KES

Power Steering High Temperature Holding Test

KES T – I 124

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1. Scope of Application

This shall be applied to a power steering gear of a rack and pinion type for a passenger car.

2. Purpose

The purpose of this standard shall be to specify a system and condition of a high temperature holding test for assuring the reliability of a power steering gear.

3. Evaluation Standard

(1) Keep the atmosphere and oil at the temperature of 150 ℃ for 100 hours and return it at the room temperature. The outer leakage should not exist when the input pressure is a relief pressure. (generally, 70 kg/cm^2)

(2) Keep the atmosphere and oil at the temperature of 150 ℃ for 100 hours and return it at the room temperature. The inner leakage should be less than 1.0 l/min.

4 Test Condition

(1) Keep the atmosphere and oil at the temperature of 150 ℃.

(2) The operating oil should be ATF.

5. Test Method

(1) Keep the power steering gear at the temperature of 150 ℃ for 100 hours in a high temperature chamber with oil full.

(2) At the finish condition of the (1) clause, return it at the room temperature and press a relief pressure. Then, measure the outer and inner leakages.

Supplementary Provision

This shall be enacted from the data of an establishment and revision.

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