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**ANALYSIS OF THE FILTER WASH AND NEW DIAGNOSTIC PARAMETERS**

(pp. 45–53)

**Annotation.** New diagnostic parameters are suggested to analyze the filter wash samples from the results of scintillation measurements for estimation of technical state of aviation engines. The use of the existing set of the filter wash samples from 39 turbo-jet engines with confirmed defects allows to estimate reliability of suggested method, in particular, for unit diagnostics. We suggest also new method for estimation of parameters from observation of the part of distribution, which improves the diagnostics reliability with use of the rare multi-element wear particle

**Keywords:** diagnostics, turbo-jet engines, scintillation analysis, filter wash, multi-element wear particle

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