Lockheed Martin.
Your Mission is Ours.®

ANALYTICS SERVICES

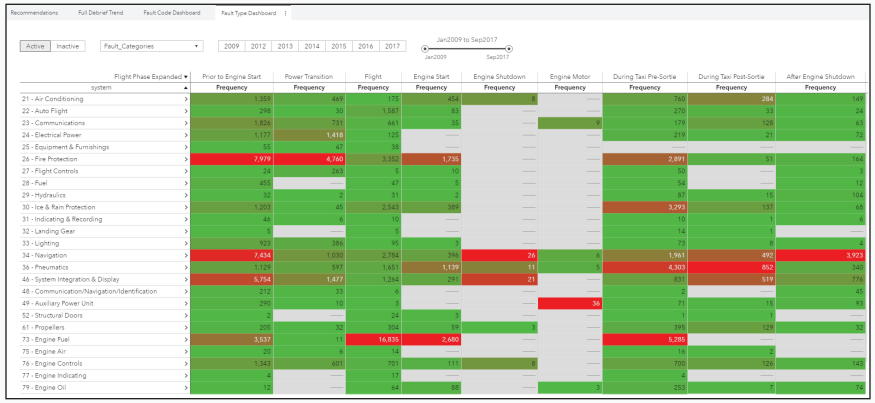
LOCKHEED MARTIN

20-14996-009
PIRA# AER201909033

Analytics Services

Lockheed Martin is offering a range of data analytics services to C-130 operators designed to enhance overall fleet operations by improving readiness and reducing costs.

Intelligent Diagnostics
Coupling Machine Learning techniques with Lockheed Martin's C-130J's OEM system knowledge and experience, Intelligent Diagnostics (ID) improves Aircraft Availability and Mission Capable Rate by reducing flight line fault isolation time, unnecessary maintenance, and No Fault Found rates. Intelligent diagnostics uses predictive analytics to suggest which Fault Codes (FC) need to be investigated and which could be monitored during subsequent flights. Detailed FC trending and analysis are provided to the user to support and confirm decisions. Additionally, ID automatically sentences 80% of all Nuisance Faults.

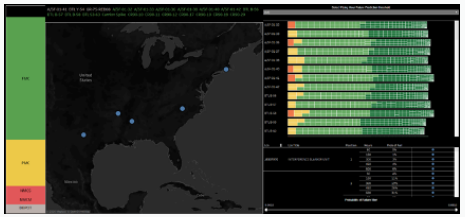


Intelligent Diagnostics Fault Trend by Flight Phase

On base trials are in progress and can now be scheduled. Orders for Intelligent Diagnostics can be taken now, with a three month turnaround for deployment.

Estimated Aircraft Availability Benefit: 1.06%

Fleet Health Monitoring
Using in-depth analyses of maintenance, sensor, flight profile and repair data, our fleet management service provides operations/maintenance decision makers unprecedented insight into system health at the fleet, aircraft, system, subsystem and line replaceable unit (LRU) levels. Combining the probability of failure information and a range of tailorable attributes, this service provides actionable information for efficient and cost-effective fleet management.



Fleet Health Management Dashboard

Estimated Aircraft Availability Benefit: 2.00%

Spare Optimization—Just-In-Time Sparing
Leveraging LRU probability of failure data, sensor and operations data, Lockheed Martin Spares Optimization services improves readiness and reduces costs by providing the actionable information that results in the correct number of spares in the correct locations to support worldwide fleet operations.

LRU-Level Analysis

Scheduled Maintenance Optimization
Through the use of optimization algorithms, Lockheed Martin Scheduled Maintenance Optimization service improves the sequence of individual tasks within a scheduled maintenance event, as well as the overall flow of scheduled events for an individual or fleet of aircraft to minimize total downtime for scheduled maintenance.

Contact Information:
AMMM Customer Support Center
(800) 952-6569 or +1 (770) 494-9131 hercules.support@lmco.com