

MPS Low-Speed Shaft Cover

Purpose

This bulletin advises customers of the potential problem associated with MPS pulverizer gear-reducer low-speed shaft cover corrosion, resulting from pulverizer operation and maintenance.

Problem

Coal dust and water often collect in the pulverizer yoke cavity on top of the gearbox low-speed shaft cover (Figure 1). If this material is allowed to accumulate in the yoke cavity, sulfur and other constituents in the coal can cause this residue to become acidic and corrode through the shaft cover. The resulting holes in the shaft cover allow the coal and water to enter the gearbox, contaminating the oil and causing accelerated gearbox wear.

Recommendations

The yoke cavity and shaft cover should be periodically inspected and cleaned every 3000 hours. If

the cover is severely corroded and requires replacement, an alternative is replacing the existing cover material with 304 stainless steel (at least 1/4 inch thick). The upgraded stainless cover should then reduce the cleaning and inspection requirements to two-year intervals.

During reassembly, use a silicon sealant on the mating faces of the cover prior to welding. For added corrosion protection, apply sealant to the welds to seal any weld pores.

Support

If any questions arise or if assistance is required, contact Babcock & Wilcox Field Service Engineering.

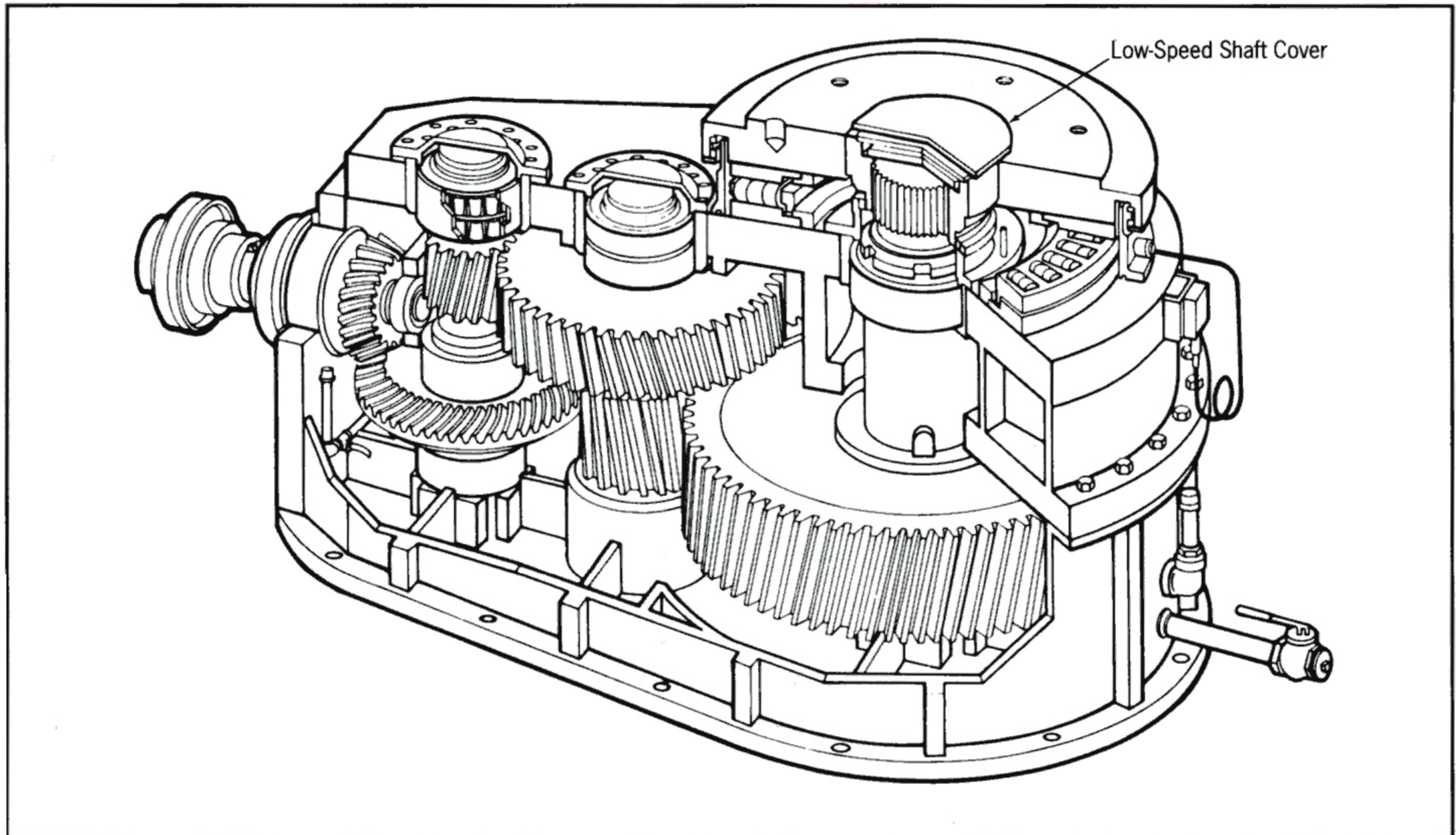


Figure 1 Location of the low-speed shaft cover in the MPS gearbox.

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