### Debond rubber seal from steel oil seal ring

**Objective**
Debond a fluorocarbon rubber seal from a carbon steel oil seal

**Material**
4" (10.2cm) OD carbon steel oil seal with a fluorocarbon rubber seal

**Temperature**
1200 °F (649 °C)

**Frequency**
179 kHz

**Equipment**
- Ambrell 2.0 kW induction heating system, equipped with a remote workhead containing two 0.66µF capacitors for a total of 1.32µF
- An induction heating coil designed and developed specifically for this application.

**Process**
A two turn helical coil is used to heat the steel oil seal. The seal is placed in the coil and heated for 8 seconds. Once the seal had cooled the rubber seal is easily peeled from the steel in one piece.

**Results/Benefits**
Induction heating provides:
- Highly accurate placement of heat, no effect to surrounding components
- Faster and more efficient
- Even distribution of heating
Steel oil seal with rubber seal