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AIRFLEX TEST REQUEST

DATE July 15, 1983 REQUESTED BY Jim Latsko

TEST DESCRIPTION NON-ASBESTOS STANDARD COEFFICIENT FRICTION MATERIAL EVALUATION
ON 14VC500 CLUTCH

TEST STAND 300HP PART NUMBER/S 42x223 FLOW CONTROL VALVE

PARTS LIST _____ Y OR Z NUMBER Y0259-4

1.0 PREFACE:

Because of the potential health hazards associated with asbestos, including the possibility of additional government controls and/or regulations, it is desirable to eliminate the use of asbestos in our friction materials.

2.0 OBJECTIVE:

The objective of this test is to qualify non-asbestos friction materials as suitable for normal VC element usage.

3.0 INSTRUCTIONS:**3.1 WEAR IN:**

Using a 14VC500 and a new/refinished drum with friction material as specified by the writer, wear in the friction material at 340 RPM, 250°F drum bulk temperature, 75 PSI effective pressure per the Basic Inertia Acceleration Standard Procedure #ABCDEJKLQRTU 0062 0000 C.

3.2 PERFORMANCE:

Utilizing the 3.1 procedure, conduct performance tests at 150°F, 250°F, 350°F, 450°F, 550°F, and 150°F; however, after each of the preceeding conditions, obtain a static torque data point utilizing the "pullout" test method. Plot average torque versus average drum temperature.

3.3 HIGH ENERGY:

If performance test results warrant further evaluation, conduct a 100 PSI effective flow controlled 4 sec. to 8 sec. (slip time) high energy inertia acceleration (ambient to 100°F starting drum temperature) to 340 RPM, with sufficient accelerations to establish stabilized acceleration characteristics.

3.4 WEAR:

If the above test results warrant further evaluation, conduct a wear test with new friction material and a new/refinished drum per the 3.1 procedure.

Jim Latsko

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