KES

Gear Durability Strength
Test for FR 4*4 T/M Gear

KES T – F007

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1. Scope of Application

This shall be applied to the entire manual transmissions equipped with 4 × 4 transmission.

2. Test Purpose

This shall be for the purpose of evaluating the trustworthiness of gears in the manual transmission equipped with 4 × 4 transmission and acquiring the damage distribution of each gear.

3. Test Preparation

3.1 Preparation of equipment and tool

(1) Mission fixing table

(2) Transmission boss section

(3) Propeller shaft or drive shaft

3.2 Preparation of test sample

(1) The test sample should be transmission complete.

(2) Use the gear fatigue tester for power unit.

(3) Fix the safety guard to the fixing part of the mission.

(4) Connect the regulated cooling unit.

(5) Set up the thermocouple to measure the temperature in the case of the transmission and transfer.
(Including the extension housing)

(6) Inject the designated amount of oil.

(7) At the high gear of the mission, perform the preliminary test by rotating the T/F for 5 minutes at the input torque of 50% of each engine torque (Te) in the high range and low range of the T/F case and at the nominal input speed of 1000rpm.

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