

September 2010

CONTACT INFORMATION

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TECHNOS HOT TIP #25

Bearing Oil

Oil is generally used for rolling bearing lubrication only when high speeds or high operating temperatures preclude the use of grease. The three main methods of oil lubrication are static oil bath, circulating oil, and oil mist. Oil bath lubrication distributes oil using the rotating components of the bearing. The circulating oil method is used at higher speeds and temperatures and is circulated using an oil pump. With the oil mist method, very small amounts of oil are directed at the bearing with compressed air.



Technos Works with a Wide Range of Industries

Technos manufactures and repairs equipment for many different industries; Power, Steel, Cement, Pulp and Paper, Sugar, Sand, Lime, Chemical, Glass, Aluminum, Wood Products, and many others. Most industries use fans in their manufacturing processes and Technos is ready and able to provide assistance when new fan components are required or repairs to existing equipment are needed. Do you recognize your facility in these photos?



ENGINEERING SUPPORT

Our Engineering Department has the expertise to perform the most thorough analysis using cutting-edge computer technology.

- Natural Frequency Testing
- Finite Element Analysis (FEA)
- Shaft Critical Prediction
- Wear Control Improvements
- Metallurgical Analysis

FIELD SERVICE DEPARTMENT

- Emergency Repairs
- Laser Alignment
- Field Balancing
- Wheel Replacement
- Bearing Repairs
- Epoxy Grouting
- Liner Installation

PRODUCTS AVAILABLE

- Complete Custom Fan Assemblies
- Chrome Carbide Liners
- Dampers
- Expansion Joints
- OEM Projects
- Fan Housings
- Spare Wheels
- Screw Conveyors
- Coal Hoppers
- Shaft Seals
- Separators
- Shafts
- Classifiers
- Ducting

GENERAL MACHINERY VIBRATION SEVERITY CHART

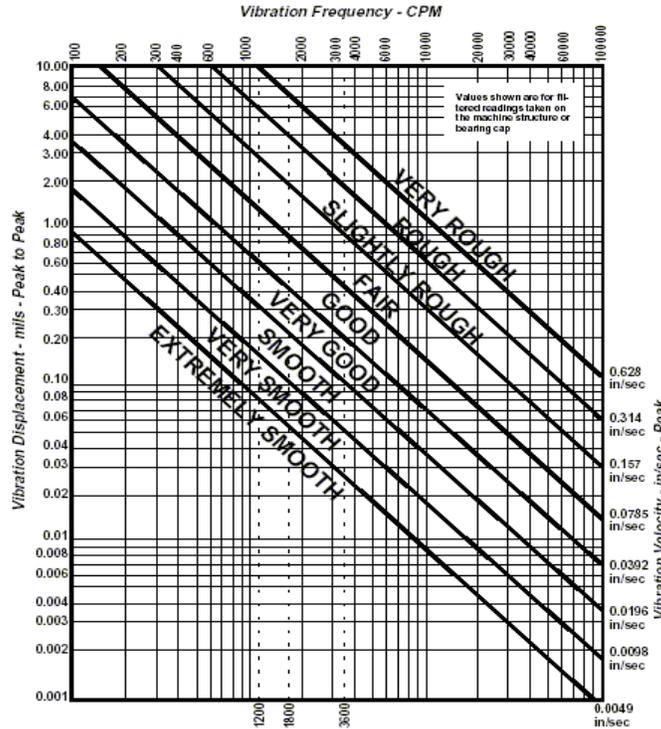


Figure 3

Fan Equipment Vibration

Technos personnel are trained and equipped to measure vibration using state-of-the-art equipment. Analyzing the data and recommending actions to reduce the vibration is our specialty. Typical sources of vibration include unbalance, mechanical looseness, bent shaft, turbulence, misalignment, and bearing damage. With a detailed vibration analysis, maintenance personnel can minimize unplanned downtime by scheduling needed repairs during normal maintenance shutdowns.

Contact Technos today with any machinery vibration questions that you have.

Technos Corporation Capabilities

In Texas, Technos Corporation Fan Services is located on 10 acres five miles northeast of San Antonio with two large state-of-the-art facilities fully equipped with multiple welding machines, CNC cutting machine, positioners, lathes, press brake, mills, and precision balancing equipment. Our Technos facility in Alabama is located in Bessemer and is equipped to handle your fan manufacturing and repair needs as well.

Technos Corporation Fan Services has the expertise to design, fabricate, and install all types of industrial fans; including wheels, shafts, housings, dampers, expansion joints, and wear-resistant liners specifically designed for your requirements.

Technos Corporation Fan Services field crews are full-time employees certified and trained in all phases of fan repairs and safe installation. We respond to your emergencies and work safely to complete the job. Technos Corporation Fan Services never uses any temporary laborers.

Technos Corporation Fan Services offers the most competitive in-shop and field service rates in this business and we are ready to fulfill all of your industrial fan needs at a moment's notice.



From the **TECHNOS** tailgate: *Brisket Rub*

Ingredients: 4 Tblsp paprika, 1 Tblsp chili powder, 2 Tblsp ground cumin, 2 Tblsp salt, 1 Tblsp dried oregano, 1 Tblsp sugar, 2 Tblsp black pepper, 2 teaspoons cayenne. Mix ingredients in bowl. Rub can be stored in airtight container for several weeks. Rub on both sides of brisket and press into the meat. Cover meat tightly with saran wrap and leave in refrigerator for 2 days. The brisket is now ready to cook your favorite way.