



Performance Summary

Engine Model AE3007A1P Customer ALITALIA EXPRESS S.P.A.
 Engine S/N CAB312358 Fuel JET-A
 Shop Order HNDG3 Specific Gravity 0.8067
 TCN EN702029 Lower Heat Value 18530
 Run Number 1 Test Date 8/14/2008
 Trim Resistor Part No. 23058854-2

AP TO RSV	A1P TO-1	A1 TO-1	A1P ATO	A1 ATO	A1 MCO	A1/3 MCO	A3 TO-1	A1/1 ATO	A3 ATO	A1/3 TO	A1/3 A T/O-1
Specified N1	7811	7528	7268	6758	7556	7408	7254	7128	7392	7154	
Predicted Thrust	8565	7805	7129	5864	7879	7490	7093	6773	7448	6839	
Specified Min Thrust	8338	7580	6864		7579	7201	6830	6536	7212	6567	
Specified Max Thrust	8837	8035	8035		8034	7633					
Specified Max N2	15713	15497	15433		15641	15811					
Predicted N2	15491	15264	15060	14675	15286	15169	15049	14953	15157	14973	
% of Spec Max N2	98.6	98.5	98.9		97.7	95.9					
Specified TSFC	0.439	0.436			0.436						
Predicted TSFC	0.402	0.398			0.398						
%Delta Spec Max TSFC	8.383	8.757			8.758						
Pre B7.5 FADEC Software:	844	807	807	804	739	802	791	802	786	820	789
Predicted ITT	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C
ITT Margin	14	17			41	86					
ITT Trim	48	48			57	48					
B7.5 or later FADEC Software:	822	785	785	804	739	761	769	802	786	820	789
ITT (post B7.5)	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C	deg C
ITT Margin (post B7.5)	37	39			82	108					
ITT Trim (post B7.5)	71	71			98	71					

Notes:
 "X" 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
109

82M

CHAD MILLHOLLAND

Inspector PAUL WOZNAK

Rolls-Royce EM (CSP31010) Rev 29

4/20/2008

Engine Tested IAW Manual
Revision Date

Rolls-Royce Data Reduction Report

Sales Page was generated at 21:45:17 on 01/24/03
 Using ae3007a1prod Version: 1.10.1
 Generated with: ae3007aprog version: 1.6.2

SERNO = 312358
 MODEL = AE3007A1P
 TSTAND = 111
 TTLHV = 18496.8
 API = 44.1
 Resistor No = 23058854-2
 TestId = 111_24Jan2003_Bp
 Date (YYMMDD) = 030124
 Time (HHMMSS.s) = 210851.2
 Pamp (psia) = 14.56
 T10avg (Deg F) = 17.5
 NamePlate Thrust = 8338
 NamePlate Rating = A1P

Prod/Field Return: Production
 Memo No: 902 Rev E
 FADEC Assy P/N: 23074001
 FADEC A Serial No: BX59004
 FADEC B Serial No: BX60065
 Run Type: Final
 Operator No. 1: S.M.CLARKSON
 Operator No. 2:
 NumPoints: 10
 Npts Curfit: 8

Predicted Data		A1/1 T0-1		A3 T0-1		A1/1 ATO		A3 MCO		A3 A TO	
Thrust (lbf)	=	7897.3	7513.4	-1.6	4.3	7122.2	7122.2	-1.6	4.3	6816.1	-1.7
%Delta Spec Max Thrust	=	-1.7	4.2	-1.6	4.3	-1.6	4.3	-1.6	4.3	4.2	4.2
%Delta Spec Min Thrust	=	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2
N2 Speed (rpm)	=	15152.7	15044.5	-5.0	3.4	14933.5	14933.5	-3.4	3.4	14844.7	-3.5
%Delta Spec Max N2 Speed	=	-4.3	-5.0	-3.4	3.4	-3.4	3.4	-3.4	3.4	14844.7	-3.5
TSPC (lb/h/lbF)	=	0.3868	0.3842	0.3820	0.3820	0.3820	0.3820	0.3820	0.3820	0.3807	-2.40
%Delta Spec Max TSPC	=	-2.32	-2.74	-2.81	-2.81	-2.81	-2.81	-2.81	-2.81	0.3807	-2.40
T4.5 (Deg F)	=	1405.1	1370.7	-76.3	1335.4	1335.4	1335.4	-76.6	1335.4	1307.6	-78.4
Delta Spec Max T4.5	=	-77.9	-76.3	-76.6	-76.6	-76.6	-76.6	-76.6	-76.6	1307.6	-78.4
T4.5 corrected to Resistor No 23058854-1	=	2144.2	2144.2	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4
GI N1 (rpm)	=	2144.2	2144.2	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4
GI Thrust (lbF)	=	2144.2	2144.2	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4

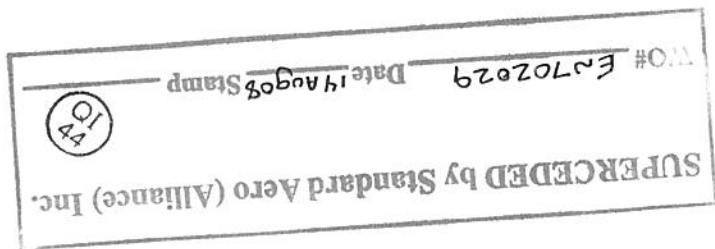
* Indicates parameter failed the performance limit for the rating.

Vibration (Max Steady State Level)

IPSPeak / rpm

FFV N1>6000 : 0.10 / 6170
 VGG N2>0 : 0.88 / 10149

** Indicates vibration level does not meet limit.



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 NamePlate Rating = A1P
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 Memo No: 902 Rev E
 FADEC Assy P/N: 23074001
 FADEC A Serial No: BX59004
 FADEC B Serial No: BX60065
 Run Type: Final
 Operator No. 1: S.M.CLARKSON
 Operator No. 2:
 NumPoints: 10
 Npts Curfit: 8

Predicted Data							
A1P TO	A1 TO-1	A1 ATO	A1 MCO	A1 MCR			
7811.0	7528.0	7268.0	7228.0	6758.0	N1 Fan Speed (rpm)	=	
8575.9	7824.1	7157.4	7057.0	5923.6	Thrust (lbf)	=	
-3.0	-2.6	-1.6	-1.5	-2.2	%Delta Spec Max Thrust	=	
2.9	3.2	4.3	4.4	3.7	%Delta Spec Min Thrust	=	
15346.8	15132.1	14943.6	14914.7	14565.6	N2 Speed (rpm)	=	
-1.2	-2.1	-1.9	-2.0	-1.7	%Delta Spec Max N2 Speed	=	
1.0					%Delta Spec Min N2 Speed	=	
0.3925	0.3868	0.3821	0.3816	0.3803	TSPC (lb/h/lbf)	=	
-1.63	-2.32	-2.76	-2.90	-2.50	%Delta Spec Max TSPC	=	
3.57					%Delta Spec Min TSPC	=	
1469.4	1403.6	1343.6	1334.5	1232.5	T4.5 (Deg F)	=	
-35.6	-41.4	-43.4	-42.5	-51.5	Delta Spec Max T4.5	=	
49.4					Delta Spec Min T4.5	=	
2144.2					GI N1 (rpm)	=	
479.4					GI Thrust (lbf)	=	

* Indicates parameter failed the performance limit for the rating.

Vibration (Max Steady State Level)

Ipspeak / rpm

FFV N1>6000 : 0.10 / 6170
 VGG N2>0 : 0.88 / 10149

** Indicates vibration level does not meet limit.

SUPERCEDED by Standard Aero (Alliance) Inc.

Date 14Aug09 Stamp

#EN702029

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