

## TEST REPORT

No. : GZIN1911061631ML

Date : Nov 21, 2019

Page: 1 of 4



CUSTOMER NAME: GUANGZHOU ZHONGPENG AUTO PARTS CO., LIMITED  
ADDRESS: D215, XINHUA AUTO PARTS PLAZA, 44 YONGFU ROAD,  
GUANGZHOU, GUANGDONG, CHINA

Sample Name : EXTENDED WHEEL BOLTS  
Product Specification : M14\*1.5  
Manufacturer : BONOSS  
Material and Mark : SCM440

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : Nov 14, 2019  
Testing Start Date : Nov 14, 2019  
Testing End Date : Nov 21, 2019  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. GZ Branch Testing  
Center

Shining Chan  
Authorized signatory



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Tensile Test for Full-Size Fastener:

Test Method: ISO 898-1:2013+Cor-1:2013

Test item	Ultimate tensile load (N)	Tensile strength (MPa)	Broken location
M14-P1.5 Grade 12.9 Result	154475	1236	The free threaded length



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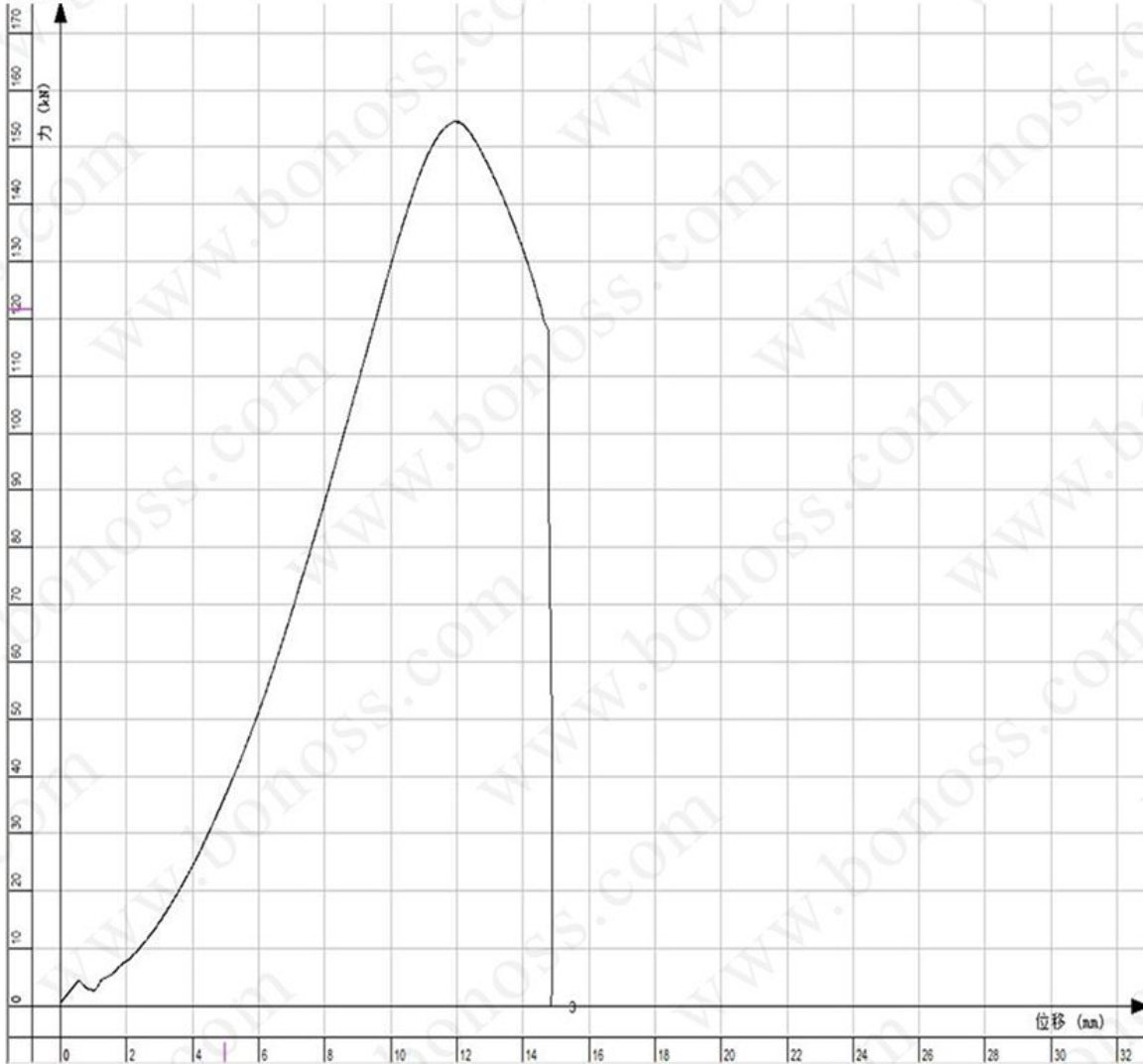
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Curve:



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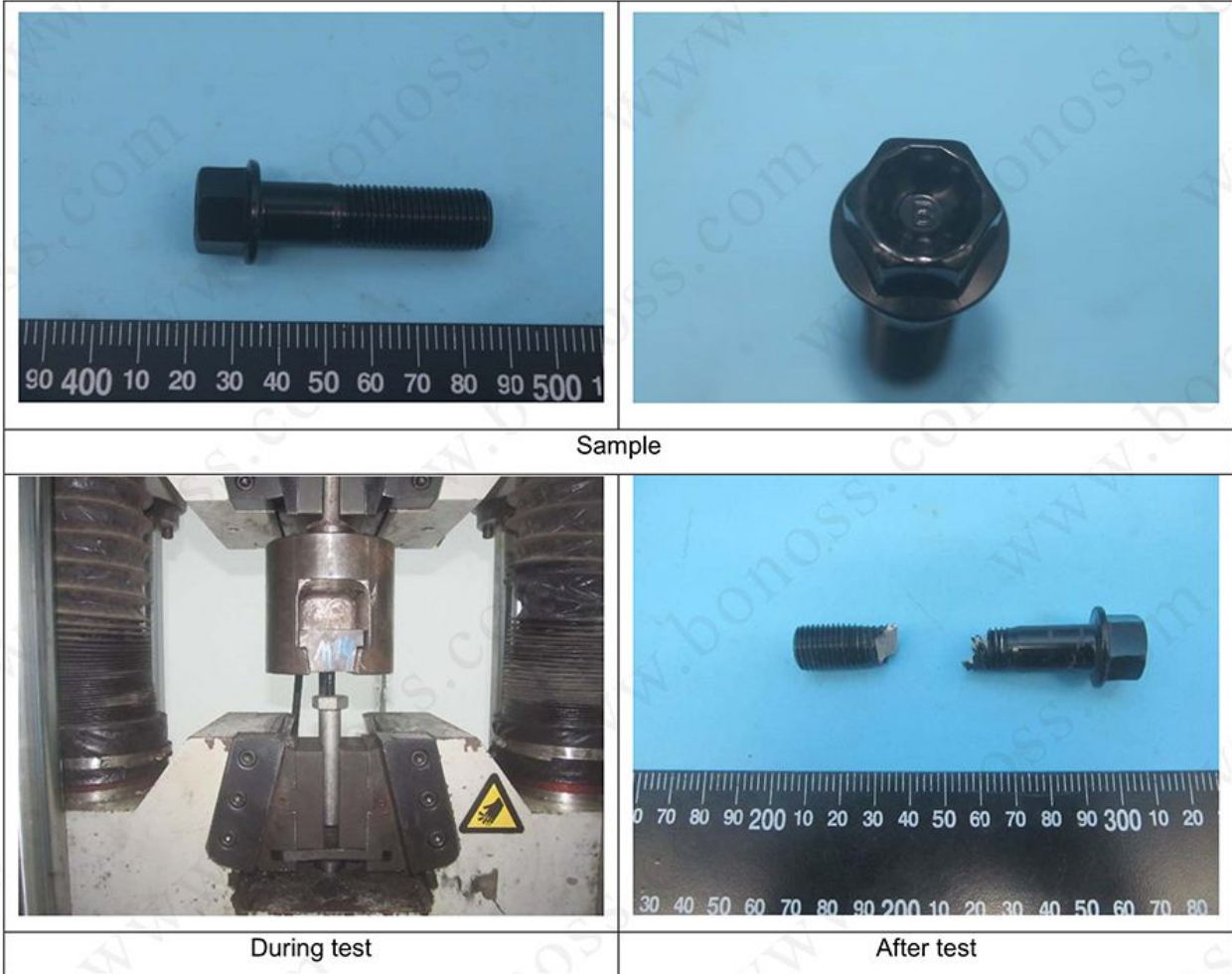
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Photos:



Sample

During test

After test

\*\*\*\*\* End of report\*\*\*\*\*



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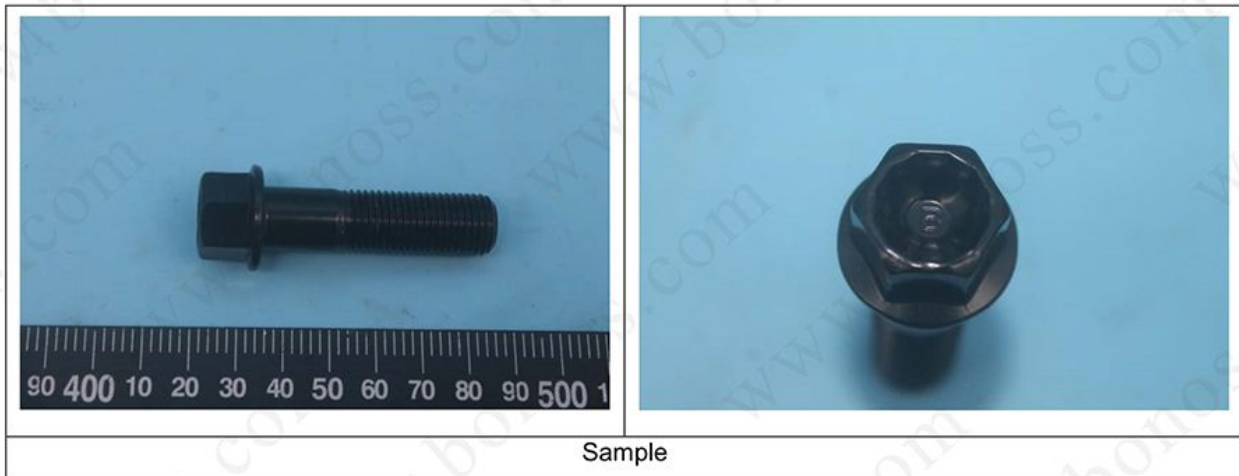
**Proof Load Test:**

Test Method: ISO 898-1:2013+Cor-1:2013

Test requirement: Assemble the sample into tension testing machine. Apply a specified axial proof load to the fastener and hold for 15 s. Some variables can result in apparent elongation when the proof load is initially applied. In such cases, the fastener shall be retested using a 3% greater load than the proof load. The length of sample after unloading shall be the same as before loading within a tolerance of 12.5 µm allowed for measurement error.

Specification	Class	Proof load (N)	Result (µm)
M14-P1.5	12.9	121000	+5

**Photos:**



Sample



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During test



After test

\*\*\*\*\* End of report\*\*\*\*\*



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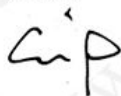
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Manufacturer : BONOSS  
Material and Mark : SCM440

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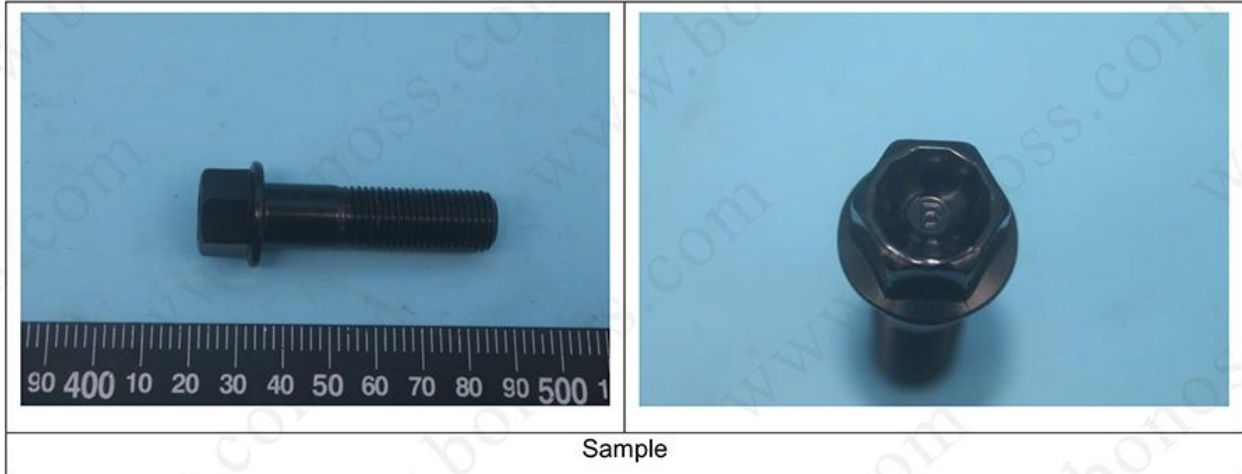
### Wedge Loading Test:

Test Method: ISO 898-1:2013+Cor-1:2013

Test requirement: Place a specified wedge under the head of the sample. Perform the tensile test under the wedge loading until the sample is broken. Record the ultimate tensile load and the fracture position of sample.

Test item	Wedge angle (°)	Ultimate tensile load (N)	Tensile strength (MPa)	Broken location
M14-P1.5 Grade 12.9 Result	4	148714	1190	The free threaded length

### Photo:



Sample



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During test



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Hardness Test:

Test Method: ISO 6507-1:2018

Test item	Sample	Result			
		1	2	3	Average
HV10	Inner	393	394	390	392

Original Sample Photo:



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# TEST REPORT

No. : GZIN1911061635ML

Date : Nov 21, 2019

Page: 1 of 2



CUSTOMER NAME: GUANGZHOU ZHONGPENG AUTO PARTS CO., LIMITED  
ADDRESS: D215, XINHUA AUTO PARTS PLAZA, 44 YONGFU ROAD, GUANGZHOU, GUANGDONG, CHINA

Sample Name : EXTENDED WHEEL BOLTS  
Product Specification : M14\*1.5  
Manufacturer : BONOSS  
Material and Mark : SCM440

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : Nov 14, 2019  
Testing Start Date : Nov 14, 2019  
Testing End Date : Nov 21, 2019  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. GZ Branch Testing  
Center

Shining Chan  
Authorized signatory



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### Chemical Composition Analysis:

Test Method: ASTM E415-17

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Cu
Result, %	0.42	0.24	0.68	0.016	0.003	0.97	0.022	0.16	0.032

### Original Sample Photo:



\*\*\*\*\* End of report\*\*\*\*\*



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## TEST REPORT

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Date : Nov 21, 2019

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### Decarburization Test:

Test Method: ISO 898-1:2013+Cor-1:2013

Etching Reagent: 4% nitric acid alcoholic solution

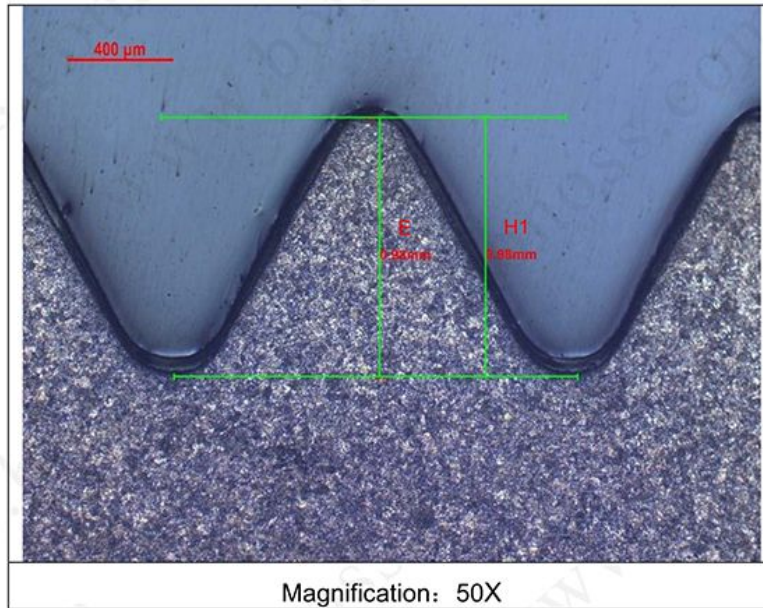
Step 1. Sampling from main body of material;

Step 2. Mounting, cleaning, grinding, polishing and etching;

Step 3. Observing with the microscope.

Test Result: G(Complete decarburization)=0; E(No decarburization) is about 0.98mm

Test Photo:



SGS-CS  
Guangzhou Site  
Guangzhou Site  
Guangzhou Site

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