	TCDS NUMBER E10NE
	REVISION: 4 <sup>*</sup>
	DATE: March 23, 2007
U.S. DEPARTMENT OF TRANSPORTATION	
	WYTWORNIA SPRZETU
FEDERAL AVIATION ADMINISTRATION	KOMUNIKACYJNEGO (WSK)
	"PZL-KALISZ"
TYPE CERTIFICATE DATA SHEET E10NE	NOT THE
	MODELS:
	$\Lambda S_{7}$ 621D 16 $\Lambda S_{7}$ 621D M18/K0 DA
	ASz-62IR-16 ASz-62IR-M18/K9-BA ASz-62IR-M18 ASz-62IR-M18/K9-BB

Engines of models described herein conforming with this data sheet (which is part of Type Certificate Number E10NE) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations, provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

 

 TYPE CERTIFICATE (TC) HOLDER
 Wytwornia Sprzetu Komunikacyjnego "PZL-KALISZ" S.A.

ul. Czestochowska 140 62-800 Kalisz Poland

I. MODELS	ASz-62IR-16	ASz-62IR-M18	ASz-62IR-M18/K9-BA ASz-62IR-M18/K9-BB
ТҮРЕ	9RA, .687:1 reduction gears / clockwise rotation of crankshaft and propeller shaft (viewed from rear), single-speed supercharger.		
RATINGS			
Maximum continuous hp, r.p.m., in. Hg., at:			
Critical pressure altitude (ft.) Sea level pressure altitude	812-2100-35.4-4920 793-2100-35.4-S.L		954-2150-41.3-4920 917-2150-41.3-S.L.
Takeoff (5 min.) hp, r.p.m., in. Hg., at:			
Sea level pressure altitude	967-2200-41.3-S.L		1000-2200-45.2-S.L.
FUEL	Aviation gasoline		
Minimum grade aviation fuel	91 octane		
LUBRICATING OIL	Mineral aircraft engine oils with a nominal viscosity of 20 cSt at 100°C or 100 SUS at 210°F and a minimum viscosity index of 80. Also refer to the Installation Manual.		

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LEGEND: "--" INDICATES "SAME AS PRECEDING MODEL" "---" NOT APPLICABLE NOTICE: ALL PAGES ARE REFORMATTED. SIGNIFICANT CHANGES, IF ANY ARE BLACK-LINED IN THE LEFT MARGIN.

I. MODELS (Continued)	ASz-62IR-16	ASz-62-IR-M18	ASz-62IR-M18/K9-BA /K9-BB	
COMPRESSION				
Bore and stroke, in.	6.10 X 6.87			
Displacement, cu. in.	1823			
Compression ratio	6.4:1			
WEIGHT (Max.dry) (lb)	1302	1274	1280	
CENTER OF GRAVITY (in)				
Aft of cylinder centerline	0.75	0.55		
Above crankshaft centerline	0.45	0.51		
CRANKSHAFT DAMPERS	Two mobile counterweights, 4.5 order, on rear arm of crankshaft.			
PROPELLER SHAFT	Spline			
CARBURETION	AKM-62IRA			
FUEL PUMP	BNK-12BK			
IGNITION	Two BSM-9 or BSM-9F			
IGNITION TIMING, <sup>0</sup> BTDC	Magnetos			
Right	$20^{0} \pm 0.5^{0}$			
Left	$15^{0} \pm 0.5^{0}$			
SPARK PLUGS	Eighteen SD-48BSM or equivalent			
NOTES	1-3, 5-8	1-8	1-8	

FAR 21.29 and FAR 33, including amendments 1 through 6.

Type Certificate E10NE issued/revised:

51		Date of TC
Model	Date of Application	issued/revised
ASz-621R-16	02/02/79	12/16/80
ASz-621R-M18	02/02/79	12/16/80
ASz-62IR-M18/K9-BA	09/09/00	10/19/01
ASz-62IR-M18/K9-BB	09/09/00	10/19/01

The General Inspectorate of Civil Aviation of Poland originally type certificated this engine. The FAA validated this product under U.S. Type Certificate Number E10NE. Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of Poland.

PRODUCTION BASIS

CERTIFICATION BASIS

FAR 21.500 for production of engines or replacement parts under this type certificate by WSK "PZL-KALISZ" under control of the Republic of Poland General Inspectorate of Civil Aviation (GICA).

IMPORT REQUIREMENTS	To be considered eligible for installation on U.S. registered aircraft, each new engine to be exported to the United States with the General Inspectorate of Civil Aviation of
	Poland or EASA airworthiness approval shall have a Joint Aviation Authorities (JAA) or
	EASA Form 1, Authorized Release Certificate. The JAA or EASA Form 1 should state
	that the engine conforms to the type design approved under the U.S. Type Certificate
	E10NE, is in a condition for safe operation and has undergone a final operational check.
	Additional guidance is contained in FAA Advisory Circular 21-23, Airworthiness Certification of Civil Aircraft, Engines, Propellers, and Related Products, imported into the United States.

		NOTES		
NOTE 1.	Maximum permissible tempera <u>Cylinder head</u>	tures are as follows: <u>Oil Inlet</u>		
	475°F max. 15 minutes	203 <sup>o</sup> F max. 3 minutes for oil visco 185 <sup>o</sup> F max. 3 minutes for other o 167 <sup>o</sup> F no time limit		
NOTE 2.	Fuel and oil pressure limits			
	Fuel Pressure (psi)	Max	Min	
	at rated power	4.97	3.55	
	at idle		2.13	
	Oil pressure			
	at rated rpm	71.7	56.9	
	at idle		21.3	

NOTE 3.

The following accessory provisions are available:

ACCESSORY	ASz-62IR-16	ASz-62IR-M18 -M18/K9-BA and -M18/K9-BB	Rotation	Speed Ratio to Crankshaft	Maximum Torque ft. lb.	Maximum Overhang Moment ft. lb.
Starter RIM-U-24IR	Х	Х	CC	1:1	795	17.0
Magneto BSM-9 or BSM-9F	X	X	CC	1.125:1	2.21	2.93
Carburetor AKM-62IRA	Х	Х				
Fuel Pump BNK-12BK	Х	Х	CC	1:1	1.45	0.44
Oil Pump MSz-8M		Х	С	1.125:1	5.21	1.45
Oil Pump MSz-8A+filter	Х		С	1.125:1	7.09	9.40
Centrifugal filter TCM-25	Х		С	3.345:1	1.30	1.81
Propeller governor R-9SM2	Х	Х	CC	1.114:1	2.60	
Generator GSN-3000M	XX	XX	С	2.52:1	10.56	8.90
Piston Air Compressor AK-50P-12	XX		С	0.825:1	4.70	1.30
Hydraulic Pump PLT-2-3		XX	С	2.17:1	6.00	0.94
or LUN6102.01-8		XX	С	2.17:1	2.9	1.16
Hydraulic Pump PLTZ-15		XX	CC	1.78:1	43.40	4.12
Vacuum Pump 212CW		XX	CC	1.78:1	1.23	0.293

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NOTE 3.(continued)						
		ASz-62IR-M18 -M18/K9-BA and	Dest	Speed Ratio to	Maximum Torque	Maximum Overhang Moment
ACCESSORY	ASz-62IR-16	-M18/K9-BB	Rotation	Crankshaft	ft.lb.	ft.lb.
Hydraulic Pump PZ-5TC Hydraulic Pump 1P-582		XX XX /K9-BA only	C C	0.825:1 1.6986:1	 9.4	0.72 1.31
Vacuum Pump 3P-207		XX /K9-BA only	CC	1.787:1		1.13
	rive pad The ASz-62IR-M18,	-M18/K9-BA and -N	418/K9-BB (	do not include prov	visions for an o	il sump metal-
	hip detector.					
r	Ratings are based on to aircraft accessory apable of producting	drive loads. Produc	tion engines o	conforming with th	is type certifica	ate must be
NOTE 6.	Starter, aircraft accessories, propeller, and engine oil not included in engine wieght.					
	Time Between Overhaul (TBO) is presented in the GICA (CACA) - approved ASz-62IR engine manuals.					
NOTE 8.	SERVICE INFORM	ATION:				
E F	Each of the documents listed below must state that it is approved by the European Aviation Safety Agency (EASA) or, for approvals made before September 28, 2003 by the General Inspectorate of Civi Aviation of Poland. Any such documents including those approved under a delegated authority, are accepted by the FAA and are considered FAA approved.			ectorate of Civil		
	Service but	lletins,				
		repair manuals,				
	Vendor ma	,				
Aircraft flight manuals, and						

• Overhaul and maintenance manuals.

These approvals pertain to the type design only.

NOTE 9.	These models incorporate the following characteristics:			
	Model	Characteristics		
	ASz-62IR-16	Basic model which includes an electric metal chip detector in the oil sump.		
	ASz-62IR-M18	Similar to basic model except for the absence of the chip detector and cylinder head and inter-cylinder air deflectors, and modified accessory gearbox drives.		
	ASz-62IR-M18/K9-BB	Similar to basic model except for a power increase resulting from an increase of the supercharger drive ratio from 7:1 to 8.325:1, absence of the chip detector and cylinder head and inter-cylinder air deflectors, and modified accessory gearbox drives.		
	ASz-62IR-M18/K9-BA	Similar to K9-BB except for inclusion of cylinder head and inter- cylinder air deflectors and modified accessory gearbox that is adapted for hydraulic pump 1P-582 or vacuum pump 3P-207.		

---THE END----