

TEST REPORT

No. : GZIN1911061617ML

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 : 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.

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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)
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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	154581	1237	The free threaded length



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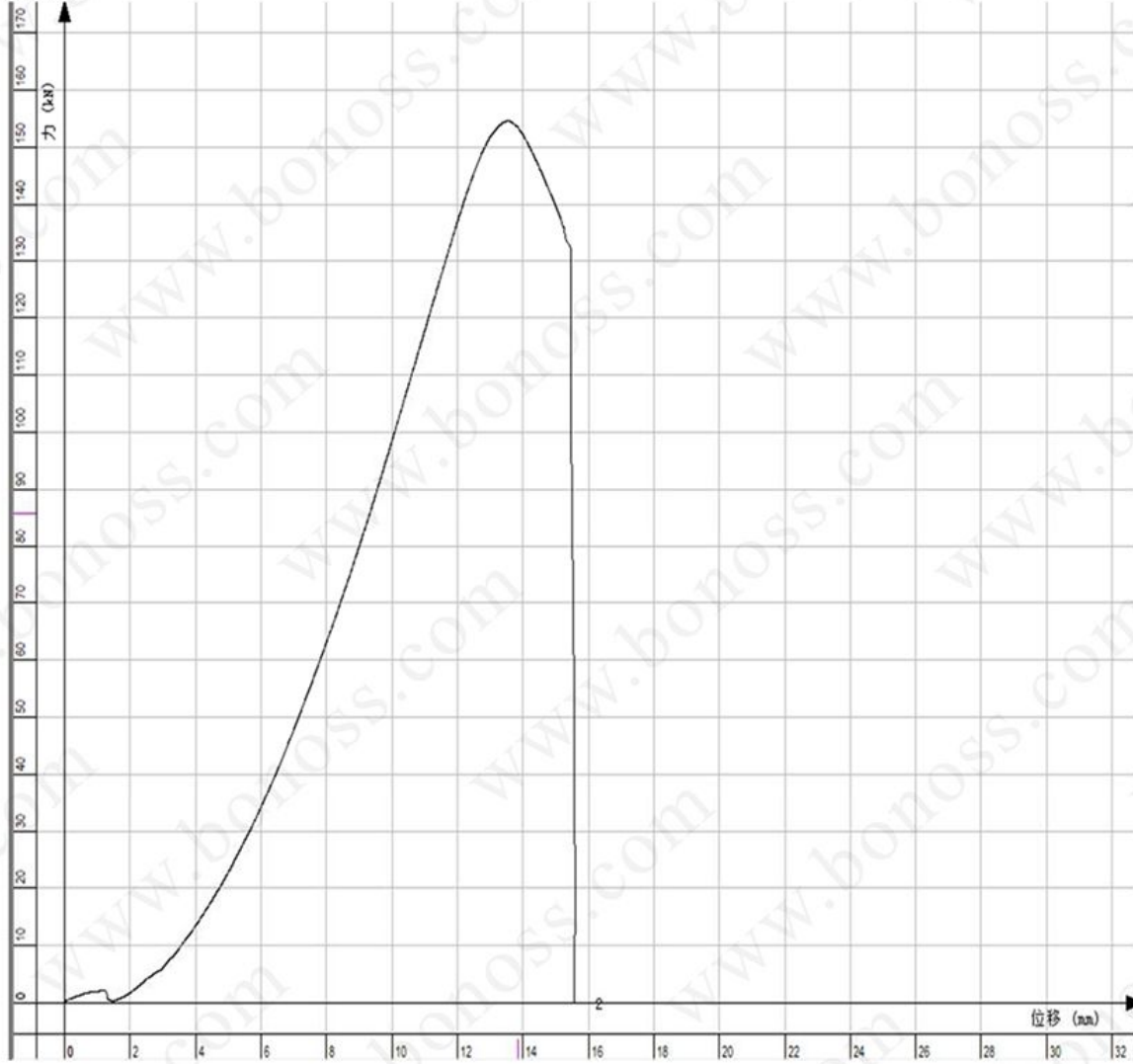
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Curve:



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Manufacturer : BONOSS
Material and Mark : SCM440

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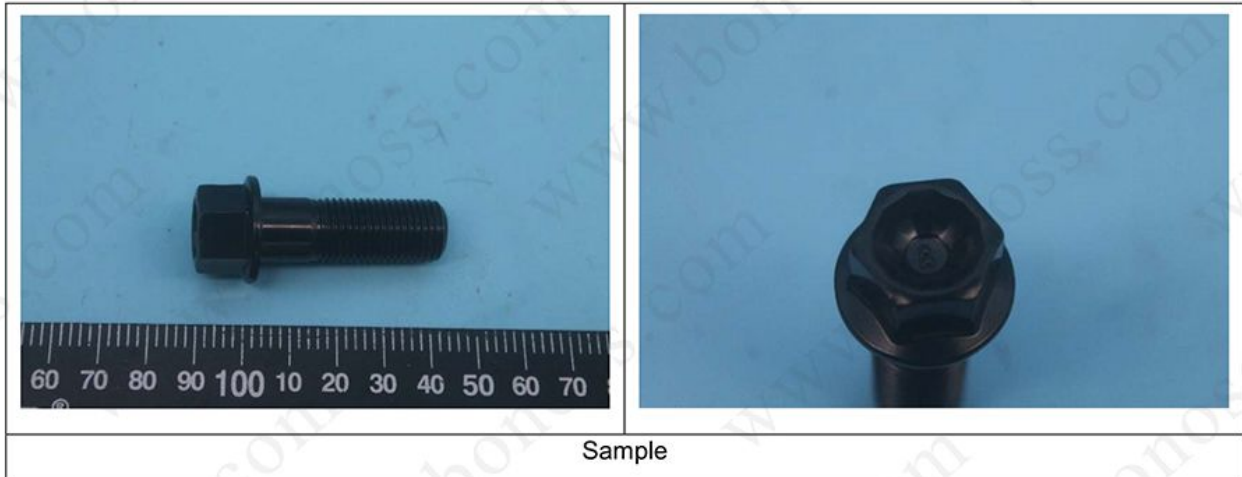
Proof Load Test:

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	+7

Photos:



Sample



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During test



After test

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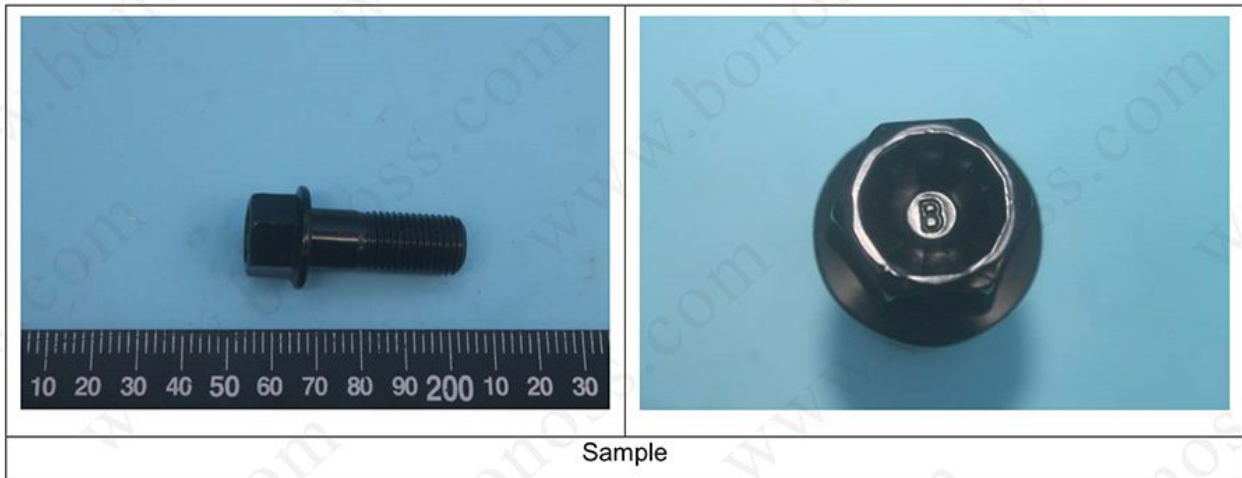
Wedge Loading Test:

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	155354	1243	The free threaded length

Photos:



Sample



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During test



After test

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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	0.017	0.004	0.98	0.021	0.16	0.032

Original Sample Photo:



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Center

Shining Chan
Authorized signatory



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TEST REPORT

No. : GZIN1911061622ML

Date : Nov 21, 2019

Page: 2 of 3

Decarburization Test:

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

Etching Reagent: 4% nitric acid alcoholic solution

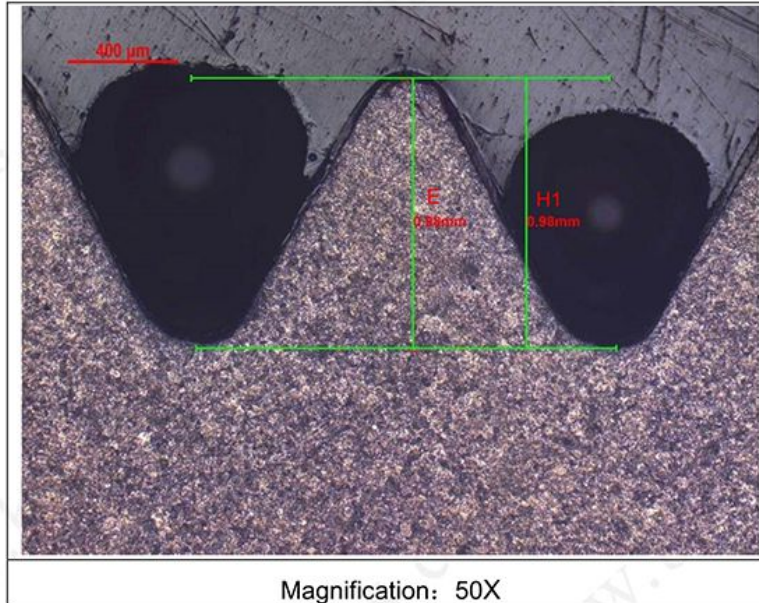
Step 1. Sampling from main body of material;

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:



Magnification: 50X



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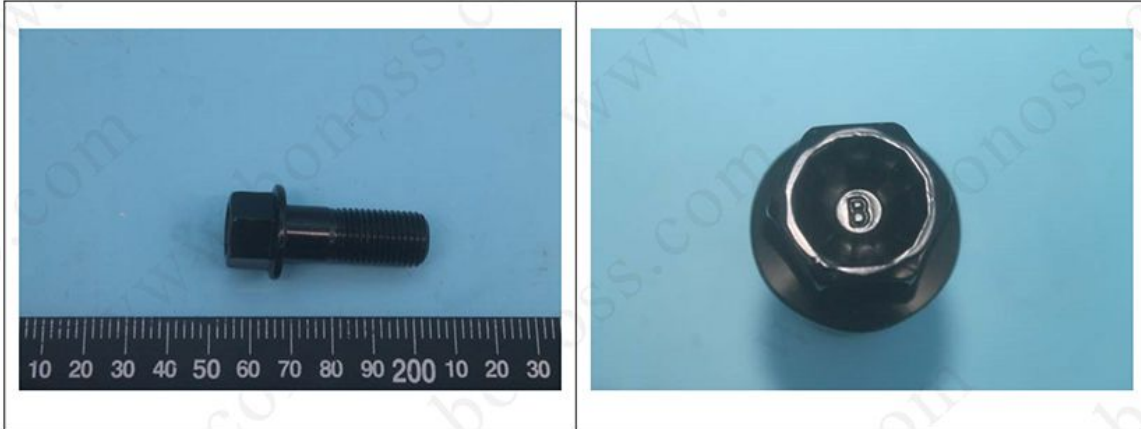
TEST REPORT

No. : GZIN1911061622ML

Date : Nov 21, 2019

Page: 3 of 3

Original Sample Photo:



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



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Guangzhou Site
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TEST REPORT

No. : GZIN1911063908ML

Date : Dec 19, 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 : 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 26, 2019
Testing Start Date : Nov 26, 2019
Testing End Date : Dec 19, 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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TEST REPORT

No. : GZIN1911063908ML

Date : Dec 19, 2019

Page: 2 of 2

Limited life range test:

Test Method: ISO 3800:1993

Sample No.	Test Requirement	Result
1	The static load is 54.83kN, the dynamic load is 5.48kN, without damage after the numbers of 1,000,000 stress cycles.	Reach the numbers of 1,000,000 stress cycles without damage.

Note: The above test was carried out by CHINA COMPONENTS TEST.

Original Sample Photo:



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



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TEST REPORT

No. : GZIN1911063909ML

Date : Jan 02, 2020

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 : WHEEL BOLTS
Product or Lot No. : 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 26, 2019
Testing Start Date : Nov 26, 2019
Testing End Date : Jan 02, 2020
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)

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TEST REPORT

No. : GZIN1911063909ML

Date : Jan 02, 2020

Page: 2 of 2

Limited life range test:

Test Method: ISO 3800:1993

Sample No.	Result
1	Maximum load is 60.31kN, Minimum load is 49.35kN, reach the numbers of 2,000,000 stress cycles without damage.

Note: The above test was carried out by CHINA COMPONENTS TEST.

Original Sample Photo:



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