit — Over 25 years ago IPD introduced the crevice seal design liner. For your convenience and to eliminate confusion this is only sold as the 1979322CSWS. The "WS" stands for "with seals". The wide crevice seal holds the liner more firmly in place and reduces cavitation. This liner has the same bore and flange design as the standard 1979322 liner.

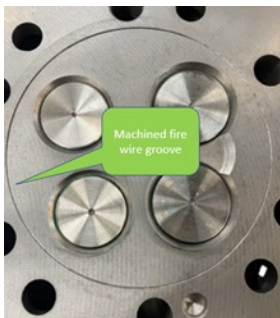
1979322CSSPWS Raised Edge Liner Kit: This is a standard bore liner with IPD's exclusive raised edge flange design. This newly released liner can be upgraded to any "CS" engine kit **at no additional cost.**

Note: The above liners can be used in sets or mixed in any 3400 & C15 engine.

INNOVATIONS, QUALITY AND RELIABILITY.... THAT'S THE IPD DIFFERENCE.



Diameter of raised edge is 6.416"



The raised edge liner “SP” design features a small “raised edge” or ridge on the outer top surface of the liner flange. The edge embeds into the graphite material of the head gasket. This additional clamping force secures the gasket more firmly in place and provides greater support to the fire ring assembly of the gasket. It's important to follow the latest OE installation instructions by using the protective washers to ensure the flange is not damaged when checking the liner projection (protrusion). The raised edge liner is not recommended for use with cylinder head that have custom modifications.

Cylinder Head Modifications: IPD cautions the use of our raised edge liner in conjunction with modified cylinder heads. One of the more common modifications shops are doing to the cylinder head is cutting a receiving groove in the surface of the head for a secondary fire wire. There are no consistent specs for the diameter or depth of the grooves the machine shops are making into the head, so it's unknown if these modifications will conflict with the raised edges of our liners.



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