

Customer:
Contact person:
EFBE Date of Order:
Fax-No.:

Lagear ENT CO LTD
Mr.
2012-08-09

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Testreport

Computer controlled fatigue test of a
Bicycle handlebar + stem
Test item no. 123978

Test sample data

	handlebar	stem
Manufacturer	Lagear	Lagear
Model name	HB-RBC2-32	None
Identity no.	None	None
weight (g)	223	127
Suspension	None	
Coating	Yes	Yes
Width / clamping width (mm)	420 / 420	
Clamping diameter (mm)	32	28,6
Length stem (mm)		100
Remarks	None	

Test description

The handlebar / stem 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 spring rate, spring preload and damping at maximum.

Fatigue test handlebar/stem EFBe TP-R (LDKTPR)

The **test arrangement** is loading the handlebar ends in a two stage test (antiphase and inphase). It is following EN 14764, Abs. 4.7.7, but enhanced in the following items: The load on bended road handlebars is applied in the same direction but in the middle between the front face of the handlebar bend and the handlebar end. If a dummy handlebar is used, the load input is corresponding to the handlebar width specified by the customer and a front offset of 30 mm.

The **requirements** are corresponding EFBe-class **Top Performance** for **racing bikes** (TP R):

	Anti phase	In phase
Top load:	+325 N	+ 375 N
bottom load:	- 325 N	- 375 N
Allocated number of cycles:	100 000	100 000

Test result:

Anti phase: The allocated number of loads was reached without any crack or fracture.

In phase: 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: 2012-09-10

Waltrop 2012-09-13
stamp, sign

This test report may not be reproduced but with complete wording. It contains the result of a one-time type testing and no statements about quality of serial production components are made. Readings of dimensions, torques and weights without engagement.

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