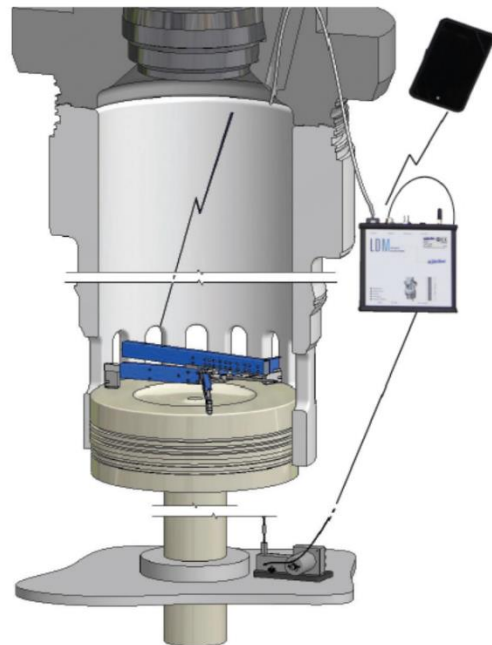


# Liner Diameter Measurement

CHRIS-MARINE®  
**LDM**

- Avoid unplanned off-hire and reduce overhauling costs through continual monitoring of the cylinder condition.
- Pre-inspect cylinder condition before a piston overhaul to minimize downtime and cost.
- Safe, fast, and accurate measuring of cylinder liner wear and clover-leafing.
- No need to remove cylinder cover prior to measurement



### Detect abnormal cylinder deformation and wear before it leads to failure

The image shows two clover-leafing measurements at 79 mm and 298 mm below top rig TDC. Some clover shape can be seen at 79 mm with peaks about 0.10 mm higher than the valleys.

Such a wear pattern will generate blow-by and eventually collapsed or broken piston rings when the piston ring pack cannot seal tightly against the cylinder liner.

Cylinder honing can restore the cylinder condition.

