

KES

Test Method for Oils of
Corrosiveness in
a Bi-Metal Couple

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1. pe of Application

This procedure shall specify the test method for corrosion by chemical or electrochemical effect on bi-metal coupling of lubricant. Bi-metal coupling is composed of steel plate with lubrication surface with insertion of brass piece. Observation shall take place after the coupling is stored in humid place for 10 minutes.

2. Sample

Approximately 2 gr of petroleum product will be used.

3. Apparatus

3.1 Humid Room

26.7 °C and 50 % of relative humidity

3.2 Microscope

Magnification of 1000 times

3.3 Desiccator

3.4 Glass Stick

4. Materials

4.1 3 Steel Pieces

Steel of (QQ-S ~ 624 Composition E 52100) heat treated so that Rockwell strength of C~62 and about 13 mm thick and diameter of 26.5 mm. Manual or mechanical polishing of one side of the steel piece is not necessary for each test (refer to 5.1).

4.2 3 Inserting Piece