

Attention: Mr. M Hoyer

CUSTOMER REQUIREMENTS

Hoyer Retail
29 Greyton Crest
Sunward Village
Sunward Park
BOKSBURG
1470

Micro repair + inflating kit
Dynamic Radial Tyre Fatigue & Static Load Test

Report Number:

Sample Tested:

2710/C5378

Cargol turn & go
Micro repair + inflating kit
(For tubeless tyres only)

Date:

20 March 2008

Tested by:.....

T C Mnisi
(Test Officer)

Checked by:.....

P V Thwala
(Test Officer)

Approved by:.....

L van Driel
(Manager)



Conclusion:

The sample tested complied with the requirements of the customer, specific to those tests conducted in this report.

Number of pages 8

**1 Dr Lategan Road Groenkloof, Private Bag X191 Pretoria 0001, Tel: +27 (012) 428-7911,
Fax: +27 (012) 344-1568.**

This test was performed by SABS Commercial (Pty) Ltd.
This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.
(Refer also to the complete conditions printed on the back of the official test reports.)

Contents

1.	Introduction	3
	1.1 Object	3
	1.2 Submitted information	3
	1.3 Sampling procedure	3
	1.4 General information	3
2.	Description of Clauses & test results	4
3.	Summary of test data	4
4.	Remarks	5
5.	Annex 1 – Photographs after test	6
6.	Conditions	8

**1 Dr Lategan Road Groenkloof, Private Bag X191 Pretoria 0001, Tel: +27 (012) 428-7911,
Fax: +27 (012) 344-1568.**

This test was performed by SABS Commercial (Pty) Ltd.
This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.
(Refer also to the complete conditions printed on the back of the official test reports.)

1. INTRODUCTION

1.1 Object

- 1.1.1 To perform a test on Micro repair + inflating kit on a tubeless tyre.
 1.1.2 To perform a Radial Fatigue tyre test identified below for compliance with the customers requirements.

1.2 Submitted information

The sample was submitted with test information.

1.3 Sampling procedure

The client submitted the wheel and Micro repair + inflating kit samples personally.
 The test house had no influence on the selection of the samples.
 The samples handed were in a test worthy condition.

1.4 General information

Retailer	Hoyer Retail 29 Greyton Crest Sunward Village Sunward Park BOKSBURG 1470
Trade name or mark	Hoyer Retail
Part Number	PT08HR01
Patent Number	U200701098
Sample Make	Cargol turn & go
Tyre size	205/55/R16
Maximum tyre load	615 kg
Maximum tyre inflation	350 kPa
Number of samples tested	One Sample
Date Tested:	19/03/2008 to 20/03/2008

2. DESCRIPTION OF CLAUSES AND TEST RESULTS

The symbols used in the results are as follows:

N/A = not applicable

N/T = not tested

N/F = not fitted

T = tested

P = compliance

F = non compliance

I = inspected

* = refer to remarks

Annex/Clause	Description	Results
2.1.1	Inspect the tyre and rim for being test worthy	I
2.1.2	Inflate the tyre to maximum recommended pressure	350kPa
2.1.3	Mount the tyre to dynamic radial fatigue machine and puncture once (4mm thick device)	I
2.1.4	Screw the Cargol into the puncture hole, so that it is perpendicular to the wheel	I
2.1.5	Break odd the top part of the Cargol that is outside the tyre. The hole has been plugged	I
2.1.6	Remove the tyre valve cap. Screw the adapter on tightly.	I
2.1.7	Wrap the protective mesh around the cartridge to avoid touching the metal. Screw the cartridge onto the adapter as far as it will go. The compressed air (CO2) will expand under pressure inside the tyre in a few seconds, use more cartridge until the right pressure is obtained. Then unscrew the adapter from the valve and put on a cap.	I*
2.1.8	Subject the wheel and tyre assembly to 500 000 test cycles with the radial test force equals to the maximum load rating specified by the manufacturer. Record the pressure before the radial test.	I
2.1.9	Check the pressure and recorded at after every 125 000 cycle.	I
2.1.10	Radial fatigue test to be followed by static 3 hour cycle, full load. Check the pressure before and after the test.	T

3. SUMMARY OF TEST DATA

Clause 2.1.10: Dynamic radial fatigue test

Number of cycles tested	Tyre Pressure (kPa)
0	350
125 000	385
250 000	402
375 000	418
500 000	426

Clause 2.1.11 Static load test

Elapsed Testing Time	Tyre Pressure (kPa)
0h00	350
3h00	322

1 Dr Lategan Road Groenkloof, Private Bag X191 Pretoria 0001, Tel: +27 (012) 428-7911,
Fax: +27 (012) 344-1568.

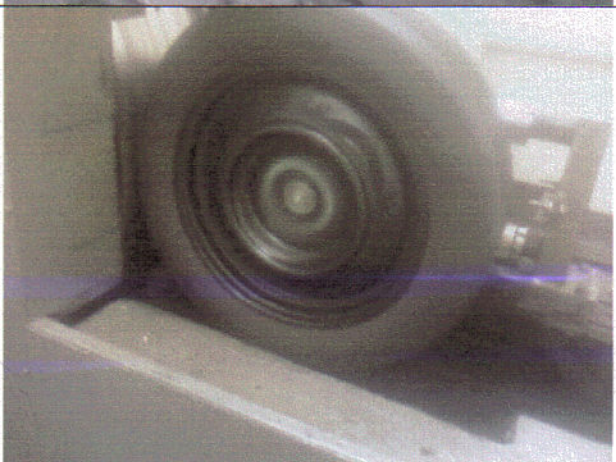
This test was performed by SABS Commercial (Pty) Ltd.

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.

(Refer also to the complete conditions printed on the back of the official test reports.)

4. **REMARKS**

- The sample completed the required cycles and there was an increase in pressure during the dynamic test, due to heat build up.
- *Clause 2.1.8:* One cartridge inflates the tyre by 35 kPa.
- Limited pressure losses were experienced during static puncture operation (max load).
- *Clause 2.1.12:* The speed of the wheel was 370 rev/min.
- The kit (Micro repair + inflation) is for emergency purposes only



**1 Dr Lategan Road Groenkloof, Private Bag X191 Pretoria 0001, Tel: +27 (012) 428-7911,
Fax: +27 (012) 344-1568.**

This test was performed by SABS Commercial (Pty) Ltd.

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.

(Refer also to the complete conditions printed on the back of the official test reports.)