



SAF Intradisc - Engineers Report -



Test performed by: Brake Testing International Ltd

Test date: 26 September 2006

Type of test: CV Global Spec. - Strength Test with SAF Intradisc and Knorr Bremse SB7000

Testing Equipment: Inertia Dynamometer

Test No: 070906

Test Ref: BTI 412 rev1

Friction Material: Jurid 539FF

Inertia: 1641.00 kgm²

Brake Caliper: SB7000

Brake Disc: SAF105

Effective rad: 175mm

Rolling rad: 528mm

Test Programme: 500 brake applications to be carried out from a speed of 50km/h to 10km/h, with a brake torque of 90% of the maximum brake torque specified. For this test the maximum brake torque specified was taken to be the torque required to obtain 50% g, which is 15000Nm. Therefore the test torque was 13500Nm. Initial temperature: $\geq 200^{\circ}\text{C}$

Test Requirement: The test is regarded to have been passed if the brake disc does not exhibit any signs of fracture after 500 brake applications.



Inboard Disc after 200 stops



Outboard Disc after 200 stops



Inboard Disc after 400 stops



Outboard Disc after 400 stops

Test Results:



Inboard Disc after 500 stops -
Test completed



Outboard Disc after 500 stops -
Test completed

The Juratek supplied 'SAF Intradisc' was seen not to have any cracks following the strength test as described above. It can be seen in above photographs that there was no fracture or damage after the 500 brake applications.

