

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: D-30KU-154 BYPASS RATIO: 2.3 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1AA004 17 RATED OUTPUT $(F_{\circ\circ})$ (kN): 107.5 ENGINE TYPE: MTF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	53.1	292.8	40.4	-
AS % OF ORIGINAL LIMIT	270.9 %	248.1 %	54.5 %	#VALUE!
AS % OF CAEP/2 LIMIT (NOx)			68.2 %	
AS % OF CAEP/4 LIMIT (NOx)			87.4 %	
AS % OF CAEP/6 LIMIT (NOx)			99.3 %	
AS % OF CAEP/8 LIMIT (NOx)			127.0 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS) Х

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION (DATE: -)

OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	1.420	0.4	3	14.5	-
CLIMB OUT	85	2.2	1.100	0.5	3.6	11.6	_
APPROACH	30	4.0	0.420	1.9	18.2	5.1	_
IDLE	7	26.0	0.207	12.7	77.7	2.9	_
LTO TOTAL FUEL (kg) or EMISSIONS (g) 629			4389	27627	4000	-	
NUMBER OF ENGINES				2	2	2	-
NUMBER OF TESTS			2	2	2	_	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			40.8	257	36.7	_	
SIGMA (D_p/F_{oo} in g/kN , or SN)			5	21.8	2.5	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AΤ POWER SETTINGS STAGE BLEED % CORE FLOW POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	102.3-102.6
TEMPERATURE (K)	289 - 291
ABS HUMIDITY (kg/kg)	0.01119

MANUFACTURER: AO 'Aviadgatel'

State Inst for Civ Aviation TEST ORGANIZATION: TEST LOCATION:

Sheremetjevo, Moscow FROM 04 Jul 89

TEST DATES: TO

REMARKS

1. Data obtained on aircraft (Tu-154M) $\,$

2. In-service engine(s), tested before overhaul

FUEL

SPEC	TS-1
H/C	2
AROM (%)	18

If REVISED, this data supersedes databank UID Compliance with fuel venting requirements:

('x' if complies, PR if pre-regulation)