



# Slinden Services Ltd

Cast Iron Welding & Metal Stitching Repairs

## 1916 Allan Hot Bulb Engine



We received an enquiry for the repair of a 1916 Allan hot bulb horizontal oil engine cylinder which was welded by its previous owner. Sadly, the welds (varying from 6mm to 10mm) were cracking at the edges due to the hardening of the cast iron during welding.

*"This is the smallest model of the Allan engine which was made in Aberdeen and is pretty rare, so I am cautious to make sure that this time the repairs are correctly done!"*



We undertook repairs to the old welded areas by way of grinding out all the old welds before using our Lloyd's approved fusion welding procedures - also putting a layer of weld all the way around the liner contact area on the cylinder skirt contact face.

After grinding and crack testing, we machined the liner landing skirt area back to the nominal o/d and re-drilled and tapped the threaded hole, then bead blasted and primed, ready for collection.

Looking at the history of the engine, it had been used in the past as an antique generating plant, and as a prop in a period TV drama of the 1980's!

*"Many thanks again. I am really pleased that you guys were able to carry out this work for me and also the professional way that I have been treated throughout the process from the enquiry stage with David at the beginning of the year, through until*

*now with me asking to smooth the castings down a little. Well done...!! 😊"*

For any Emergency Industrial Repairs, please contact us for an initial survey/quotation.

- Initial Survey/Quotation
- Lloyds fusion welding procedures
- Full Crack Detection
- Casting of Parts if Required
- 24 Hour Emergency Service
- All Work Guaranteed

*Breathing new life into  
damaged cast iron components*

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