

BOSMAL's demands about the test stand verification, both at the Contractor's and BOSMAL's sites are shown in Tables 1 to 8.

II RUNNING-IN TEST

A running-in test for tests from TEST 1 to TEST 6 is contained in Table 1. The test results are considered as positive if the last ten out of a hundred of brake applications (those from 91st to 100th) have a less than 5% braking torque spread. In case the spread exceeds 5%, additional 100 of brake applications should be performed followed by a torque spread check. This procedure can be repeated 3 times max.

In case the results of the running-in test are still negative (torque spread greater than 5%), test components (a disc and braking pads) should be replaced

Table 1

RUNNING-IN				
Number of brake applications	Initial speed V_i [km/h]	End speed V_e [km/h]	Initial temperature (*) T_i [°C]	Pressure [bar]
100	80	5	100	30
(*) Braking initial temperature measured inside the brake lining as shown in Fig. 1				

III FUNCTIONAL FRICTION TESTS

The details of the functional friction tests are shown in the Tables from 2 to 6.

Table 2

TEST 1 COLD CYCLE - MULTIPLE PRESSURE LEVELS			
Pressure – „P” = 10 ÷ 110 bar			
Initial speed – „V _i ” = 100 km/h			
End speed – „V _e ” = 0			
Inertia momentum: 100 kgm ²			
Braking initial temperature „T _i ” = 100°C (*)			
M ₁ , M ₂ , M ₃ – three consecutive torque measurements			
Pressure [bar]	Braking torque [daNm]		
	M ₁	M ₂	M ₃
10			
20			
30			
50			
80			
90			
110			
(*) Braking initial temperature measured inside the brake lining as shown in Fig. 1			