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RSI BULLETIN #R-030

FROM: Daniel C. Ludwig

DATE: September 19, 1995

SUBJECT: 1M-PC Loss in Ring Side Clearance to Metric Units

The test procedure for the 1M-PC was distributed July 28, 1995 by the ASTM TMC through 1M-PC information letter 95-1. In accord to the information letter, test report forms included in the test procedure must be implemented within 60 days.

In these report forms, the unit of measure for the loss in ring side clearance is millimeters. The unit of measure prior to the implementation of the information letter was inches.

Most labs are still sending information to RSI with units of measure in inches. Based upon our interpretation of the ASTM information letter, all tests completed on or after October 1, 1995 will use millimeters.

Enclosed is a replacement form that summarizes key performance measurements for the Caterpillar 1M-PC. This form supersedes the 1M-PC form described in RSI Bulletin #R-023 and includes the new units of measure.

With respect to the RSI database, all 1M-PC tests that completed before October 1, 1995, and used inches as the unit of measure, will be mathematically converted by RSI. The conversion factor will be [inches X 25.4], and will be rounded to the third decimal place, i.e., 0.0005 inches will be indicated as 0.013 millimeters.

With respect to the Summary of Scheduled Tests that is generated by the CMA Monitoring Agency upon sponsor request, the units of measure will be changed to millimeters for all summaries generated on or after October 1, 1995. Where a test result has been mathematically converted to millimeters, a footnote will so indicate.

Please note that the test results in the summaries of scheduled tests indicate the units of measure.

Summary of Key Performance Measurements

Caterpillar 1M-PC		
Formulation/Stand Code:		
Test Number:		
	CF	CF-2
Top Groove Fill, %		
Weighted Total Demerits ¹		
Ring Side Clearance Loss mm, max		
Piston Ring Sticking		
Piston Scuffing, %		
Piston Ring Scuffing, %		
Piston Liner Scuffing, %		

*Forms 1MPC
RSI Bulletin #R-030*

¹ Techniques to determine Weighted Total Demerits are different for CF and CF-2.