

# EcoPower® Engine Wash Service

Efficient engine operation for lower fuel burn

## FLY FOKKER

### Introduction

Clean aircraft engines run more efficiently and so EcoPower® Engine Wash Service has developed a safe and environmentally-responsible solution. In conjunction with Rolls Royce, a major Fokker 70/100 operator, and Fokker Services, this solution has been tailored to the Fokker 70 and Fokker 100 aircraft.

### Your needs

Concern about global climate change, the current economic crisis and rising fuel prices have a direct effect on aircraft operators. Consequently, operators are exploring ways of reducing their aircraft carbon dioxide (CO2) emission footprint and operating costs by means of fuel savings against minimal capital investment. One way of reducing aircraft engine CO2 emissions is to operate aircraft engines more efficiently and so to reduce fuel burn. This will in turn reduce operating costs (DOC) and the financial burden resulting from the Emission Trading Scheme (ETS).

Clean engines lead to engine performance optimization as turbine gas temperature margin improves, resulting in longer time-on-wing revenue service and lower maintenance costs (DMC).

### Your benefits

Fokker Services is confident that the new engine wash method will help you to reduce fuel burn, CO2 emissions, and lower your operating and maintenance costs (DOC/DMC).

Summing up, the following benefits can be achieved:

- reduction in fuel burn of 1 –2%
- reduction of CO2 emissions
- improved engine performance
- enhanced TGT
- better N1 and N2 speed and stability margins
- increase of engine time-on-wing
- lower DOC/DMC
- no capital investment on special equipment
- no use of chemicals (detergents or solvents)

The process of cleaning aircraft engines with EcoPower® Engine Wash Service has been validated, it is substantially more effective than conventional washing methods and savings have been demonstrated on the RR Tay engine. This engine wash method is safe, environment friendly, cost effective and fast. It only takes approximately 60–90 minutes and has a high cleaning effectiveness.

To enable all Fokker 70 and Fokker 100 operators to benefit from this development, the aircraft maintenance documentation has been amended, introducing the new engine wash method.



### Product description

The EcoPower® Engine Wash Service is developed by Pratt & Whitney and uses a Global Service Partners network around the globe. The system is environmentally- friendly, since it is based on a closed-loop system using purified, atomized water without any need for detergents or solvents. During the cleaning process all the waste water is collected, purified and heated for re-use.

The service is based on a mobile platform so that, potentially, engine cleaning can take place on aircraft at the gate.

The Fokker 70/100 Aircraft Maintenance Manual provides the required handling procedures to enable operators to use the EcoPower® Engine Wash Service.



### FLYFokker for economic sense

The EcoPower® Engine Wash Service is a solution of FLYFokker, our full-service Life Cycle Support program. FLYFokker comprises four solutions: Take Off, Take Care, Take Over and Take Next.

Start-up operators can Take Off with their operation in six weeks instead of typically six months. For mature Fokker operators Take Care is a complete solution to increase Technical Dispatch Reliability (TDR), reduce Direct Operating Cost (DOC) and improve passenger comfort. Operators moving to other aircraft types are supported by Fokker Services in the Take Over of the continued competitive operation of their Fokker fleet. The fourth solution is a package for the mean and lean transfer of aircraft to the next operator, entitled Take Next. Using FLYFokker makes economic sense.

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