

APPLIED SCIENCE AND TECHNOLOGY LABORATORY
MATERIALS AND PROCESSES
TEST REPORT

CLAS 11

TO: AM Stone
AP1-234A

DATE: March 4, 1982

LAB REPORT NO. CA-2-060

SUBJECT: Friction Materials from Competitive Washers

BACKGROUND:

CPSC is getting ready to resume examination of some consumer products containing asbestos. Nine samples of friction materials from four competitors washing machines are to be examined for asbestos content.

REQUEST:

1. Determine if asbestos is present.
2. If asbestos is present, determine resin/asbestos/other filler concentrations.

IDENTIFICATION:

Friction materials submitted for asbestos analysis are as follows:

Sample # - Whirlpool LA5800XK - Received 10/81

1. Shifter button
2. Clutch lining
3. Brake lining

- Wards 6431 - Received 1/17/82

4. Node dumping material
5. Basket brake (coarse woven material)

- Kenmore 11611 Received 1/17/82

6. Tub damper material (pad, base 62602)
7. Clutch lining
8. Brake lining

- Speed Queen HA7001 - Received 10/12/81

9. Brake

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NOTEBOOK REFERENCE: 20519, CA-1-009,
CRD-79-144

CHARGE NO: 113-306-536(B/11)

TEST BY: AF ROSENBERG/WA BAKER

REPORT BY: WA BAKER W g See

APPROVED BY: AF ROSENBERG

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CONCLUSIONS:

Samples numbered 2, 3, 5, 8, and 9 contain asbestos. The others are asbestos free per CAI-189. Compositions of the asbestos containing friction materials are listed in the table below.

<u>Sample #</u>	<u>% Organics & H₂O</u>	<u>Inorganics</u>
2	59	balance asbestos
3	58	balance asbestos
5	37	approximately 45% asbestos, 18% brass
8	49.5	approximately 40% asbestos, balance mineral filler
9	48	approximately 47% asbestos, 5% brass

ANALYSIS:

Friction materials examined by XRD and microscopy. Asbestos containing materials examined by TGA, XRD, microscopy, and gravimetric methods.