

Fan manufacturer adds competitive advantage with SKF Cooper bearings



The problem

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

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

The solution

SKF 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 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 not necessary with roller bearings)
- Reduction of the risk of bearing seizure that can occur when a continuous lubrication system fails

Thanks to the superior sealing of SKF Cooper bearings, the fans 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 solution. The latter now offers SKF 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.



The original sleeve bearings needed all the complexity of continuous lubrication...



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

SKF Cooper – now even better for fan and blower applications

SKF 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 SKF Cooper range means that high-thrust load applications can now also benefit. For more information, visit our website www.cooperbearings.com

cooperbearings.com

© SKF and Cooper are registered trademarks of the SKF Group.

© SKF Group 2018

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB BU/P2 17607 EN · January 2018