

Test Report No.: **01 220 CHN/T-2000114**

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Test Report

Client: GUANGZHOU ZHONGPENG AUTO PARTS CO., LIMITED

Client address: D215, XINHUA AUTO PARTS PLAZA, 44 YONGFU ROAD,
GUANGZHOU, GUANGDONG, CHINA

Contact information: Tel.: +86-20-28186388
Mail: service@bonoss.com

Sample No.: SHM20200100114

Sample receiving date: Jan.8, 2020

Testing period: Jan.8, 2020~Jan.15, 2020

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



Jan.15, 2020

Yixiang Shen
Metal Materials Lab
Technical Manager

Date

Name



Test Report No.: **01 220 CHN/T-2000114**

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1. Sample information (provided by customer):

Sample name: BONOSS WHEEL STUDS

Sample description: Three pieces of steel bolts

Sample obtaining method: Sending by customer Sampling by TÜV staffs
 Other ()

Other information: Product specification: M14*1.5, 12.9;
Material and Mark: SCM440.

Sample photo(s):



1#



2#



3#



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2. Test result:

2.1 Tensile test:

Test method: ISO 898-1:2013+Cor.1:2013

Test item	Result Tensile strength (N/mm ²)
Result-1#	1233 The fracture occurred in the free threaded length.

2.2 Proof load test:

Test method: ISO 898-1:2013+Cor.1:2013

Sample	Proof load (kN)	Result (μ m)
2#	121.0	+4

2.3 Tensile test under wedge loading:

Test method: ISO 898-1:2013+Cor.1:2013

Sample	Wedge angle α	Ultimate tensile load (kN)
3#	4°	154.897 The fracture occurred in the free threaded length.

--- END ---



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GUANGZHOU, GUANGDONG, CHINA

Contact information: Tel.: +86-20-28186388
Mail: service@bonoss.com

Sample No.: SHM20200100115

Sample receiving date: Jan.8, 2020

Testing period: Jan.8, 2020~Jan.15, 2020

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



Jan.15, 2020

Yixiang Shen
Metal Materials Lab
Technical Manager

Date

Name



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TÜV Rheinland (Shanghai) Co., Ltd. TÜV Rheinland Building, No.153, 165, 177, 178, Lane 777, West Guangzhong Road, Jing'an, Shanghai 200072, P.R. China
Tel.: +86 21 6108 1188 Fax: +86 21 6108 1099 Mail: service-gc@tuv.com Web: www.tuv.com

Test Report No.: **01 220 CHN/T-2000115**

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1. Sample information (provided by customer):

Sample name: BONOSS WHEEL STUDS

Sample description: Two pieces of steel bolts

Sample obtaining method: Sending by customer Sampling by TÜV staffs
 Other ()

Other information: Product specification: M14*1.5, 12.9;
Material and Mark: SCM440.

Sample photo(s):



1#



2#

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2. Test result:

2.1 Decarburization test-hardness method:

Test method: ISO 898-1:2013+Cor.1:2013

Sample	Hardness scale	HV(1)	HV(2)	Requirement	Conclusion
1#	HV0.3	388	386	HV(2)≥ HV(1)-30	No decarburization

2.2 Retempering test:

Test method: ISO 898-1:2013+Cor.1:2013

Sample	Hardness scale	Test position	Test condition	Result			Reduction of hardness after retempering
2#	HV10	1d back from the end of the thread, half-radius area	Before retempering	387	389	390	6
			After retempering	384	383	382	

2.3 Hardness test:

Test method: ISO 6507-1:2018

Sample	Hardness scale	Test position	Result		
1#	HV10	1d back from the end of the thread, half-radius area	390	386	386

--- END ---



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Test Report

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Client address: D215, XINHUA AUTO PARTS PLAZA, 44 YONGFU ROAD,
GUANGZHOU, GUANGDONG, CHINA

Contact information: Tel.: +86-20-28186388
Mail: service@bonoss.com

Sample No.: SHM20200100116

Sample receiving date: Jan.8, 2020

Testing period: Jan.8, 2020~Jan.14, 2020

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



Jan.14, 2020

Yixiang Shen
Metal Materials Lab
Technical Manager

Date

Name



Test Report No.: **01 220 CHN/T-2000116**

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1. Sample information (provided by customer):

Sample name: BONOSS WHEEL STUDS

Sample description: A piece of steel bolt

Sample obtaining method: Sending by customer Sampling by TÜV staffs
 Other ()

Other information: Product specification: M14*1.5, 12.9;
Material and Mark: SCM440.

Sample photo(s):



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2. Test result:

Chemical composition analysis:

Test method: OES

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Cu
Result,%	0.41	0.21	0.68	0.012	0.005	0.98	0.016	0.16	0.016

--- END ---

