STANDARD AERO

Performance Summary

Engine Model	AE3007A1P	Customer	ALITALIA EXPRESS S.P.A.
Engine S/N	CAE312244	Fuel	JET-A
Shop Order	HGTZ1	Specific Gravity	0.809
TCN	EN674495	Lower Heat Value	18551
Run Number	1	Test Date	3/17/2008
Trim Resistor Part No.	23058854-4		

Predicted Engine Performance

		A1P TO RSV	A1P TO-1 A1/3 TO RSV	A1 TO-1	A1P ATO A1 ATO A1 MCO A1/3 MCO	A1 MCR	A1/1 TO-1	A3 TO-1	A1/1 ATO A1/1 MCO A3 MCO	A3 ATO	A1/3 TO	A1/3 A T/O-1
Specified N1	RPM	7811	7528	7528	7268	6758	7556	7408	7254	7128	7392	7154
Predicted Thrust	lbf	8571	7827	7827	7155	5869	7900	7516	7119	6798	7474	6864
Specified Min Thrust	lbf	8338	7580	7580	6864		7579	7201	6830	6536	7212	6567
Specified Max Thrust	lbf	8837	8035	8035			8034	7633				
Specified Max N2	RPM	15713	15497	15433			15641	15811				
Predicted N2	RPM	15541	15300	15300	15086	14687	15323	15200	15074	14973	15187	14994
% of Spec Max N2	%	98.9	98.7	99.1			98	96.1				
Specified TSFC	lbm/lbf/hr	0.439	0.436	0.436			0.436	0.434				
Predicted TSFC	lbm/lbf/hr	0.403	0.399	0.399			0.399	0.398				
%Delta Spec Max TSFC	lbm/lbf/hr	8.225	8.45	8.45			8.451	8.348				
Pre B7.5 FADEC Software:												
Predicted ITT	deg C	845	808	808	805	737	804	793	803	786	821	790
ITT Margin	deg C	13	16	16			39	85				
ITT Trim		48	48	48			57	48				
B7.5 or later FADEC Software:												
ITT (post B7.5)	deg C	823	786	786	805	737	762	770	803	786	821	790
ITT Margin (post B7.5)	deg C	36	38	38			80	107				
ITT Trim (post B7.5)		71	71	71			98	71				

Notes:
"*" Indicates parameter failed the performance limit for the rating.
"Z" Indicates no limit for this rating/parameter
"<" Indicates the maximum referred N1 speed was more than 50 rpm below the rating's N1 speed.

Operator JOSH FALLS (OA 99)

Inspector PAUL WOZNIAK (E 26)

Engine Tested IAW Manual Rolls-Royce EM (CSP31010) Rev 27

Revision Date 12/20/2007

Rolls-Royce Data Reduction Report

Sales Page was generated at 19:40:23 on 07/24/02
Using ae3007a1pprod Version: 1.10.1
Generated with: ae3007aprog version: 1.6.2

SERNO = 312244
MODEL = 3007A1
TSTAND = 114
TTLHV = 18541
API = 43.4
Resistor No = 23058854-4
Testid = 114_24Jul2002_Ap
Date (YYMMDD) = 020724
Time (HHMMSS.s) = 190608.0
Pamb (psia) = 14.43
T10avg (Deg F) = 82.3
NamePlate Thrust = 8338
NamePlate Rating = A1P

Prod/Field Return: Production
Memo No: PROD6681
FADEC Assy P/N: 23074001
FADEC A Serial No: BX56346
FADEC B Serial No: BX60047
Run Type: Final
Operator No. 1: ARNOLD
Operator No. 2: LAKE
NumPoints: 7
Npts Curfit: 5

Predicted Data		A1/1 TO-1	A3 TO-1	A1/1 ATO	A3 MCO	A3 A TO
N1 Fan Speed (rpm)	=	7556.0	7408.0	7254.0	7254.0	7131.0
Thrust (lbf)	=	7950.2	7559.4	7162.4	7162.4	6851.1
%Delta Spec Max Thrust	=	-1.0	-1.0	-1.1	-1.1	-1.2
%Delta Spec Min Thrust	=	4.9	5.0	4.9	4.9	4.7
N2 Speed (rpm)	=	15211.9	15092.5	14971.5	14971.5	14877.0
%Delta Spec Max N2 Speed	=	-3.9	-4.7	-3.2	-3.2	-3.3
TSFC (lb/h/lbf)	=	0.3879	0.3852	0.3828	0.3828	0.3813
%Delta Spec Max TSFC	=	-2.04	-2.48	-2.60	-2.60	-2.24
T4.5 (Deg F)	=	1407.5	1373.9	1338.4	1338.4	1310.0
Delta Spec Max T4.5	=	-75.5	-73.1	-73.6	-73.6	-76.0
T4.5 corrected to Resistor No 23058854-1						
GI N1 (rpm)	=	2148.6				
GI Thrust (lbf)	=	505.5				

* Indicates parameter failed the performance limit for the rating.

Vibration (Max Steady State Level)

	IPSPeak	/ rpm
FARVFF :	0.2966	/ 7901.0000
FARVGG :	0.7246	/ 10950

** Indicates vibration level does not meet limit.

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WO# EN674495 Date mar1808 Stamp 04

Rolls-Royce Data Reduction Report

Sales Page was generated at 19:40:23 on 07/24/02
Using ae3007a1pprod Version: 1.10.1
Generated with: ae3007aprog version: 1.6.2

SERNO	= 312244	Prod/Field Return:	Production
MODEL	= 3007A1	Memo No:	PROD6681
TSTAND	= 114	FADEC Assy P/N:	23074001
TTLHV	= 18541	FADEC A Serial No:	BX56346
API	= 43.4	FADEC B Serial No:	BX60047
Resistor No	= 23058854-4	Run Type:	Final
Testid	= 114_24Jul2002_Ap	Operator No. 1:	ARNOLD
Date (YYMMDD)	= 020724	Operator No. 2:	LAKE
Time (HHMMSS.s)	= 190608.0	NumPoints:	7
Pamb (psia)	= 14.43	Npts Curfit:	5
T10avg (Deg F)	= 82.3		
NamePlate Thrust	= 8338		
NamePlate Rating	= A1P		

Predicted Data		A1P TO	A1 TO-1	A1 ATO	A1 MCO	A1 MCR
N1 Fan Speed (rpm)	=	7811.0	7528.0	7268.0	7228.0	6758.0
Thrust (lbf)	=	8651.1	7875.5	7198.2	7096.3	5925.3
%Delta Spec Max Thrust	=	-2.1	-2.0	-1.1	-0.9	-2.1
%Delta Spec Min Thrust	=	3.8	3.9	4.9	5.0	3.8
N2 Speed (rpm)	=	15425.2	15189.0	14982.3	14951.3	14601.4
%Delta Spec Max N2 Speed	=	-0.7	-1.7	-1.6	-1.7	-1.5
%Delta Spec Min N2 Speed	=	1.5				
TSFC (lb/h/lbf)	=	0.3928	0.3879	0.3830	0.3823	0.3811
%Delta Spec Max TSFC	=	-1.56	-2.04	-2.55	-2.71	-2.29
%Delta Spec Min TSFC	=	3.64				
T4.5 (Deg F)	=	1478.8	1416.2	1356.6	1347.4	1240.1
Delta Spec Max T4.5	=	-26.2	-28.8	-30.4	-29.6	-43.9
Delta Spec Min T4.5	=	58.8				
T4.5 corrected to Resistor No 23058854-4						
GI N1 (rpm)	=	2148.6				
GI Thrust (lbf)	=	505.5				

* Indicates parameter failed the performance limit for the rating.

Vibration (Max Steady State Level)

	IPSPeak	/ rpm
FARVFF :	0.2966	/ 7901.0000
FARVGG :	0.7246	/ 10950

** Indicates vibration level does not meet limit.

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WO# EN674495 Date MAR 1808 Stamp AIO