

Aerometals

H60 IBF

Aerometals Design vs. Legacy Design

REV NC

03/17/2021

H-60 EIBF BACKGROUND

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U.S. ARMY SELECTS PALL PUREAIR DRY BARRIER FILTER ELEMENTS AGAIN FOR SIKORSKY UH-60 / S-70 BLACK HAWK ENGINE INLET BARRIER FILTER (EIBF) SYSTEMS

Press Release: Aerospace

SEP 28 WED

PRESS RELEASE

PORT WASHINGTON, N.Y., September 28, 2011 - Defense Logistics Agency (DLA) has awarded a contract to Pall Aerospace to supply 4,000 PUREAIR Dry Barrier Filters to replace the previous IBCG contract for 950 filters.

Pall PUREAIR Dry Barrier Filters provide a superior barrier filter. The durable, synthetic media cleans the air by using the inherent strength of the system from the filter, the PUREAIR Dry Barrier Filters experience corrosion or media degradation that can occur with other filter types.

The U.S. Army recognized the need for an improved filter in 2006, and Pall Aerospace specifically designed the PUREAIR Dry Barrier Filter to meet the Army's and Sikorsky's performance and protection requirements. The result is a weight savings of 10% and a 50% increase in filter life.

"This is the second consecutive DLA award for confirming the value this product provides to the Army and Sikorsky. Increasing aircraft availability, warfighter to carry out their mission safely and efficiently."

Donaldson | **SIKORSKY**

UH-60 Black Hawk Main Engine Barrier System

Part Numbers 107100-101 and 107100-103

When the need arose, Donaldson stepped up and rapidly developed a system to protect the main engines on the Army's battlefield workhorse. While meeting all the demanding design requirements dictated by the Army and Sikorsky Aircraft, design, test and initial production were completed in seven months.

The unique system utilizes existing MD 500 filters, is designed to withstand the large H-60 operating envelope and can sustain substantial bird strikes. Maintainability design being critical, the system is design to ease access to the filters, components and other aircraft subsystem. Sikorsky, the U.S. Army and Donaldson completed the program in record time, executed an expedited airworthiness program and went into immediate production to support operations in Iraq.



Sikorsky UH-60 Black Hawk Main Engine Filter System
Part Numbers 10711-101 and 107100-103



H-60 EIBF HISTORY

In 1991 at the request of the U.S Army, Donaldson developed an IBF system for the UH-60 Blackhawk in a record 7 months. At the time, this met the demands of the U.S. Army, but the aggressive timeline didn't allow for an optimal design. More recently PALL has also been supplying spare filter elements for the Donaldson System using dry media.

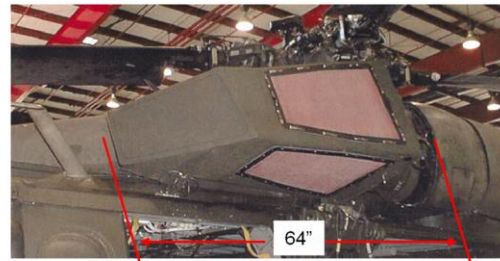
SYSTEM COMPARISON

Aerometals system has shown significant performance improvements compared to the Donaldson system (Legacy). While the filtration performance can be considered equivalent between the two systems, the Aerometals product removes all the negative aircraft level effects of the legacy system.

LEGACY



NET WT INCREASE = 172 LBS

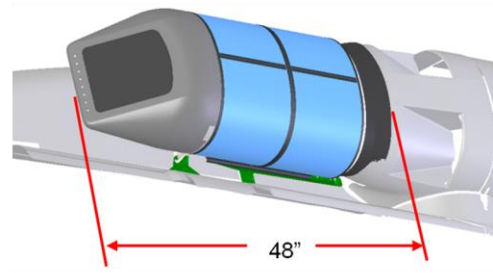


DRAG INCREASE = 10 FT²

AEROMETALS



NET WT INCREASE = 120 LBS



DRAG INCREASE = NEGLIGIBLE

AIRCRAFT PERFORMANCE **DELTA**

- OVER 50 LB WEIGHT SAVINGS
- NO IMPACT ON RAM AIR COOLING
- NO AIRSPEED CORRECTION CHARTS
- UP TO 40 LBS/HR FUEL BURN REDUCTION