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SHORT FORM AIRFLEX LAB INFORMATION REQUEST/REPORT

TITLE NON-ASBESTOS FRICTION MATERIAL SCREENING FOR STANDARD COEFFICIENT
VC-APPLICATIONS - JAPAN FAWICK FP-500 FRICTION MATERIAL

PROJECT NO. Y0259-15 REQUEST DATE March, 1986

REQUESTER J. Latsko TEST DATES 3/6/86/ and 3/17/86

TECHNICIAN(S) Roger Smith REPORT DATE April, 1986

APPROVED BY Roger Z. Smith TEST STAND Friction Material
Test Machine

1.0 PREFACE:

Japan Fawick is using FP-500 non-asbestos friction material, and they have requested an Airflex evaluation of said material. Accordingly, the objective herein is to compare the performance/wear characteristics of this material to both the established characteristics of the standard (asbestos base) VC friction material, and also to the Japan Fawick supplied FP-500 data.

2.0 INSTRUCTIONS:

Using the Japan Fawick FP-500 friction material, perform automatic cast iron drum driveline deceleration tests per the following:

Drum test temperatures: 100 Deg. F (wear-in thru stabilization),
300 Deg. F, 500 Deg. F, 700 Deg. F, and 100 Deg. F.

Drum test speed: 3000 FPM initial velocity.

Test stand inertia: 60 lb.-ft.sq.

Applied pressure: 75 PSI

3.0 RESULTS:**3.1 AIRFLEX DATA:**

As depicted on the accompanying graphs, for the one speed/pressure condition tested, the FP-500 and NF-285 friction materials exhibited similar dynamic and static coefficients of friction, except that the NF-285 developed approximately 100% coefficient on the first 100 Deg. F. cycle, while the FP-500 developed approximately 75% coefficient under the same conditions; conversely, the NF-285 developed approximately 25% less coefficient than the FP-500 at the 700 Deg. F test condition. Also, per the above test procedures, the FP-500 friction material provided approximately two to five times the wear life of the NF-285 friction material for temperatures from 100 Deg. F through 500 Deg. F, with diminished, but basically equivalent wear lives thereafter through 700 Deg. F.