

Test Report

Report Number: 150490SHJ-AMQS

Applicant Name: Guangzhou Kinga Autoparts Industry Manufacture
Co., Ltd

Report Date: May 8th, 2015

Applicant Address: 16-17,1C/F No.45 YongFu Rd Guangzhou Guangdong,P.R.C

Attn: Mr. Allan Xu

Sample Description:

Product: Auto Radiator
 Model: RA-01
 Samples Quantity: 3 pieces
 Sample ID: N/A
 Date Received: Apr. 10th, 2015
 Date Test Conducted: Apr. 13th, 2015 – May 6th, 2015
 *Trademark: N/A
 *Rated capacity: N/A
 *Size/color: Black frame
 Test address different from lab address (if existed) : N/A



Received sample

Tested sample (if necessary)
 Please refer to attached pages.

Tests Conducted:

Test protocol/standard: SASO 82/2008, SASO 83/2008
 SASO 2278/2011

Test duration: Apr. 13th, 2015 – May 6th, 2015

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:

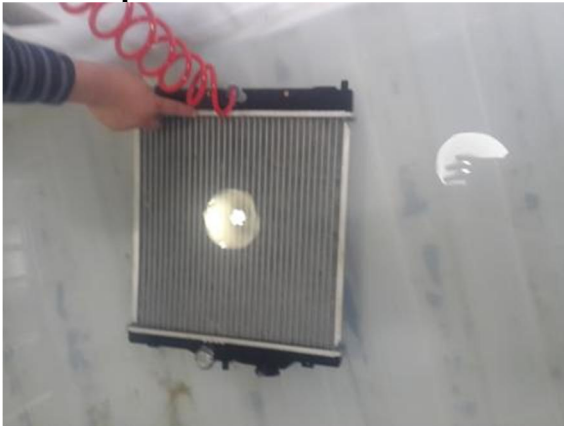
Oliver Hu
Test Engineer



Test Report

Report Number: 150490SHJ-AMQS

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  Pressure reading (22 PSI, 150 kPa) 				
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 ± 2oC 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

Test Report

Report Number: 150490SHJ-AMQS

	<u>OBSERVATION:</u> Sample was tested following required procedures. No leakage was found.											
	<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.												
Test setup												
												
	<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.												
<table><tr><th>Requirement</th><th>Finding</th></tr><tr><td>Manufacturer's name, and/or his trade-mark</td><td>"KINGA" was marked on sample.</td></tr><tr><td>Country of origin</td><td>"Made in China" was marked on sample.</td></tr><tr><td>The pressure at which the cap valve opens</td><td>"0.9 MPA" was marked on sample.</td></tr></table>					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.
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.											

Test Report

Report Number: 150490SHJ-AMQS

**ACTION:** N/A

The End of Report

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.