

Fan manufacturer adds competitive advantage with Cooper bearings

The Problem

The original sleeve (hydrodynamic) bearings in the radial fans in a deep coal mine were leaking oil and, partly owing to the abrasive environment, failing to achieve their specified lifetimes.

The manufacturer of the fans asked Cooper Bearings to propose an alternative package which would offer longer bearing lifetimes and remove the many maintenance problems associated with a complicated oil lubrication system.

The Solution

Cooper experts recommended the following combination of bearings, both of which are grease lubricated:

01BCP200M EX and 02E/03BCP200M GR.

Benefits

The complex oil feed and cooling systems were no longer needed, eliminating oil leakage at a stroke and delivering:

- A cleaner and safer work environment
- Elimination of costs associated with continuous lubrication (oil and maintenance)
- A significant energy saving at start-up (sleeve bearings need to establish an oil film between bearing and shaft, something which is not necessary with roller bearings)
- Elimination of the risk of bearing seizure that can occur when a continuous lubrication system fails

Thanks to the superior sealing of the Cooper bearings, they are showing no signs of wear, despite having already outlasted the sleeve bearing operating life.

Both end-user and fan manufacturer are delighted with the Cooper solution. The latter now offers Cooper as OE on a range of radial and axial fans because of the competitive advantage that arises from the cost savings and improved ease of maintenance delivered to customers.



Sleeve bearings needed all the complexity of continuous lubrication...



...while the new Cooper split-to-the shaft solution offers simplicity and ease of maintenance

Cooper- now even better for fan and blower applications

Cooper split-to-the-shaft roller bearings are the ideal solution for industrial fans where ease of maintenance and reduction of downtime are crucial. The recent addition of split taper roller bearings to the Cooper range means that high-thrust load applications can now also benefit.

For more information, contact us via our website www.cooperbearings.com

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