

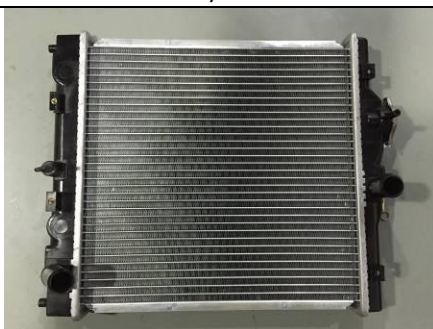
Test Report

Report Number: 160329SHJ-AMQS

Applicant Name: Guangzhou Kinga Autoparts Industry Manufacture Co., Ltd
Applicant Address: 16-17,1C/F No.45 YongFu Rd Guangzhou Guangdong,P.R.C
Attn: Mr. Emily Zhu

Report Date: May 5th, 2016**Sample Description:**

Product: Auto Radiator
Model: RA-01
Samples Quantity: 3 pieces
Sample ID: N/A
Date Received: Apr. 2nd, 2016
Date Test Conducted: Apr. 4th, 2016 – Apr. 27th, 2016
*Trademark: N/A
*Rated capacity: N/A
*Size/color: Black frame
Test address different from lab address (if existed) : N/A



Received sample

Tests Conducted:

Test protocol/standard: SASO 82/2008, SASO 83/2008 Test duration: Apr. 4th, 2016 – Apr. 27th, 2016
SASO 2278/2011

Test category: Validation test

Test result: Please refer to attached pages for details.

Conclusion:

The **Auto Radiator** by **Kinga** Meet the requirements indicated in SASO 82/2008, SASO 83/2008 & SASO 2278/2011.

Should you have any queries about the test report, please contact: john.zheng@intertek.com

Approved by:

Jack Yang
Manager

Checked by:

John Zheng
Performance Test
Supervisor

Prepared by:

Oliver Hu
Test Engineer



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Test Items, Method and Results:

TESTS PERFORMED				
No.	Test specification		REMARK	VERDICT
1	Visual Inspection	- Each radiator shall be visually inspected with the naked eye to check the existence of any apparent defects in manufacture or whether any of its parts is missing. - The information marked on the radiator shall be checked. (SASO 83/2008, section 4 requirements)	Major	Meet
	OBSERVATION: -No visual defects were found on samples. - "Made in China" and "0.9 MPA" were marked on sample. ACTION: N/A			
2	Leakage Test	- The water outlet pipe and the upper and lower tanks shall be tightly sealed and the pressure cap replaced by a normal close fitting cap (without pressure valve). - The inlet water pipe shall be connected to an air supply source at a pressure of 150 kPa (about 1.5 kg/cm²). - The radiator shall be immersed in water and subjected to pressure for a period of not less than 30 seconds and any leakage observed. (SASO 83/2008, section 6 requirements)	Major	Meet
	OBSERVATION: No leakage was found during test. Test setup  ACTION: N/A			
3	Corrosion Resistance Test	The radiator shall be exposed from both sides to a (5 ± 1%) (by weight) salt water spray for 4 days and allowed to stand for drying out in a room at a temperature of 23 ± 2°C and 60 ± 10% relative humidity, for 14 days. The radiator shall then be subjected to a hydraulic pressure of 100 kPa (nearly 1.0 kg/cm ²) and any leakage observed. (SASO 83/2008, section 5 requirements)	Major	Meet

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<u>OBSERVATION:</u> Sample was tested following required procedures. No leakage was found. Test setup  After test  <u>ACTION:</u> N/A				
4	Vibration Test	The radiator shall be fixed as in normal use, and subjected to vibration up and down in the actual state of attachment to the vehicle at 3 G, and 3 mm span for one million times. It shall then be checked to ensure the soundness of all its parts. (SASO 83/2008, section 8 requirements)	Major	Meet
<u>OBSERVATION:</u> After the vibration test, no damage or looseness of parts were found. <u>Test setup</u>  <u>ACTION:</u> N/A				
5	Labelling	In a prominent place on each radiator the following information shall be legibly and indelibly marked in Arabic or English language. 1 Manufacturer's name, and/or his trade-mark. 2 Country of origin. 3 The pressure at which the cap valve opens. (SASO 82/2008, section 5 requirements)	Major	Meet
<u>OBSERVATION:</u> Required markings were found on sample.				

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Requirement	Finding
Manufacturer's name, and/or his trade-mark	"KINGA" was marked on sample.
Country of origin	"Made in China" was marked on sample.
The pressure at which the cap valve opens	"0.9 MPA" was marked on sample.




ACTION: N/A

The End of Report

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