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Evaluating the Corrosion Inhibition Offered to Submitted Brake Kits

Background: Customer submitted 3 brake kits to Cortec Corporation. Each brake kit was enclosed in a corrugated cardboard box. A comparison between Cortec VpCI-126 film and protection offered by clear polymer bag with desiccant is sought, when packaging of brake kits.

Purpose: Evaluate the corrosion inhibition offered to the three brake kits, by the different packaging arrangements.

Method: ASTM D 1748-83 (~ 130 deg F, ~ 100% R.H.)

Materials: Brake kit enclosed within cardboard box
 Brake kit and desiccant pack, enclosed within clear polymer bag, of which is enclosed in cardboard box.
 Brake kit enclosed within 4 mil, Cortec VpCI-126 bag, of which is contained in a cardboard box

Procedure: The above tests were performed according to standard procedures for each.

Results: ASTM D 1748-83 (~ 130 deg F, ~ 100% R.H.)

Material	Results
Brake kit enclosed within cardboard box	After one day, the first observance of rust, but only slight pin points of rust. After three days, significant rust observed
Brake kit and desiccant pack, enclosed within clear polymer bag, of which is enclosed in cardboard box.	After 3 days, slight pin points of rust. After four days, significant rust observed.
Brake kit enclosed within 4 mil, Cortec VpCI-126 bag, of which is contained in a cardboard box	After 8 days, a few slight pin points of rust observed.

Photos enclosed

Conclusion: Brake kit enclosed within Cortec VpCI-126 film provides more than twice the length of corrosion inhibition, as with clear polymer bag and desiccant.

Project #: 04-016-1125





Clear Film/Desiccant



Clear Film/Desiccant



Clear Film/Desiccant



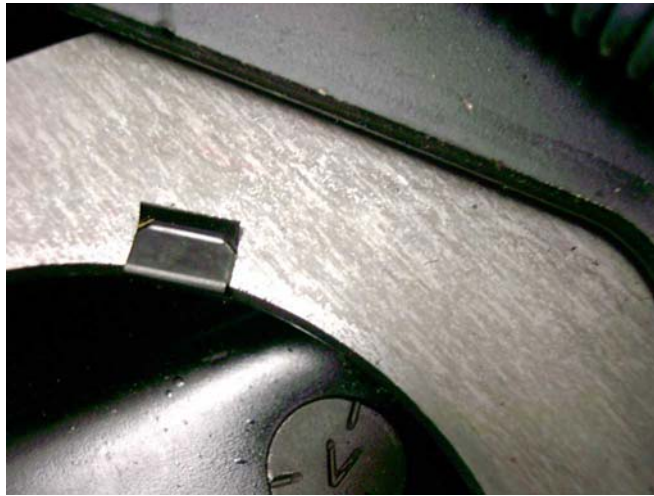
Clear Film/Desiccant



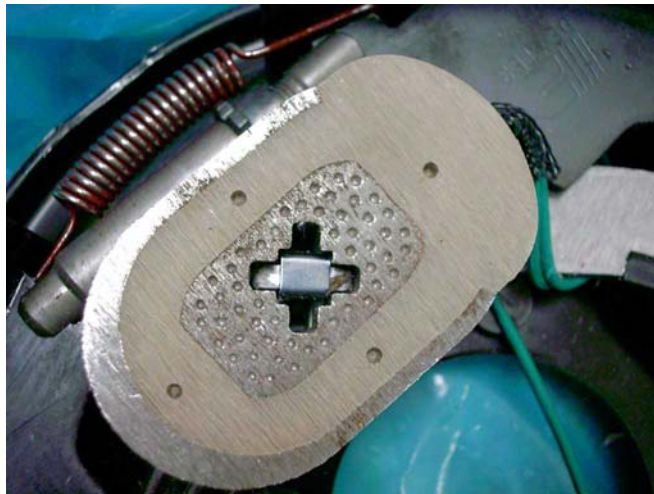
Clear Film/Desiccant



Clear Film/Desiccant



Cortec VpCI-126 Film



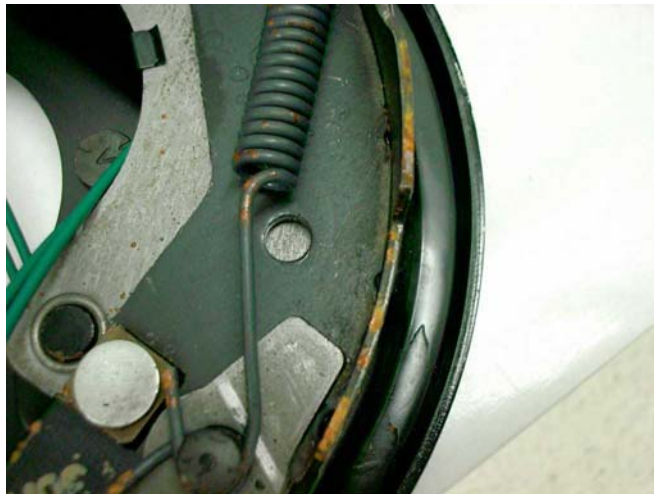
Cortec VpCI-126 Film



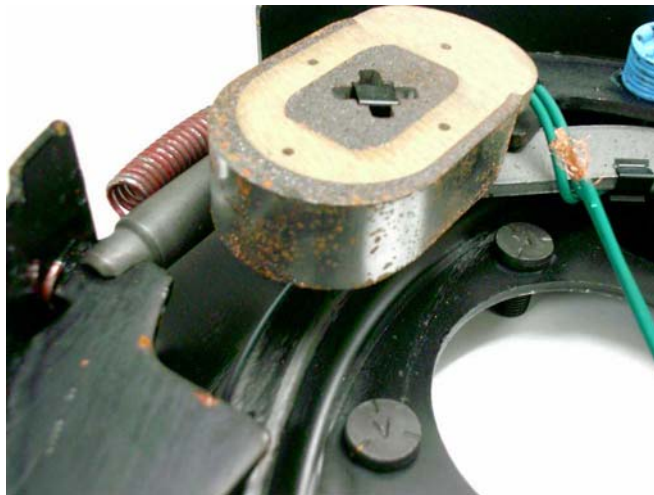
Cortec VpCI-126 Film



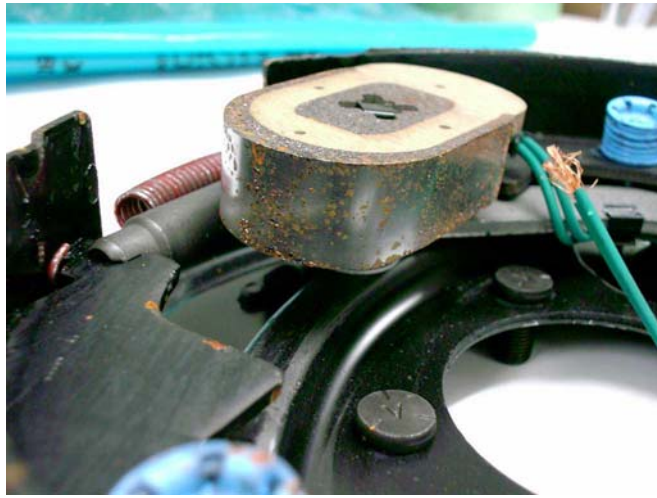
Cortec VpCI-126 Film



Control



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