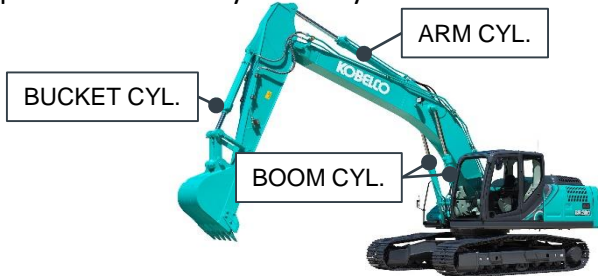


CYLINDER SEAL

● What is the background?

Hydraulic cylinders for attachments (Boom, Arm & Bucket) have “internal and external” seals that wear through daily operations.

KOBELCO recommends replacing the seals periodically otherwise damaged seals can cause not only cylinder failure, but also hydraulic oil contamination. This contributes to more serious problems to the hydraulic system.



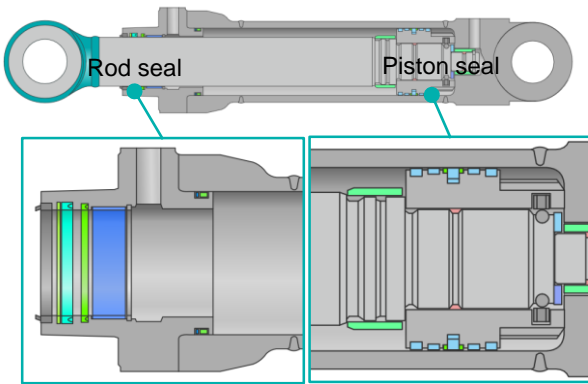
● What can happen?

Damaged seals can cause internal & external oil leakage by scratches and galling etc. Internal leakage loses cylinder speed & power in operation and allows the attachment to lower automatically during parking.



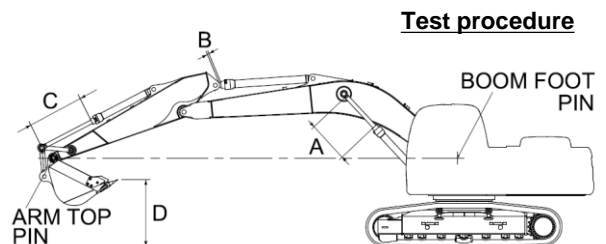
● What are cylinder seals?

Cylinder seals consist of rod seals and piston seals. Rod seals wipe the rod surface and prevent contamination from outside. Piston seals keep the pressure inside the cylinder.



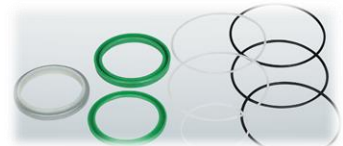
● How to inspect?

- 1) External – visually inspect rods for scratches, pitting, abnormalities.
- 2) Internal - Confirm oil leakage visually and cylinder oil seal tightness by checking the moving length for 5 min in parking. Contact your local dealer for the cylinder drift values.



● What if your machine has leakage?

Cylinder seals are required to be replaced once damaged. Seal kits are available for each cylinder. Contact KOBELCO dealer for further information.



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