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EXAMINATION OF FILTERS FROM
SARATOGA, PANTON AND MONTCLAIR CIGARETTES

LABORATORY REPORT NO. L.112-R

3.2.1964.

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PROJECT NO. 3400

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100096043

21st. January 1964.

EXAMINATION OF FILTERS FROM
SARATOGA, PAXTON AND MONTCLAIR CIGARETTES

(Laboratory Report No.L.112-R)

SUMMARY & CONCLUSIONS

Dual filters from three cigarette brands - "Saratoga", "Paxton" and "Montclair" - have been examined on two counts:-

1. Presence of such additives as triacetin, polyethylene glycol and charcoal.

2. The filtration efficiency for tar, nicotine, steam volatile phenols and acids and for aliphatic aldehydes.

1. The triacetin contained in all the filters ranged from 4-8% and the charcoal content of the paper sections in the Montclair and Saratoga filters was 4-5%. Polyethylene glycol could not be detected on the cellulose acetate section of the Saratoga filter. Due to the presence of menthol, which interfered with the analysis, it was not possible to conclude with certainty that polyethylene glycol is ^{NOT} present on Montclair or Paxton filters.

2. (a) The filtration efficiencies of the Saratoga and Paxton filters are approximately equivalent to that of the same length of plasticised cellulose sec. acetate of denier specification 5/100,000.

(b) The filtration efficiencies of the Montclair filter for tar, nicotine, phenols and acids are similar to that of an equivalent length of plasticised cellulose sec. acetate, of denier specification 5/90,000.

(c) The filtration efficiency of the Montclair filter for aliphatic aldehydes is significantly higher than that of cellulose acetate and is probably due to the charcoal-impregnated paper. Saratoga filters apparently contain a comparable quantity of charcoal, but have a lower aldehyde filtration efficiency.

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