

TESTING THE RELIABILITY OF FUEL DISTRIBUTION TRUCKS USING SURVIVAL ANALYSIS

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ABSTRACT

In recent events, fuel supply and distribution has proven to be a large contributor to the success or failure of a military operation in response to a contingency. Any future near-peer conflict will stress the logistics supply chain and require fully operational vehicles to be ready and fulfill primary mission sets they support. Reliability of the fuel distribution trucks is crucial to meeting those mission sets in aerial operations globally. Utilizing the historical maintenance logs, including failure and non-failure data, to perform survival analyses of the fuel distribution trucks may assist in further improving the readiness rates of the fleet.

Keywords: survival analysis, reliability, maintenance, refueling trucks