

IH/EATON ENGINEERING LIAISON (Continued)

Lining Stability test equipment has been developed by Eaton's Engineering Research Center. This equipment is now being used to determine the propensity of new lining materials to cause drum 'hot spotting' similar to an industry wide problem experienced in 1979-81. This equipment is unique in the industry. Similarly, other full dynamometer procedures have been developed. These procedures include both drum and lining structural tests that continue to be run on all new lining formulations. The results of these continuing investigations will be made available to IH.

Eaton test facilities for brake products are the most comprehensive in the industry. These facilities include three brake dynamometers devoted exclusively to on-highway products. The use of these dynamometers was recently demonstrated when a lining integrity problem surfaced on both brake supplier's products but only Eaton was capable of utilizing a dynamometer full time for four months to develop procedures to identify this problem in conjunction with IH Engineering. Time and effort in resolving these issues amounted to \$189,517 to date. Eaton also has a full facility test track unique to heavy vehicle foundation brake suppliers in the U.S. This track has been recently used at the request of IH Engineering to resolve product questions on vehicle handling. The above facilities will continue to be at the full disposal of IH.

COST BY VOCATION

We have embarked upon a vocational matrix program to obtain data that will be used to determine cost per mile pertaining to serviceability and address the IH "lowest cost of ownership" commitment. In absence of this information we do have product features that can be readily identified as leading toward "LCO" as follows:

- Significantly more usable lining volume. 16.5" brakes (approximately 18%).
 - 120 degrees lining arc
 - Thicker material at shoe center. (0.502 inches, nominal)
- Structurally superior wing bracket
- Light weight spider - high strength, low alloy.
- Full fillet welded shoes
- Split pin and roller
- Heavy duty shoe return springs
- Quick change on front brake - only one offered in industry.

The above and other features guarantee the end user a reduced cost per mile over any competitive product.