



European Aviation Safety Agency

EASA

**TYPE-CERTIFICATE
DATA SHEET**

No. EASA.A.068

**for
SAAB 340**

**Type Certificate Holder:
Saab AB, Aeronautics**

SE-581 88 Linköping
SWEDEN

Airworthiness Category: Large Aeroplanes

For Models: SAAB SF340A
SAAB 340B

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SECTION 1: SAAB SF340A

I. General

1. Type/ Model/ Variant: SAAB SF340A (See note 1.)
2. Performance Class: A
3. Certifying Authority: EASA
4. Manufacturer: Saab AB, Aeronautics
SE-581 88 Linköping
SWEDEN
5. Reference Application Date
for EASA Certification: 31 March 1980
6. EASA Type Certification Date:
Formerly LFV TC A 1/84
(remains a valid reference) 30 May 1984

II. Certification Basis

1. EASA Airworthiness Requirements

JAR 25 Change 7
JAR 25 Change 8 for paragraphs 25.305(d)
25.341(d)

2. Special Conditions

Special conditions in accordance with LFV Issue Book

Item B-2 Stall identification and recovery characteristics
Item B-4 Performance in Icing Conditions
Item B-5 All engines operating, Steep Approach Landing
Item B-7 Gravel runway operation
Item B-8 Takeoff and landing in tailwind greater than 10 knots
Item B-9 High altitude takeoff
Item C-3 Propeller blade impact NPA 25C-112 applies in lieu of JAR 25.571(e)(2)
Item C-5 Composite structure
Item F-1 Flight guidance system (basic system)
Item F-2 CAT II requirements
CRI H-01 Enhanced Airworthiness Programme for Airplane Systems – ICA on EWIS

3. Exemptions

No exemptions have been granted.

SECTION 1: SAAB SF340A - continued

4. Equivalent Safety Findings

Equivalent Safety Findings in accordance with LFV Issue Book

Item A-2	Oil quantity indicator	JAR 25.1551
Item A-3	Refuelling system, auto shut-off testing	JAR 25.979(b)(1)
Item A-5	Static system integrity	JAR 25.1333(c)
Item A-6	Stand-by compass system	JAR 25.1333(b)
Item A-7	AC system indication	JAR 25.1351(b)(6)
Item A-11	Exit handle illumination	JAR 25.811(e)(3)
CRI D-9	Improved Flammability Standards for Thermal Acoustic Insulation Materials used in Large Airplanes	JAR 25.853(a) and JAR 25.855(d)
Item E-1	Engine certification	JAR 25.903

5. Environmental Protection Standards

Noise: See TCDSN A.068

III. Technical Characteristics and Operational Limitations

1. Production Basis: Manufactured under Type Certificate
2. Type Design Definition: Defined by Type Specification 72PJ0006.
Drawings are defined in the Saab AB System List, Doc. No. 7200-0.
Type Record, Doc. No. 72CCS1091 and 72CCS2333
3. Description: A low wing, twin-engine turboprop aircraft equipped to carry up to 37 passengers and cargo in a pressurized cabin and intended for short to medium haul routes.
4. Equipment: Equipment is listed in the SAAB SF 340 Master Equipment Register, Doc. No. 72PWS0861

5. Dimensions

Span	21,44 m	(70 ft 4 in)
Length	19,73 m	(64 ft 9 in)
Height	6,97 m	(22 ft 11 in)
Wing Area	41.8 m ²	(450 ft ²)

6. Engines: 2 engines – General Electric Company, Model CT7-5A2, free turbine turboprop
Power turbine/propeller reduction gearing 15.9:1

SECTION 1: SAAB SF340A - continued

The maximum continuous and takeoff static sea level ratings at ISA:

	Shaft Horse Power		Jet Thrust		Torquemeter Reading
	(kW)	(SHP)	(N)	(lbf)	(%)
Takeoff	1 294	1 735	730	164	108
Max Cont.	1 193	1 600	667	150	100

7. Auxiliary Power Unit: none

8. Propellers: 2 propellers

Dowty Aerospace, Model
(c) R.354/4-123-F/13
(c) R.354/4-123-F/20
(c) R.375/4-123-F/21
(c) R.389/4-123-F/25
(c) R.389/4-123-F/26
(c) R.390/4-123-F/27

Blades: 4
Diameter: 3.35 m (132 in) – no reduction permitted.

9. Fluids (Fuel, Oil, Additives, Hydraulics) Jet A, Jet A-1, Jet B (ASTM D-1655), JP 4, JP 5 (MIL-T-5624), JP-8 (MIL-T-83133D), CIS fuels RT and TS-1 (GOST 10227).

In addition, all aviation gas turbine fuels conforming to the latest revision of GE Jet Fuel Specification No. D50TF2 for the GE CT7 engine installation are approved.

Location	Volume		Weight	
	Litres	U.S. Gal	kg	lb
Left wing	1 610	425	1 290	2 845
Right wing	1 610	425	1 290	2 845
Total Usable	3 220	850	2 580	5 690

Fuel weight based upon fuel density 0.802 kg/l (6.7 lb/U.S. Gal).
Pressure fuelling.
Max pressure for pressure fuelling is 345 kPa (50 psi).

10. Fluid Capacities: Refer to applicable approved manuals

11. Airspeed Limits: See Airplane Flight Manual

12. Maximum Operating Altitude: 7 620 m (25 000 ft) pressure altitude

13. All Weather Capability: Cat II

SECTION 1: SAAB SF340A - continued

14. Maximum Certified Masses:

Taxi	12 380 kg	(27 300 lb)	
	12 840 kg	(28 300 lb)	With Mod. No. 1531
	13 065 kg	(28 800 lb)	With Mod. No. 3139
Takeoff	12 370 kg	(27 275 lb)	
	12 700 kg	(28 000 lb)	With Mod. No. 1531
	12 930 kg	(28 500 lb)	With Mod. No. 3139
Landing	12 020 kg	(26 500 lb)	
	12 340 kg	(27 200 lb)	With Mod. No. 1531
Zero Fuel	11 340 kg	(25 200 lb)	
	11 660 kg	(25 700 lb)	See Note 2

15. Centre of Gravity Range: See Airplane Flight Manual

16. Mean Aerodynamic Chord: 2.08 m
(MAC)

17. Levelling Means: See Weight and Balance Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot)

19. Maximum Seating Capacity: 37 Passengers

20. Exits:

	Nr	Type	Size mm (inches)
Passenger door	1	Type I	0.69x1.60 m (27x63 in)
Service/ emergency door	1	Type II	0.61x1.22 m (24x48 in)
Emergency exits	2	Type III	0.51x0.91 m (20x36 in)
Crew hatch	1	-	0.48x0.50 m (19x19.7 in)

21. Baggage/Cargo Compartment:

Location	Maximum Baggage
Rear Cargo	950 kg (2 100 lb)

See Weight and Balance Manual.

22. Wheels and Tyres

Main wheel tyres: A 24 x 7.7
Nose wheel tyres: A 17.5 x 6.25-6

SECTION 1: SAAB SF340A - continued

IV. Operating and Servicing Instructions

1. Flight Manuals:

1.1 Airplane Flight Manuals:	Doc. No.
Standard version	AFM 340A 000
U.S. Type design version	AFM 340A 001
Australian Type design version	AFM 340A 003
Canadian Type design version	AFM 340A 005
1.2 Aircraft Operations Manual	72LKS3088
1.3 Weight and Balance Manual	72LKS3080
1.4 Master Minimum Equipment List (MMEL)	72LKS3091

2. Service Instructions:

2.1 EASA Airworthiness Directives	
Swedish Airworthiness Directives (SAD)	
2.2 Service Letter and Service Bulletins	
2.3 Available service documents:	Doc. No.
Aircraft Maintenance Manual	72LKS3076
Wiring Manual	72LKS3078
Structural Repair Manual	72LKS3079
Maintenance Review Board Report	72LKS3081
Illustrated Parts Catalogue	72LKS3077
Certification Maintenance requirement based on System Safety Assessment	72DSS0602

V. Notes

1. SAAB SF340A is same as SAAB-FAIRCHILD 340A
2. Weights valid when carrying passengers and/or passenger seats are used for cargo stowage in all passenger configuration or when carrying cargo configuration and centre of gravity is aft of or at 28% MAC.

SECTION 2: SAAB 340B

I. General

- | | |
|---|---|
| 1. Type/ Model/ Variant: | SAAB 340B |
| 2. Performance Class: | A |
| 3. Certifying Authority: | EASA |
| 4. Manufacturer: | Saab AB, Aeronautics
SE-581 88 Linköping
SWEDEN |
| 5. Reference Application Date
for EASA Certification: | 14 September 1987 |
| 6. EASA Type Certification Date:
Formerly LFV TC A 1/84
(remains a valid reference) | 03 July 1989 |

II. Certification Basis

1. EASA Airworthiness Requirements

JAR 25 Change 7	
JAR 25 Change 8 for paragraph	25.305(d)
JAR 25 Change 10 for paragraph	25.807(d)
JAR 25 Change 12 for paragraphs	25.341, 25.812, 25.853

2. Special Conditions

Special conditions in accordance with LFV Issue Book

Item B-2	Stall identification and recovery characteristics
Item B-4	Performance in Icing Conditions
Item B-5	All engines operating, Steep Approach Landing
Item B-7	Gravel runway operation
Item B-8	Takeoff and landing in tailwind greater than 10 knots
Item B-9	High altitude takeoff
Item C-3	Propeller blade impact NPA 25C-112 applies in lieu of JAR 25.571(e)(2)
Item C-5	Composite structure
Item C-6	Structural design loads for Wing Tip Extension
Item D-7	Lightning Protection, Indirect effects
Item E-5	Automatic Reserve Power
Item F-1	Flight guidance system (basic system)
Item F-2	CAT II requirements
Item F-3	Effect of external radiation upon aircraft systems
CRI H-01	Enhanced Airworthiness Programme for Airplane Systems – ICA on EWIS

SECTION 2: SAAB 340B - continued

3. Exemptions

No exemptions have been granted.

4. Equivalent Safety Findings

Equivalent Safety Findings in accordance with LFV Issue Book

Item A-2	Oil quantity indicator	JAR 25.1551
Item A-3	Refuelling system, auto shut-off testing	JAR 25.979(b)(1)
Item A-5	Static system integrity	JAR 25.1333(c)
Item A-6	Stand-by compass system	JAR 25.1333(b)
Item A-7	AC system indication	JAR 25.1351(b)(6)
Item A-11	Exit handle illumination	JAR 25.811(e)(3)
Item B-6	Stall and stall warning speeds and manoeuvre capability	JAR 25.103(a)(b)(c); 107(b)(c); 119(b); 121(c)(d); 125(a); 145(a)(b)(c)(d); 147; 149; 161; 175; 177; 201(a)(b); 207(c)(d); 233(a); 237(a)
CRI D-9	Improved Flammability Standards for Thermal Acoustic Insulation Materials used in Large Airplanes	JAR 25.853(a), JAR 25.855(d)

5. Environmental Protection Standards

Noise: See TCDSN A.068

III. Technical Characteristics and Operational Limitations

1. Production Basis: Manufactured under Type Certificate
2. Type Design Definition: Defined by Type Specification 72PJS0329.
Drawings are defined in the Saab AB System List, Doc. No. 7200-0.
Type Record, Doc. No. 72CCS1091 and 72CCS2333
3. Description: A low wing, twin-engine turboprop aircraft equipped to carry up to 37 passengers and cargo in a pressurized cabin and intended for short to medium haul routes.
4. Equipment: Equipment is listed in the SAAB SF 340 Master Equipment Register, Doc. No. 72PWS0861
5. Dimensions

Span	21,44 m	(70 ft 4 in)	
	22,75 m	(74 ft 8 in)	With Mod. 2571
Length	19,73 m	(64 ft 9 in)	
Height	7.00 m	(23 ft)	
Wing Area	41.8 m ²	(450 ft ²)	

SECTION 2: SAAB 340B - continued

6. Engines: 2 engines – General Electric Company,
Model CT7-9B, free turbine turboprop
Power turbine/propeller reduction gearing 15.9:1

The maximum continuous and takeoff static sea level ratings at ISA:

	Shaft Horse Power		Jet Thrust		Torquemeter Reading
	(kW)	(SHP)	(N)	(lbf)	(%)
Max Takeoff (with APR)	1 395	1 870	792	178	107
Takeoff	1 305	1 750	743	167	100
Max Cont.	1 305	1 750	743	167	100

7. Auxiliary Power Unit: none

8. Propellers: 2 propellers

Dowty Aerospace, Model
(c) R.354/4-123-F/13
(c) R.354/4-123-F/20
(c) R.375/4-123-F/21
(c) R.389/4-123-F/25
(c) R.389/4-123-F/26
(c) R.390/4-123-F/27

Blades: 4
Diameter: 3.35 m (132 in) – no reduction permitted.

Hamilton Standard, Model
14 RF-19

Blades: 4
Diameter: 3.35 m (132 in) – no reduction permitted.

9. Fluids (Fuel, Oil, Additives, Hydraulics) Jet A, Jet A-1, Jet B (ASTM D-1655),
JP 4, JP 5 (MIL-T-5624), JP-8 (MIL-T-83133D),
CIS fuels RT and TS-1 (GOST 10227).

In addition, all aviation gas turbine fuels conforming to the latest revision of GE Jet Fuel Specification No. D50TF2 for the GE CT7 engine installation are approved.

Location	Volume		Weight	
	Litres	U.S. Gal	kg	lb
Left wing	1 610	425	1 290	2 845
Right wing	1 610	425	1 290	2 845
Total Usable	3 220	850	2 580	5 690

Fuel weight based upon fuel density 0.802 kg/l (6.7 lb/U.S. Gal).
Pressure fuelling.
Max pressure for pressure fuelling is 345 kPa (50 psi).

SECTION 2: SAAB 340B - continued

10. Fluid Capacities: Refer to applicable approved manuals

11. Airspeed Limits: See Airplane Flight Manual

12. Maximum Operating Altitude: 7 620 m (25 000 ft) pressure altitude

13. All Weather Capability: Cat II

14. Maximum Certified Masses:

Taxi	13 065 kg	(28 800 lb)	
	13 290 kg	(29 300 lb)	With Mod. No. 2438
Takeoff	12 930 kg	(28 500 lb)	
	13 155 kg	(29 000 lb)	With Mod. No. 2438
Landing	12 700 kg	(28 000 lb)	
	12 930 kg	(28 500 lb)	With Mod. No. 2438
Zero Fuel	11 790 kg	(26 000 lb)	
	12 020 kg	(26 500 lb)	With Mod. No. 2438

15. Centre of Gravity Range: See Airplane Flight Manual

16. Mean Aerodynamic Chord:
(MAC) 2.08 m

17. Levelling Means: See Weight and Balance Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot)

19. Maximum Seating Capacity: 37 Passengers

20. Exits:

	Nr	Type	Size mm (inches)
Passenger door	1	Type I	0.69x1.60 m (27x63 in)
Service/ emergency door	1	Type II	0.61x1.22 m (24x48 in)
Emergency exits	2	Type III	0.51x0.91 m (20x36 in)
Crew hatch	1	-	0.48x0.50 m (19x19.7 in)

21. Baggage/Cargo Compartment:

Location	Maximum Baggage
Rear Cargo	950 kg (2 100 lb)

See Weight and Balance Manual.

22. Wheels and Tyres

Main wheel tyres: A 24 x 7.7

Nose wheel tyres: A 17.5 x 6.25-6

IV. Operating and Servicing Instructions

1. Flight Manuals:

1.1 Airplane Flight Manuals:	Doc. No.
Without Mod No. 2571:	
Standard version	AFM 340B 000
U.S. Type design version	AFM 340B 001
Australian Type design version	AFM 340B 003
Canadian Type design version	AFM 340B 005
With Mod No. 2571:	
Standard version	AFM 340B 010
Canadian Type design version	AFM 340B 015
1.2 Aircraft Operations Manual	72LKS3089
1.3 Weight and Balance Manual	72LKS3080
1.4 Master Minimum Equipment List (MMEL)	72LKS3091

2. Service Instructions:

2.1 EASA Airworthiness Directives	
Swedish Airworthiness Directives (SAD)	
2.2 Service Letter and Service Bulletins	
2.3 Available service documents:	Doc. No.
Aircraft Maintenance Manual	72LKS3076
Wiring Manual	72LKS3078
Structural Repair Manual	72LKS3079
Maintenance Review Board Report	72LKS3081
Illustrated Parts Catalogue	72LKS3077
Certification Maintenance requirement based on System Safety Assessment	72DSS0602

V. Notes

Reserved

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

AFM	Airplane Flight Manual
APU	Auxiliary Power Unit
CRI	Certification Review Item
CS	Certification Specification
EASA	European Aviation Safety Agency
ES(F)	Equivalent Safety (Finding)
EWIS	Enhanced Wiring Interconnection System
ICA	Instructions for Continued Airworthiness
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
LFV	Luftfartsverket (Swedish Civil Aviation Administration)
NPA	Notice of Proposed Amendment
SB	Service Bulletin
SC	Special Condition
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise

II. Type Certificate Holder Record

Saab AB, Aeronautics
SE-581 88 Linköping
SWEDEN

III. Change Record

Starting with Issue 21

Issue	Date	Changes	TC issue
Issue 21	16/12/2011	Type Certificate Holder's name changed. Addition of CRI H-01 for ICA on EWIS and CRI D-9 for Improved Flammability Standards New TCDS format plus some editorials	Issue 1, 30/05/1984 (LFV A 1/84)

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