

CAT Suspension Strut overhaul

Winnellie Hydraulics save customer time and money by completing CAT 785 front strut repair ahead of schedule and under budget



Condition upon arrival



Condition on dispatch after refurbishment

Key Points

- CAT 785B Front Suspension Strut Overhaul
- 3-week reduction in overhaul turnaround
- 25% cost saving on previous overhaul



Our mining client required a full overhaul of their CAT 785B front strut following a premature failure of the component.

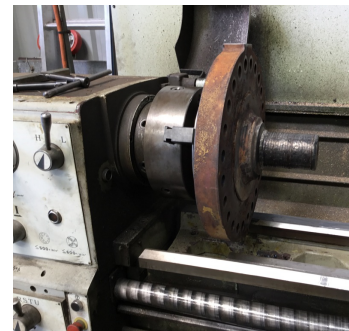
Our workshop techs performed a full strip and inspection and provided a detailed report outlining the repair work required and once accepted by our client, began the repair immediately.



Condition of Trunnion mount on arrival:



Condition of end cap and trunnion mount after pre-weld machining



End cap and Trunnion mount, after weld, ready for final machining



Condition of end cap and trunnion mount post final machining

Due to the pitting and wear on the end cap trunnion, our machine shop utilised our welding rotator and 'built up' the component before machining to manufacturer specifications. We also polished the housing to remove all dirt and rust.

Once completed, our Workshop Technicians performed the seal kit changeout, reassembly and test of the strut assembly before painting and delivering back to site.

We understood the time criticality and urgency to get the 785B back into service. Our client appreciated the 3-week reduction in turnaround time as well as the 25% cost saving on the previous front strut repair.

Further to the component rebuild, we can also offer specialised tool kits to assist in the removal and replacement of the strut itself as well as the disassembly and reassembly of the ball strut and steering linkages, which can be a difficult and time-consuming task.

About us:

Winnellie Hydraulics is a second generation business with nearly 40 years experience servicing North Australia. Working with all the major mine sites across Northern Territory we have a wealth of experience across a wide range of applications including mobile and fixed plant equipment.

We grew up servicing the NT mining industry, its in our DNA. We have forged long lasting relationships over the years so much so that we have built our reputation for being the company you can rely on.

Please feel to contact us as we'd love to help:

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Want to know more?

Weld overlay process

Weld Overlay (WOL), also known as cladding, hardfacing, weld cladding, or weld overlay cladding, is the process adding one or more metals via welding to a metal surface. It has many uses including:

It can be used to repair worn surfaces.

Typically, the material is built up oversize, the part is then machined back to its "as new" dimensions. The process provides a cost effective, efficient solution to part replacement in some major overhauls

Adding a corrosion resistant Stainless-steel overlay.

Many applications require both high strength and corrosion resistance for long term performance and reliability. Weld Overlay is an ideal way of combining corrosion resistance and mechanical strength. As a result, the use of this technique is recommended for equipment used in process and offshore industries.

Hardfacing overlay. Hardfacing is adding of thick coatings of hard, wear-resistant materials on a worn or new component surface that is subject to wear in service

Benefits to overlaying a can include:

- Good abrasion resistance
- Good impact resistance
- Extended wear resistance
- Resistance to cold deformation
- Cost-effective repair versus new
- Corrosion resistance at high temperatures

Got a problem? Call us today and ask if we can help.