

# POST TEST INSPECTION OF LUBRICANTS – GUIDELINES AND LESSONS LEARNT

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## ABSTRACT

For a mechanisms development / qualification campaign to be successful, ECSS mandates a post-test assessment and health check of the tribological surfaces. However, the defined success criteria are somewhat non-quantifiable and require a degree of subjectivity in their assessment. This paper discusses the common failure modes of space mechanism lubricants and presents experimentally verified techniques for health assessments of these lubricants, providing guidance and support to the mechanism engineer, enabling more objective post-test inspections.

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Link to full paper will be become available during ESMATS 2025....