

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: NK-86A BYPASS RATIO: 1.13 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1KK004 13.2 RATED OUTPUT $(F_{\circ\circ})$ (kN): 130.47 ENGINE TYPE: MTF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	69.6	148.2	53.4	-
AS % OF ORIGINAL LIMIT	355.2 %	125.6 %	80.5 %	0.0 %
AS % OF CAEP/2 LIMIT (NOx)			100.6 %	
AS % OF CAEP/4 LIMIT (NOx)			133.2 %	
AS % OF CAEP/6 LIMIT (NOx)			151.4 %	
AS % OF CAEP/8 LIMIT (NOx)			201.8 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS) Х

NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

TEST 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	2.050	0.2	1.8	15.7	-
CLIMB OUT	85	2.2	1.700	0.2	2.2	12.4	_
APPROACH	30	4.0	0.600	2.2	7.8	5.8	_
IDLE	7	26.0	0.235	15.3	38	3.1	_
LTO TOTAL FUEL (kg) or EMISSIONS (g) 821			5988	15703	6106	-	
NUMBER OF ENGINES			1	1	1	-	
NUMBER OF TESTS			2	2	2	10	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			45.2	120.7	46.1	_	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	1	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	102.3
TEMPERATURE (K)	270
ABS HUMIDITY (kg/kg)	0.00238

MANUFACTURER: KKBM TEST ORGANIZATION: KKBM TEST LOCATION: Samara City

FROM 04 Oct 87 TEST DATES: TO

FUEL

SPEC	TS-1
H/C	2
AROM (%)	19

REMARKS

1. For Il-86 aircraft.

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

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

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