Customer:	Lagear ENT CO LTD
Contact person:	Robert Z Liu
EFBe Date of Order:	2012-08-09
Fax-No.:	+886 4 25 39 19 73

Testreport
Maximum load + Overload test
Bicycle seat post
Test item no. 123980

Test sample data

Manufacturer:	Lagear
Model name:	SPC 21
Identity no.:	None
Suspension:	None
Coating:	Yes
Total weight (g):	208
Application:	MTB
Total length (mm)	400
Diameter (mm)	31,3
Clamping torque (Nm)	6
Insertion depth (mm)	90
Remarks	None

Test description   (SÜF2)

Maximum-/overload test seat post EFBe   (SÜF2)

The **Test set-up** is corresponding to EN 14781, 4.14.7 for **racing bikes**. The seat post mounting angle is consistantly 70 degree instead of 73. The pneumatic test load is controlled via the cylinder pressure using a precision pressure gauge. The measuring error is +/-3 %, the duration of load input is 10 s for maximum load and 1 s for overload. The **requirements** are following EFBe recommendations for a permissable total weight of 110 kg:

A Maximum load test		**B Overload test**	
Load 1:	2 200 N	Load 2:	3 000 N
max. perm.deformation:	10 mm	Fracture behavior:	no brittle fracture
Fracture behavior:	no crack / fracture		

Test result:

A Maximum load test:		**B Overload test:**	
Test load 1:	2200 N	Test load 2:	3000 N
Permanent deformation:	0.9 mm	Crack/fracture/deform.:	Yes
Crack or fracture:	No	Brittle fracture:	Yes
The Maximum load test was passed.		**The Overload test was <u>not</u> passed.**	

Remarks: For preceeded tests please see testreport No. P1206039. Brittle fracture in the tube.

Test engineer:	i.A. V. Stobberg		
End of testing:	2012-08-15	Waltrop 2012-08-24	....
			stamp, sign

Caution!
Fatigue tested parts cannot be used further on.
Acute danger of fracture!