

B&B BENCHMARK

B&B ELECTRIC MOTOR CO. WICHITA, KS

WHAT'S NEW AT B&B



THE POWERMATE IS HERE

Have you ever struggled to install a large piece of equipment?

Have you ever tried to transport a large motor up several flights of stairs in a narrow stair well?

How about just getting a heavy object on and off your truck?

These issues can consume a great deal of time and man power and can present real safety issues.

Our solution:
THE POWERMATE

CONTINUES ON PAGE 2

WHO'S WHO AT B&B

"In the spotlight" this issue is our shop foreman **Garry Norman**. Garry applied to B&B Electric Motor Co. for his very first job in 1973 and has been here ever since. Garry helps to make up the "backbone" of B&B Electric Motor Co.. With over 31 years of experience, in all forms of electrical apparatus repair; he is one of the most knowledgeable men in the industry today. His skills include the repair of gear boxes, pumps, blower assemblies, generators, A.C. and D.C. motors. Garry is key in our efforts to meet the ever growing needs of our customers. He is available when your equipment is too large to remove and bring in for repair, or when onsite balancing is required.



Garry is married with two teenage sons at home. He enjoys spending time with his family out doors camping and fishing. Very active in their church; Garry, Debbie and the boys attend church camp every summer; as well as Garry being a Deacon in the church.

Garry is married with two teenage sons at home. He enjoys spending time with his family out doors camping and fishing. Very active in their church; Garry, Debbie and the boys attend church camp every summer; as well as Garry being a Deacon in the church.



TECHNICIAN'S CORNER

PROPER LUBRICATION OF ELECTRIC MOTOR BEARINGS

Proper lubrication of electric motor bearings and other machinery is very important to help eliminate down time of equipment and costly repairs. If too much grease

is applied, it is eventually forced out of the bearing housings and on to the windings of the motor, causing over heating of the windings, resulting in premature winding failure. Over lubrication can also reduce the bearing life, and reduce motor efficiency. Many motors today have no means for lubrication. The motors have lubricant placed in the end bells when manufactured which is good for three to five years before needing to be serviced. In many cases the cost of making repairs and replacing bearings is too costly, and the motor is replaced. Under severe applications the bearings will not last as long. Larger horsepower motors usually have grease passages provided. It is important to use grease that is compatible with the grease in the bearings. It is also important to use medium temperature grease. Many motors are greased with a high

reduce the bearing life, and reduce motor efficiency. Many motors today have no means for lubrication. The motors have lubricant placed in the end bells when manufactured which is good for three to five years before needing to be serviced. In many cases the cost of making repairs and replacing bearings is too costly, and the motor is replaced. Under severe applications the bearings will not last as long. Larger horsepower motors usually have grease passages provided. It is important to use grease that is compatible with the grease in the bearings. It is also important to use medium temperature grease. Many motors are greased with a high

CONTINUED ON PAGE TWO

The **PowerMate** is designed to make large/heavy loads manageable for one man. It allows one man to transport a very heavy object up and down stairs and on and off trucks.

Available to rent, the **PowerMate** will come with a trained technician to operate the unit. The first hour (or any part of an hour) charge is \$116.00. There after, each additional hour is \$76.00 which can be billed in 15 minute increments.

To transport an object up a flight of stairs, the unit is maneuvered backwards to the first step. Then using a "heel/toe" motion, the **PowerMate** moves the load up a stair at a time. Similarly, the unit is positioned at the top of the stairs and is then lowered down one stair at a time using the same "heel/toe" motion.

With it's stair climbing action and 4 wheel dolly ability the **PowerMate**, when operated by a trained technician, can handle most of your portable lift needs up to 1500 pounds. Just contact our office at (316) 267-1238 and ask about the **POWERMATE** today.



temperature grease which does not weep oil from the thickener soon enough to keep from having bearing failure. Most bearing manufacturers use a polyurea-based grease when the bearings are manufactured. The only lubricants that are compatible are the other polyurea lubricants and calcium complex based lubricants. When a lubricant consisting of aluminum complex, barium, clay, lithium, or calcium are

introduced in the bearing housing, the greases become incompatible, and cause a breakdown of the thickener; the lubricant becomes runny and you have premature bearing failure. At B & B Electric we use a polyurea-based grease that is the same lubricant used by the bearing manufactures. We use Chevron SRI 2 grease, which can be obtained from our inventory or can be bought from a local oil and lubricant supplier. We fill the cavity of the bearing housing approximately 2/3 full of fresh Chevron grease before returning the motor to our customer. If you are going to use a special lubricant for a special application it is important to thoroughly clean the existing grease from the new bearing and replace

the grease with the lubricant for the special application. If you do not have a recommended lubrication procedure for lubricating your motors, a chart has been provided with the recommended intervals for lubrication of motors of different applications, frame sizes, and rpm's. When lubricating an electric motor, clean the grease fitting and remove the purge plug before proceeding.

PROPER LUBRICATION OF ELECTRIC MOTOR BEARINGS

GREASEABLE BEARINGS			
RMP	FRAME RANGE	8 HOURDAY	24 HOURDAY
	143T—256T	*	*
3600	284TS—286TS	6 MONTHS	3 MONTHS
	324TS—587US	4 MONTHS	2 MONTHS
	143T—256T	*	*
	284T—326T	2 YEARS	1 YEAR
1800	364T—365T	1 YEAR	6 MONTHS
	404T—449T	9 MONTHS	3 MONTHS
	505U—587U	6 MONTHS	2 MONTHS
1200	143T—256T	*	*
AND	284T—326T	4 YEARS	18 MONTHS
BELOW	364T—449T	1 YEAR	4 MONTHS
	505U—587U	9 MONTHS	3 MONTHS

Make sure the passage of the purge hole is open and not blocked by hard grease. Inject into the grease fitting six to eight pumps of lubricant and start the motor to purge excess grease from the housing. Run the motor for approximately one hour to let the grease purge from the housing. If no grease purges from the housing, check the purge hole for hard grease and add more fresh lubricant and start the motor again. After purging the old grease from the housing, replace the purge plug and clean up any excess grease.

**B&B
ELECTRIC
MOTOR CO.**

332 LULU WICHITA, KS

**24 HOUR
EMERGENCY
SERVICE**

CALL
OFFICE (316) 267-1238
CELL (316) 641-0806
(316) 721-4178
(316) 529-4692
(316) 529-8503

OUTSIDE WICHITA
(TOLL FREE)
800-499-1238

To obtain your **color copy** of

THE BENCHMARK

Visit our **WEB SITE** at
bbelectricmotor.com
and click on **Newsletters**

PROPER LUBRICATION..CONTINUED

Lubrication of oil lubricated ball bearings and sleeve bearings require a special lubricant also. For oil lubricated ball bearings, you should use 40W turbine oil that is an R & O treated oil (rust & oxidizer inhibitors). For large motor sleeve bearings you should use 40W turbine oil. For small motor sleeve bearings you should use 20W turbine oil. All of the oils used for electric motor bearings have to be non-detergent type oil. DO NOT use automotive approved oils in electric motors. The oil will cause gumming to the bearings and contamination. Oil should be changed in large electric motors annually. They need to be checked monthly for the proper oil level in the motors. Small sleeve bearing motors should be lubricated annually. The oil can not be changed except when the motor is brought in for repairs. This information is provided as a guide to you to maintain your electric motors. The lubrication intervals may need to be more often depending on the application of your motors. If you have any questions about lubrication of motors, please contact the staff of B & B Electric Motor Co.

Our congratulations, again, go out to the Giesen family. In our September 2003 issue, we shared the birth of Canaan Giesen. Born 8/15/03, Canaan was the first Giesen grandbaby. Ed and Kim are the proud parents of their second son, Nik. Adoption was final the second week of February when they made their trip to Bulgaria to bring Nik home. Nik is 2½ years old and adjusting wonderfully to his new home and family.

Please join us in welcoming
Canaan's big brother....Nik

Canaan, Grandpa, Dad & Nik



SPRING 2004



B&B ELECTRIC MOTOR CO
332 LULU
WICHITA, KS 67211

PRSRT STD
U.S. Postage
P A I D
Wichita, KS
Permit No. 923



Mission Statement

B&B ELECTRIC MOTOR CO. is committed to the high standards established by the Electrical Apparatus Service Association. Our pledge is to maintain these standards and to provide the quality workmanship and service to our customers which has earned us an excellent reputation in over thirty-four years of business. We continually provide the newest technology and quality products to meet the needs of our customers. Our staff of dedicated professionals provides the best quality workmanship and service, and are the cornerstone of our business.