

GRAY & MACHINE, INC.

STEEL FABRICATING

555 INDUSTRIAL DRIVE
P. O. BOX 310

SINCE 1958

NAPOLEON, OHIO 43545
PHONE (419) 592-3926 OR 592-2626

July 14, 1980

MSIndustries
P. O. Box 107
Napoleon, Ohio 43545

Gentlemen:

About mid-December, 1979, we experienced a problem with our year-old OOYA Drill Press, model No. RE2-1450A. The main spindle bearing overheated within minutes, to the point that would not allow you to place your hand on the bearing housing. Before overhauling the spindle, I decided to try your "Microlon Treatment" for the first time. We formed a slurry by mixing 3 oz. of Microlon High Temperature/High Pressure grease with 3 oz. of Microlon. We then pumped the slurry into the bearing, flushing out the old grease.

The elapsed time from the point of maximum heat until the Microlon Treatment was approximately 8 minutes. We again started the drill press at low r.p.m. with no load, and ran about 15 minutes, then ran at high r.p.m. (900) for 10 more minutes. No additional heat was produced and the housing continued to cool.

Further evaluation that week under high speed low pressure drilling and then low speed high pressure drilling produced NO bearing heat.

We are satisfied that the Microlon bearing treatment works, and, as of this date, the bearing shows no sign of heating!


Having been impressed with the value of Microlon in reducing friction we then employed its benefits in treating our 100-Ton electronically controlled press brake. All bearings, gears, and hydraulics have been Microlon treated, making our Gray Multi-Depth Press Brake the finest, most efficient, friction-free machine of its type in the industry!

Six weeks ago our Machining Division received an order for 56 small bearing shafts manufactured from #304 Stainless Steel. We started to produce these shafts on one of our small lathes with a geometric head. The finish was rough and the threaded ends were torn and ragged. Again I thought of Microlon and immediately added it to the coolant. As you can see from the two shafts I have enclosed, the finish on the bearing steps have improved from a 63 micro finish to a 32 micro finish and the threads

are perfect.

From our experience to date, it appears that Microlon has a wide range of Metal treating applications in our industry.

Sincerely,

A handwritten signature in cursive script that reads "Dick Gray". The signature is written in black ink and is positioned above the typed name.

Dick Gray, President
Gray Steel Fab. & Machine, Inc.