EFBE PRÜFTECHNIK

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Customer:	Lagear ENT CO LTD
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EFBe Date of Order:	2012-08-09
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Testreport

Computer controlled fatigue test of a
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

The seatpost was fatigue tested following EFBe-Standard 7520. This means a computer controlled and documented single stage test (Wöhler-test) with an error less than 1% and a standard deviation less than 0,5%.
In case of suspension test samples the test is carried out with the original suspension unit: spring rate, spring preload and damping at maximum if possible.

Fatigue-test seat post EFBe TP-M (SDFTPM)

The **test arrangement** is loading the seat post by a rear lever. It is following EN 14764, clause 4.14.7, but enhanced in the following items:
- Stem of patent seat post is fixed with a standardized angle of 70 degrees. The position of the rear lever is 10 degrees downwards.
- The lever gage 70 is defined from the middle of the clamping area.

The **requirements** are corresponding to EFBe-class **Top Performance** for **mountain bikes** (TP-M):

Testing forces (pulsating):	1200 N
Allocated number of loads:	100 000

Test result:

The allocated number of loads was reached without any crack or fracture.
The test was passed.

Remarks: None

Test engineer: i.A. V. Stobberg
End of testing: 2012-08-14 Waltrop 2012-08-24 .....
stamp, sign

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