

SECTION 2 - ENGINE DESCRIPTION

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1. ENGINE INTRODUCTION

The engine has a two spool, axial flow, high bypass ratio configuration featuring:

- Single stage wide chord fan
- Ten stage HP compressor
- Annular combustor
- Two stage HP turbine
- Two stage LP turbine
- Full Authority Digital Engine Control (FADEC)

The basic engine is illustrated diagrammatically in Fig.1.

The low pressure shaft is supported by the No.1 thrust bearing, No.2 roller bearing and No.5 roller bearing. The high pressure shaft is supported by the No.3 thrust bearing and No.4 roller bearing. All bearings are damped.

The lubrication system is a full flow recirculatory oil system. Primary cooling of the oil is done by a fuel-oil heat exchanger.

2. ENGINE AIR FLOW

The output from the fan is divided into two separate flows.

One flow enters the HP compressor to be further compressed before entering the combustion section, where fuel is added and the resultant mixture ignited. The hot gas, expands through the HP and LP turbines before entering the multi-lobe mixer.

The other flow is directed through the bypass duct to mix with the turbine exhaust in a common nozzle.

The mixer produces a low velocity gas stream which expands through the common nozzle to atmosphere.

A portion of the core compressor air flow is used to cool certain parts of the engine and to pressurize oil seals, before being vented to atmosphere.

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IM Harris



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allgemeinen Energie und Verkehrstechnik Business and Commercial Aviation ,2008 Combustion Dans Les Turbomoteurs, Les Émissions Et Les Carburants de Remplacement North Atlantic Treaty Organization. Research and Technology Organization. Applied Vehicle Technology Panel. Symposium,1999 The symposium dealt with Gas Turbine Engine Combustion Emissions and Alternative Fuels Forty six papers and a Keynote Address elucidated the role of the combustion process as a crucial factor of engine performance and operability under various conditions including non standard new fuels and environmental effects of civil and military interest There were 12 Sessions covering the following topics some in 2 sessions 1 Gas Turbines in Land Sea and Air Applications 2 Low Emission Combustors 3 Combustion Modelling 4 Optical Measurements 5 Emissions 6 Combustor Design 7 Ignition Processes 8 Active Combustion Control and 9 Alternative Fuels

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