Seal Identification

What is a Seal?

A seal is a device which prevents the escape or passage of a fluid (liquid or gas). A hydraulic cylinder seal is used to seal two surfaces under fluctuating pressure conditions.

Hydraulic Cylinders:

The hydraulic cylinder is the tool which converts hydraulic fluid pressure into work. Even though there are many different designs of hydraulic cylinders, they are relatively similar in the way they are sealed and repaired. Because of this similarity, this guidebook will not address different types of designs. It will suffice to mention that Caterpillar manufactures three different designs: bolt-on head, threaded crown and threaded gland cylinders.

Hydraulic Cylinder Seals:

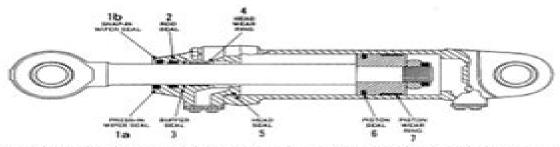
Caterpillar seals are available as either individual pieces or kits. Kits offer a convenience as well as a cost-savings, priced substantially below the sum of the individual pieces.

Caterpillar hydraulic seals can be used on other makes of cylinders. Cat also offers some of the most popular seal configurations and sizes designed solely for other makes of hydraulic cylinders."

*Note: Check for availability in your subsidiary.

Identifying Hydraulic Cylinder Seals

Refer to the hydraulic cylinder illustration below. The seals in this Caterpillar cylinder are those typically found in hydraulic cylinders.



Use the seal pictures, cross-sections, cutaway illustrations and descriptions on the following pages to help you identify the different types of hydraulic cylinder seals.

Hydraulic Cylinder And Seal Reference Guide Caterpillar

Tobias Bleicker

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