Laeis press – repair and machining of the outer surfaces of the Ø 1200 piston

ID: 9437

Industry:	*Mining & Quarrying*	Customer Location:	*Lubenik*
Application:	*ENC-Engines and Casings*	Application Date:	*August 2016*
Substrate:	*Carbon steel*		
Products:	*Belzona 1311 (Ceramic R-Metal)*		

Problem

The outer surface of the piston was damaged by grooving. Grooves were created during the operation of the device by unintentional ingress of the product into the inner space of the cylinder.

Damaged cylinder surface.

Centering of the piston in the machining device, turning the surface around the entire circumference to a depth of 1.6 mm.

Application of BELZONA 1311

Final grinding and polishing of the surface to the nominal dimension and surface roughness

Application Situation

BELZONA 1311 is characterized by high resistance to mechanical damage and abrasion, high compressive strength and hardness. This product is ideal for repairing scratched areas.

Application Method

Centering of the piston in the machining device, turning the surface around the entire circumference to a depth of 1.6 mm. Abrasive blasting of the machined surface to a roughness of 75 µm. Application of BELZONA 1311 sealant in the required thickness (approx. 2-3 mm) with a machining allowance. Turning of the part with the addition of grinding, repair of any air bubbles. Final grinding and polishing of the surface to the nominal dimension and surface roughness.

Belzona Facts

The customer needed the repair done quickly and with high quality.

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