

Australian Government Civil Aviation SafetyAuthority

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Type Certificate

Number: VA502 Issue 6

Pursuant to regulations 21.013A of the *Civil Aviation Safety Regulations 1998* this type certificate is issued in respect of the model SB7L-360A and SB7L-360A2 aircraft, manufactured by:

Seeker Aviation Australia Pty Ltd Don Adams Drive, Hervey Bay PO Box 7618 Urangan, QLD 4655 Australia

This certificate is valid until it is suspended or cancelled by the Civil Aviation Safety Authority. The basis of certification is as described in Type Certificate Data Sheet number VA502.



No	VA502
Revision	9
Aircraft	SB7L-360A
	SB7L-360A2
Date	10 May 2018

TYPE CERTIFICATE DATA SHEET

This data sheet, which is part of Type Certificate No. VA502, Issue 6, lists the conditions and operational limitations under which the aircraft for which the Type Certificate was issued meets the airworthiness requirements of the Civil Aviation Safety Authority.

Certificate Holder	Seeker Aviation Australia Pty Ltd Don Adams Drive, Hervey Bay PO Box 7618 Urangan, QLD 4655 Australia		
<u>Model SB7L-360A (Seek</u>	er) Normal Catego	ory - approved 24 January 1994.	
Engine	Textron Lycoming O-360-B2C.		
Maximum take-off power	Serial Numbers:	070010, 070011, 070012 and 070014 2500 rpm (No time limit).	
	Serial Numbers:	070009, and SA01100 and subsequent 2700 rpm (No time limit).	
Fuel	80/87 minimum grade aviation gasoline. Unleaded automotive gasoline.		
Oil	As specified in the latest revision of Textron Lycoming Service Instruction No. 1014.		
Propeller	Model: Diameter: Pitch: or Hoffman GmbH, Model: Diameter: Pitch:	1350 mm at 750 mm radius. wooden 2 blade fixed pitch pusher. HO44HM-177 138LD. 1770 mm. 1380 mm. throttle (both propellers): 00 rpm.	

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Air Speed Limits	Never exceed (VM Manoeuvring (VA) Max structural cru Max flaps extende) 107 uise (V _{NO}) 107	(KCAS) 133 105 105 93
Centre of Gravity	Forward Limit:	2251 mm aft of	datum at all weights.
	Aft Limit:	2362 aft of datu	um at 800 kg or less. um at 925 kg. ar between 800 kg and
Datum	2043 mm forward mm.	l of the wing lead	ling edge at butt line 2122
Levelling Means	Plumb bob from o centre mark on th member.	drilled bolt in coc ne forward under	kpit overhead bow to carriage bay cross
Maximum Weight	Take Off 925 kg Landing 925 kg		
Minimum Crew	One pilot.		
Number of Seats	Two. Pilot seat arms Passenger seat a	seat forward: seat aft: arms seat forward seat aft:	1286mm aft of datum. 1446mm aft of datum. d:1286mm aft of datum. 1646mm aft of datum.
Maximum Cargo	45 kg at 2090 mr	n aft of datum.	
Fuel Capacity		res (2 x 92 litre ta	l, 070012, 070014 anks at 2312 mean fuel
	subsequent.	tres (2 x 92 litre t	009, and SA01100 and anks at 2312 mean fuel
Refe	er to flight manual f	or fuel distributio	n weight and balance data.
Oil Capacity	7.5 litres.		

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Control Surface Deflections	Aileron	Up Down	112 mm ± 5 mm at the trailing edge. 74 mm ± 5mm at the trailing edge.	
	Elevator	Up Down	160 mm ± 5mm at the trailing edge. 83 mm ± at the trailing edge.	
	Elevator 1	ixed tabs	Trailing edge of tabs 40 to 50 mm below plane of elevator upper surface.	
	Rudder L	eft and Right	170 mm \pm 5 mm at the trailing edge.	
	Wing flap	s Retracted First Notch Full	0° ± 1° 1 20° ± 1° 40° ± 1°	
Operating Altitude	Maximun	n 15,000 feet .	AMSL.	
Crosswind Component	Maximun	n demonstrate	ed for take-off and landing 12 knots.	
Types of Operation	VFR, day Flight inte	v and night, or o known icing	IFR (see serial number eligibility). conditions is prohibited.	
Manoeuvres permitted	Non aerobatic manoeuvres as for normal flight including stalls (except whip stalls), chandelles, lazy eights and steep turns (angle of bank < 60°).			
	MANC Stalls Chanc Lazy e Steep	eights	ENTRY SPEED Slow deceleration 105 KIAS 105 KIAS 75 – 80 KIAS.	
Required Placards	Refer to	the approved	flight manual.	
Certification Basis Ser	Civil Avia	ation Order 10 nent 72 and F.	70012, 070014)1.22, Issue 4, up to and including AR 23 up to and including	
Sei	Amendn Amendn	ation Order 10 nent 72 and F nent 34 excep	01.22, Issue 4, up to and including AR 23 up to and including It that FAR 23.1307, 23.1326 and Iment 49, and 23.1557 is at Amdt 50.	

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FARs - 23.331, 23.445 and 23.1163 are at Amdt 42, - 23.993, 23.1103, 23.1147, 23.1193, 23.1322, 23.1385, 23.1387, 23.1389, 23.1391, 23.1393 and 23.1395 are at Amdt 43. - 23.251, 23.773, 23.1525, 23.1549 and 23.1557 are at Amdt 45. - 23.335, 23.371 and 23.572 are at Amdt 48, - 23.867, 23.1307, 23.1321, 23.1323, 23.1351, 23.1353, 23.1383 and 23.1401 are at Amdt 49, - 23.71, 23.145, 23.161, 23.201, 23.203, 23.1521, 23.1543, 23.1583, 23.1585, 23.1587 and 23.1589 are at Amdt 50, - 23.955, 23.1041, 23.1043, 23.1047, 23.1091, 23.1093, 23.1107, 23.1141, 23.1143, 23.1181, 23.1183, 23.1203 and 23.1337 are at Amdt 51, - 23.1305 is at Amdt 52, - 23,1308 is at Amdt 57. - 23.777, 23.853, 23.1301, 23.1303, 23.1309, 23.1310,

23.1311, 23.1331, 23.1431 and 23.1559 are at Amdt 62. 23.1326 is at CASA Special Condition A1326, and ELOS Seabird -1233/01 was determined for FAR 23.1337(b)(1). CASA document D16/112954 refers.

Type Design Data

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Serial numbers 070011, 070012, 070014:

- 1. Master Drawing List SB7L-360A, SBR02/10, Issue 1, dated 8 September 2005, including later approved changes.
- 2. SB7L-360A Pilot's Operating Handbook and CASA approved Flight Manual Document SBR 02/96, Issue 3, dated 30 April 2008 including later approved changes.
- 3. Maintenance Manual SB7L-360A, SBR05/04 Issue 1, dated 13 December 2004 including later approved changes.

Serial number 070010 (IFR approval):

- 1. Master Drawing List, SBR07/14 Issue 0, dated 13 July 2012.
- 2. SB7L-360A Pilot's Operating Handbook and CASA approved Flight Manual Document SBR 03/13, Issue 1, dated 11 April 2013 including later approved changes,
- 3. Maintenance Manual SB7L-360A, SBR04/13 Issue 1, dated 3 April 2013 including later approved changes.

Serial numbers 070009, and SA01100 and subsequent:

- 1. Master Drawing List, SBR07/14 Issue 3, dated 1 April 2016, including later approved changes.
- SB7L-360A Pilot's Operating Handbook and CASA approved Flight Manual Document SBR 28/15, dated 5 May 2016 including later approved changes.

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including later approved changes.

3. Maintenance Manual SB7L-360A, SBR29/15 Issue 1, dated 1 April 2016 including later approved changes.

070009, 070010, 070011, 070012, 070014. SA01100 and Serial Numbers Eligible subsequent.

CASA Production Certificate No. 417197, dated 25 **Production Basis** November 2003.

Compliance with ICAO Annex 16 Chapter 10 and FAR 36 **Noise Certification** Appendix G has been shown.

Model SB7L-360A2 (Seeker) Normal Category - approved 24 September 2013.

Textron Lycoming IO-390-A1A6. (S/N 070015) Engine Textron Lycoming IO-390-A1B6. (S/N SA02100 and subsequent) and the second sec Maximum take-off power 2700 rpm (No time limit). and the second sec Avgas 100LL (Blue) Fuel . HELLER (林田市) (1997) Avgas 100 (Green) (1)/fi/ (1)// 10-31-2-1 As specified in the latest revision of Textron Lycoming was beside Date Oil n an an Arrange an Arr Arrange an Ar Service Instruction No. 1014. Sec. 6 Seabird Aviation, wooden, 2 blade fixed pitch, pusher. Propeller Bishton BB177-70-55. Model: 1770 mm. In a gamples of the thread for service and service and Diameter: 1400 mm at 750 mm radius. Pitch: Static rpm at full throttle: 210 N.GC Maximum: 2450 rpm. Minimum: 2350 rpm. Ceded and and could be and

and the transferration of the start (KIAS) (KCAS) (K (KCAS) Air Speed Limits 107 105 E Star Manoeuvring (V_A) Max structural cruise (VNo) 107 105 Max flaps extended (VFE) 95 months 95 93 2274 mm aft of datum at all weights. Forward Limit: Centre of Gravity 2409 mm aft of datum at all weights. Aft Limit: 2043 mm forward of the wing leading edge at butt line 2122

Datum

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mm. MAC is 1200mm.

Levelling Means Plumb bob from drilled bolt in cockpit overhead bow to centre mark on the forward undercarriage bay cross member. Take Off 974 kg. Landing 925 kg.

Minimum Crew

One pilot.

Number of Seats

Two.

Pilot seat armsseat forward:1286 mm aft of datum.seat aft:1446 mm aft of datum.Passenger seat arms seat forward1286 mm aft of datum.seat aft:1646 mm aft of datum.

Maximum Cargo 45 kg at 2090 mm aft of datum.

Fuel Capacity

Serial Number: 070015 Total 184 litres (2 x 92 litre tanks at 2312 mean fuel arm). Usable 172 litres.

Serial Numbers: SA02100 and subsequent.

Total 184 litres (2 x 92 litre tanks at 2312 mean fuel arm). Usable 182 litres.

Refer to flight manual for fuel distribution weight and balance data.

Oil Capacity	7.6 litres.	•		
Control Surface Deflections	Aileron	Up Down		2 mm \pm 5 mm at the trailing edge. mm \pm 5mm at the trailing edge.
	Elevator	Up Down		0 mm ± 5mm at the trailing edge. mm ± at the trailing edge.
	Elevator f	ixed tabs		ailing edge of tabs 40 to 50 mm low plane of elevator upper surface.
	Rudder	Left and R	ight	170 mm ± 5 mm at the trailing edge.
	Wing flap	s Retracted First Noto Full	ch 2	0° ± 1° 20° ± 1° 40° ± 1°

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Operating Altitude	Maximum 15,000 feet AMSL.		
Crosswind Component	Maximum demonstrated for take-off and landing- 12 knots.		
Types of Operation	VFR, day and night, or IFR. Flight into known icing conditions is prohibited.		
Manoeuvres permitted	Non aerobatic manoeuvres as for normal flight including stalls (except whip stalls), chandelles, lazy eights and steep turns (angle of bank less than 60°).		
	MANOEUVREENTRY SStallsSlow decChandelles105 KIASLazy eights105 KIASSteep turns75 – 80 K	eleration	
Required Placards	Refer to the approved flight manual.		
Certification Basis Airo	 craft Serial Number: 070015 Civil Aviation Safety Regulations, Pa 2 February 2011, and FAR 23 up to and including Amendre FARs 23.71, 23.145, 23.161, 23.201 and 2 23.251 is at Amdt 45; 23.331 is at A 23.335 and 23.371 are at Amdt 48; 23.445 is at Amdt 42; 23.572 is at A 23.1041, 23.1043, 23.1047, 23.109 23.1041, 23.1043, 23.1047, 23.109 23.1107, 23.1141 and 23.1143 are 23.1147 is at Amdt 43; 23.1163 is a 23.1181 and 23.1183 are at Amdt 5 43; 23.1203 is at Amdt 51; 23.1305 is a 23.1307 is at Amdt 49; 23.1308 is a 23.1309, 23.1311, 23.1326 and 23 23.1351, 23.1353 and 23.1383 are 23.1387, 23.1389, 23.1391, 23.139 Amdt 43; 23.1401 and 23.1431 are at Amdt 4 50; 23.1525, 23.1549, 23.1585, 23.158 Amdt 50. 	ment 34, except that 23.203 are at Amdt 50; andt 42; andt 48; 1, 23.1093, 23.1103, at Amdt 51; at Amdt 51; at Amdt 42; 51; 23.1193 is at Amdt at Amdt 52; at Amdt 57; .1329 are at Amdt 49; at Amdt 51; at Amdt 51; at Amdt 51; at Amdt 49; 23.1385, 3 and 23.1395 are at 49; 23.1521 is at Amdt at Amdt 45; and	
Air	craft Serial Number: SA02100 and su	ıbsequent	

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- 23.993, 23.1103, 23.1147, 23.1193, 23.1322, 23.1385, 23.1387, 23.1389, 23.1391, 23.1393 and 23.1395 are at Amdt 43, - 23.251, 23.773, 23.1525, 23.1549 and 23.1557 are at Amdt 45. - 23.335, 23.371 and 23.572 are at Amdt 48, -23.867, 23.1307, 23.1321, 23.1323, 23.1351, 23.1353,23.1383 and 23.1401 are at Amdt 49, - 23.71, 23.145, 23.161, 23.201, 23.203, 23.1521, 23.1543, 23.1583, 23.1585, 23.1587 and 23.1589 are at Amdt 50, -23.955, 23.1041, 23.1043, 23.1047, 23.1091, 23.1093,23.1107, 23.1141, 23.1143, 23.1181, 23.1183, 23.1203 and 23.1337 are at Amdt 51. - 23.1305 is at Amdt 52, - 23.1308 is at Amdt 57, - 23.777, 23.853, 23.1301, 23.1303, 23.1309, 23.1310, 23.1311, 23.1331, 23.1431 and 23.1559 are at Amdt 62. 23.1326 is at CASA Special Condition A1326, and ELOS Seabird -1233/01 was determined for FAR 23.1337(b)(1). CASA document D16/112954 refers. Serial Number 070015 1. Master Drawing List SB7L-360A2, SBR07/14, Issue 1,

- 1. Master Drawing List SB7L-360A2, SBR07/14 , Issue 1, dated 22 July 2013, including later approved changes.
- 2. SB7L-360A2 *Pilot's Operating Handbook and CASA Approved Flight Manual* Document SBR 05/13, Issue 3, amended 27 August 2015, including later approved changes.
- 3. Maintenance Manual SB7L-360A2, SBR06/13 Issue 1, dated 24 September 2013, including later approved changes.

Serial Number SA02100 and subsequent.

- 1. Master Drawing List SB7L-360A2, SBR07/14, Issue 3, dated 1 April 2016, including later approved changes.
- SB7L-360A2 Pilot's Operating Handbook and CASA Approved Flight Manual Document SBR 30/15, dated 5 May 2016, including later approved changes.
- 3. SB7L-360A2 Maintenance Manual, SBR 31/15 Issue 1, dated 1 April 2016, including later approved changes.

Serial Numbers Eligible 070015, and SA02100 and subsequent.

Production Basis CASA Production Certificate No. 417197, dated 25 November 2003, as revised to include the A2 model.

Noise Certification

CAS402 Printed 11/2011

Type Design Data

Compliance with ICAO Annex 16 Chapter 10 and FAR 36

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Appendix G has been shown.

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	Noise Certification	Compliance with ICAO Annex 16 Chapter 10 and FAR 36 Appendix G has been shown.
	NOTES	
anata (1999) Secolaria	ана на селото на г	Service life limits for life limited parts are contained in the applicable nanufacturer's Maintenance Manuals, Chapter 4, Airworthiness _imitations.
	REVISION NOTE	S
		adds the Hoffman HO44HM-177 138LD propeller as an alternative propeller for the SB7L-360A model.
for state to the	Revision 3.	adds IFR approval for model SB7L-360A.
WALCH DAY	Revision 4.	adds new model SB7L-360A2.
upa deda kuru na u namena na na da na u	, da devine (s.g.), sitta - Lean (s.g.), sitta (s.g.), dis lo ¹ otto (s.g. 45, signa) t	corrects the document number for the -360A2 model flight manual. identifies type design data by a new MDL number, in a new format. MDL SBR07/14 Issue 1 consolidates SBR19/11 Revision 4 and SBR 20/13 Revision 1 into one document, and is a later revision of both of those MDLs. - adds noise compliance statement for model SB7L-360A2.
al position neolación neolación neolación neolación	i e e de legitor de la des e e e e toto e e la dese e e e tradector o de legitor	- amends SB7L-360A max engine RPM. - updates usable fuel in S/N 070009, SA01100, SA02100 and subsequent. - adds certification basis and type design data for SB7L-360A and SB7L-360A2 upgraded cockpit. - amends SB7L-360A and SB7L-360A2 eligible serial numbers. - updates SB7L-360A2 engine model number
English and the		- amends listed total fuel capacity of SB7L-360A and SB7L-360A2 models.
	Revision 8.	removed models SB7L-235, SB7L-360, & notes 2 to 6

the second second Revision 9. The Holder changed from Seabird Aviation Australia Pty Ltd to Seeker Aviation Australia Pty Ltd.

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