

CASE STUDY

# 320 Ton Haul Truck Rear Axle Housings

**Our Industrial Repair Services team strives to exceed customer expectations by using our corporate Core Values as our guiding principles:**

- 1 **QUALITY** in our team members services and facilities.
- 2 **INNOVATION** in our approach to customer repairs and upgrades.
- 3 **COMMITMENT** by our team to excellent service and customer satisfaction.
- 4 **CUSTOMER FOCUS** in everything we do.

## Component & Issue

- The rear axle housing of the haul truck was failing while under load and operating in soft ground conditions
- The existing approach for repair could not meet the customer's requirements for delivery and workmanship quality

## Inspection Findings & Proposal

- The Brandt team went on-site to review the failure mode and discuss possible solutions to address repair quality and increase reliability
- Brandt presented a repair proposal, including design upgrades to address the material deformation and failure that was occurring

- Thermal Cycling was introduced into the repair process to ensure appropriate grain structure and dimensional stability of the housing

## Deliverables

- ✓ **Total Cost of Ownership**  
Repairs and upgrades were completed for 40% of the replacement cost
- ✓ **Quality**  
Brandt refurbished the Axle Housing to OEM specifications, and significantly improved the body strength to address flange and body failures
- ✓ **Reliability**  
The design enhancement resulted in reduced unplanned downtime



Whatever your industry, Brandt delivers unmatched end-to-end solutions, refurbishing components and equipment to OEM specifications or better. And, with 24/7/365 technical support, we'll always be there to help ensure your success, day or night.

**It's what we do. We build confidence.**

