

# DEFECT TREND ANALYSIS FOR A MILITARY TURBOJET ENGINE: CASE STUDIES

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## Abstract

*Turbojet engines are currently used for military applications under training and combat modes. Their operation at extreme conditions often unscheduled with need based throttle excursions lead to high cyclic stresses on engine components and unusual demands on line replaceable units and accessories. As a result, a number of engines are forced for premature withdrawal from service affecting the flight schedule of the operator. This present paper presents the trend analysis of various defects encountered in a military turbojet engine and its accessories. This analysis will help in identifying the probable causes of the defects, time of engine withdrawal and whether they are of reoccurring nature or isolated case so that corrective action can be initiated to avoid such snags in future.*

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