KES

Standard Evaluation of Dependence in Radiator

KES T – I410

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1. Scope of Application

This standard shall regulate the radiator for automobile engine.

2. Purpose

The Purpose of this standard shall provide methods in valuating of dependence in radiator to increase the designing qualities of motor from the beginning of mass production and development.

3. Shape

Depends on types of car and difference in layout, the shape may vary.

4. Continuance test on high temperature

(1) Condition for test

Ambient temperature : 130℃

Time : Leave for 400Hr

(2) Standard for evaluation

No water leakage on positive pressure at 1.6 kg/㎠.

5. Continuance test on low temperature

(1) Condition for test

Ambient temperature : -40℃

Time : Leave for 22Hr

(2) Standard for evaluation

No water leakage on positive pressure at 1.6 kg/㎠.

6. Pressurization Test

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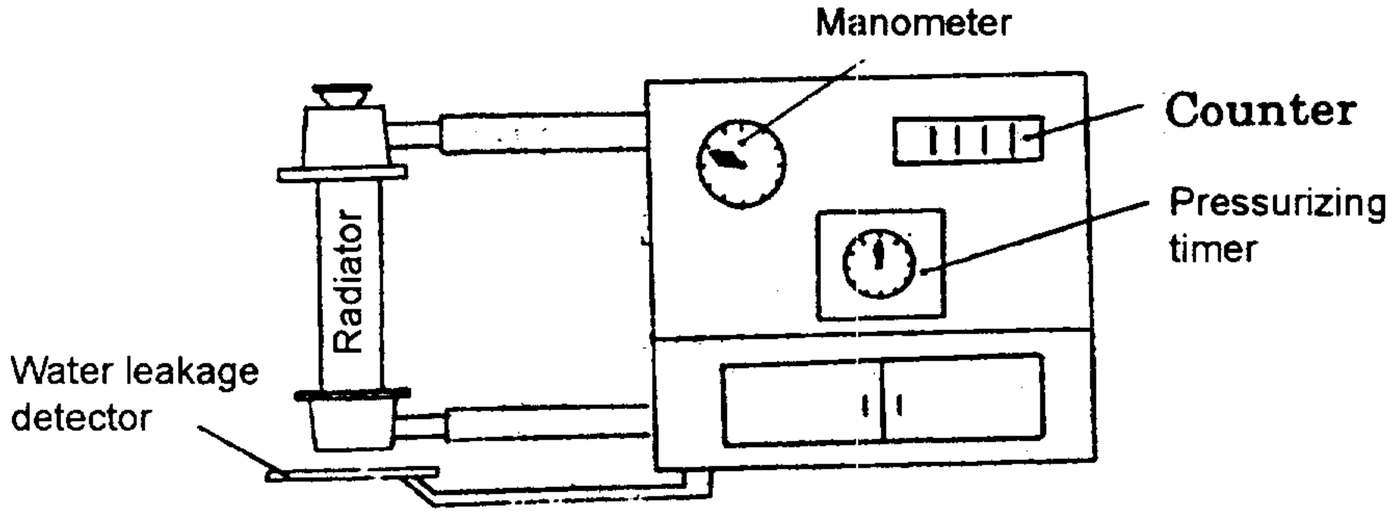
(1) Purpose : To check the endurance of input pressure of vehicles that have been used for 8-years or driven more than 100,000 ㎞.

(2) Figure



(3) Condition for test

Ambient temperature : Normal temperature

Circulating water point of temperature : Above 90℃

Pressure strength : 0~1.5 ㎏/㎠

Pressure rate : 12times/min.

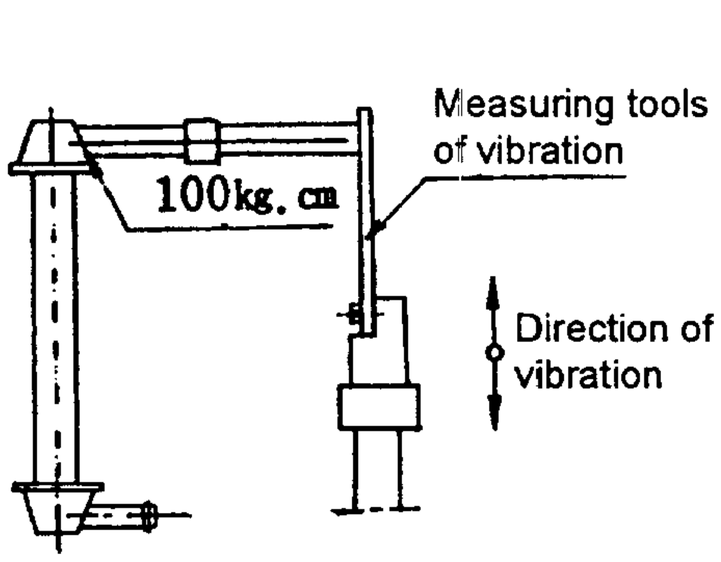
(4) Standard for evaluation

No water leakage after testing cycles of 50,000 times.

7. Pipe Endurance Test

(1) Purpose : To check endurance around radiator pipe when it gains weighs from attached water hose while car is moving.

(2) Figure



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