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SECTION A1: GENERAL, L 60 Type Design

A1. General

Data Sheet No.: 27323-1958	Issue: 7	Date: February 12, 2016
1. a) Type:	L 60	
b) Variant:	L 60	
2. Airworthiness Category:	Normal	
3. Type Certificate Holder:	EVEKTOR, spol. s r. o. Letecká 1008 686 04 Kunovice CZECH REPUBLIC	
4. Manufacturer:	ORLIČAN n. p. Choceň CZECH REPUBLIC	
5. Certification Application Date:	1955	
6. CAA CZ Certification Date:	17.7.1958	

AII. Certification Basis

1. Reference Date for determining the applicable requirements	1955
2. Certification Basis:	---
3. Airworthiness Requirements:	Airworthiness directive BVF dated 1936 and BCAR dated 1951.
4. Requirements elected to comply:	None
5. Special Conditions:	None
6. Exemptions:	None
7. Equivalent Safety Findings:	None
8. Environmental Standards:	None

AIII. Technical Characteristics and Operational Limitations

1. Type Design Definition:	---
2. Description:	L-60 is a single-engined, high-wing monoplane of a compound structure with a conventional arrangement of tail surfaces and a fixed landing gear with oleo-pneumatic absorbers and a tail skid.
3. Equipment:	Minimum equipment list is attached to the document: "Letová příručka a provozní návod letadla L-60" ref. no. 3029/58. Magnetic compass Turn and bank indicator

Air speed indicator
Vertical speed indicator
Altimeter
Oil and fuel temperature meter and pressure gauge
Tachometer
V-A meter
Flap position indicator

4. Dimensions:

Span	13.96 m
Length	8.54 m
Height	2.72 m
Wing Area	24.3 m ²

5. Engine:

5.1 Model:	Praga M 208 B
5.2 Type Certificate:	Č. j. 301 59-1958
5.3 Limitations:	Max. Take-off Power 160 kW Max. Continuous Power 140 kW Max. Engine RPM 3 000 RPM Max. Continuous RPM 2 850 RPM Max. Cylinder Head Temperature 210°C Max. Oil Temperature 115°C Min. Oil Temperature 40°C

6. Propeller:

6.1 Model:	V411
6.2 Type Certificate:	č. j. 808/58 Supplement no.1, č. j. 3542/60, 26.8.1958
6.3 Number of Blades:	2
6.4 Diameter:	2 750 mm
6.5 Sense of Rotation:	right

7. Fluids:

7.1 Fuel:	200 litres Aviation petrol 67-80 oct.
7.2 Oil:	16 litres (min. 6 litres) Aviation mineral oil, refer to the document "Letová příručka a provozní návod letadla L-60".

8. Air Speeds:

Never Exceed Speed V_{NE}	270 km/h IAS
Rough Air Speed V_{RA}	140km/h IAS
Max. Flap Extended Speed V_{FE}	135km/h IAS

9. Max. operating ceiling: 4200 m

10. Operational Capability: Day and night VFR

11. Maximum Weights:
- | | |
|--------------------------|--------------------------------|
| Maximum Take-off Weight: | 1557/1551/1560 kg (see note 1) |
| Maximum Take-off Weight: | 1320 kg (see note 2) |
| Maximum Take-off Weight: | 1320 kg (see note 3) |
| Maximum Take-off Weight: | 1437 kg (see note 4) |
| Maximum Take-off Weight: | 1458 kg (see note 5) |
| Maximum Take-off Weight: | 1455 kg (see note 6) |
| Empty Weight: | 1000 kg \pm 3% |
| Maximum Baggage Weight: | 20 kg (see note 6) |
12. Centre of Gravity Range:
- | | |
|---------------|----------------------|
| Forward limit | 20% MAC for G=1100kg |
| Rear limit | 35% MAC for Gmax |
13. Datum:
- Firewall
14. Levelling Means:
- | | |
|------------------|---------------------------|
| Longitude axis: | leveling points 1L and 2L |
| Transverse axis: | leveling points 1L and 1P |
15. Minimum Flight Crew:
- 1 (Pilot)
16. Maximum Passenger Seating Capacity:
- 3
17. Lifetime limitations:
- see the document: „Příručka pro údržbu“
18. Other limitations:
- | | |
|---------------|--------|
| Load factors: | +2,55G |
| | -1,00G |
19. Deflection angles of control surfaces:
- | | | |
|----------------------|------|--------------|
| Aileron | up | 30° \pm 2° |
| | down | 20° \pm 2° |
| Elevator | up | 40° \pm 2° |
| | down | 20° \pm 2° |
| Rudder to both sides | | 27° \pm 2° |
| Flaps | | 50° |
| Trim tab | up | 12° \pm 1° |
| | down | 35° \pm 1° |
20. Wheels and Tyres:
- | | |
|-------------------|--------------|
| Main landing gear | Aero 500x180 |
| Tail-wheel unit | 260x85 |

AIV. Operating and Service Instructions

1. Flight manual:
 - In Czech language Letová příručka a provozní návod letadla L 60, approved by the State Aviation Administration ref. No. 3029/58, or later revisions approved by the CAA.
2. Operating and Maintenance Manual
 - Aircraft (In Czech language) Letová příručka a provozní návod letadla L 60, approved by the State Aviation Administration ref. No. 3029/58, or later revisions approved by the CAA.
 - Engine (In Czech language) Letadlový motor DORIS B - popis– obsluha - udržování
 - Engine (In Czech language) Doplněk pro motor Praga DORIS M-208BI
 - Propeller (In Czech language) Technický popis a provozní instrukce vrtule V 415 (V 411B)

AV. Notes

1. The given data applies to the version L 60 B. This version is designed for oil and water spraying and dusting with chemical substances for agricultural works. A reservoir for 340 or 420 litres is located in the cockpit behind the pilot seat. It can be refilled from the outside of the airplane. The pilot controls the pump or the sprayer which is attached to the neck of the reservoir below the fuselage. Weight during dusting and sowing: 1557 kg / oil spraying 1551 kg / water spraying 1560 kg.
2. The given data applies to the version L 60 C. This version is dedicated for sports purposes.
3. The given data applies to the version L 60 D. This version is designed for towing of one, two, or three gliders. It is equipped with a winch with 65 m long nylon rope. The rope is wound onto the drum in the fuselage after the glider is released. Two gliders are towed on a double rope which is attached to the lock at the end of the fuselage. The lock is controlled by the switch on the cockpit floor. The third glider is attached to the rope connected to the winch. Max. weight of the towed gliders for double and triple towing is 1100 kg while the force exerted on the lock on the towing airplane must not exceed 835 kg during taxiing.
4. The given data applies to the version L 60 E. This version is designed for transport of two wounded persons and one accompanying person and it is also equipped with sanitary equipment. The stretchers are located one above the other on the right side of the cockpit. The paramedic sits behind the pilot on a special seat. The rear part of the cockpit is hinged so that the wounded persons can be boarded.
5. The given data applies to the version L 60 F. This version is designed for parachute flights. The cockpit is equipped with a seat for the parachutist before the jump (this seat is located next to the pilot and it is turned against the direction of flight) and a seat for the second parachutist and the instructor in the rear part of the cockpit. The speed for parachute jumps is 100-120 km/h with flaps extended to 15°.
6. The given data applies to the version L 60 G. This four-seat version is designed for transport of passengers. It is equipped with two upholstered front seats for the pilot and one passenger and an upholstered rear seat for two passengers. The baggage compartment is located behind this seat.

SECTION A2: Reserved

SECTION B1: GENERAL, L 60 S

B1. Všeobecně

Data Sheet No: 27323-1958	Issue: 7	Date: February 12, 2016
1. a) Type:	L 60	
b) Variant:	L 60 S	
2. Airworthiness Category:	Normal	
3. Type Certificate Holder:	EVEKTOR, spol. s r. o. Letecká 1008 686 04 Kunovice CZECH REPUBLIC	
4. Manufacturer:	AEROTECHNIK , podnik UV Svazarmu. Uherské Hradiště-Kunovice CZECH REPUBLIC	
5. Certification Application Date:	1976	
6. CAA CZ Certification Date:	17.07.1976	

BII. Certification Basis

1. Reference Date for determining the applicable requirements:	1955
2. Certification Basis:	---
3. Airworthiness Requirements:	Airworthiness directive BVF dated 1936 and BCAR dated 1951.
4. Requirements elected to comply:	None
5. Special Conditions:	None
6. Exemptions:	None
7. Equivalent Safety Findings:	None
8. Environmental Standards:	None

BIII. Technical Characteristics and Operational Limitations

1. Type Design Definition:	---
2. Description:	L-60 S is a single-engined, high-wing monoplane of a compound structure with a conventional arrangement of tail surfaces and a fixed landing gear with oleo-pneumatic absorbers and a tail skid.
3. Equipment:	Minimum equipment list is attached to the document: "Letová příručka letounu L-60 S" ref. No. 3927/1171/76 Magnetic compass

Turn and bank indicator
Air speed indicator
Vertical speed indicator
Altimeter
Oil and fuel temperature meter and pressure gauge
Tachometer
V-A meter
Flap position indicator

4. Dimensions:

Span	13.96 m
Length	8.54 m
Height	2.72 m
Wing Area	24.3 m ²

5. Engine:

5.1 Model:	AI-14 RA
5.2 Type Certificate	CB-125 dated 26.6.1976
5.3 Limitations:	Max. Take-off Power 190 kW Max. Continuous Power 160 kW Max. Engine RPM 2 350 ot/min Max. Continuous RPM 2 050 ot/min Max. Cylinder Head Temperature 210°C Max. Oil Temperature 115°C Min. Oil Temperature 40°C

6. Propeller:

6.1.1 Model:	US-122 000(W-530-D11/N)
6.1.2 Type Certificate:	DB-118 dated 23.3.1978
6.1.3 Number of Blades:	2
6.1.4 Diameter:	2 650 (2 750 mm)
6.1.5 Sense of Rotation:	left
or	
6.2.1 Model:	L 60S.607.00
6.2.2 Type Certificate:	Č.81-01 dated 7.10.1981
6.2.3 Number of Blades:	2
6.2.4 Diameter:	2 650
6.2.5 Sense of Rotation:	left

7. Fluids:

7.1. Fuel:	200 litres Aviation petrol MIN. 71 oct.
7.2 Oil:	16 litres (min. 6 litres) Aviation mineral oil, refer to the document "Letová příručka a provozní návod letadla L-60 S".

8. Air Speeds:		
Never Exceed Speed V_{NE}		160 km/h IAS
Rough Air Speed V_{RA}		140km/h IAS
Max. Flap Extended Speed V_{FE}		140km/h IAS
9. Max. operating ceiling:		3500 m
10. Operational Capability:		Day and night VFR
11. Weights:		
Maximum Take-off Weight:		1560 kg
Empty Weight:		1030 kg \pm 3%
Maximum Baggage Weight:		20 kg
12. Centre of Gravity Range:	Forward limit	23% MAC for G=1100kg
	Rear limit	32,5% MAC for Gmax
	Forward limit	24,5% MAC for G=1100kg
	Rear limit	34% MAC for Gmax
	(see note 1)	
13. Datum:		Firewall
14. Levelling Means:	Longitude axis:	leveling points 1L and 2L
	Transverse axis:	leveling points 1L and 1P
15. Minimum Flight Crew:		1 (Pilot)
16. Maximum Passenger Seating Capacity:		3
17. Lifetime limitations:		see „Příručka pro údržbu“
18. Other limitations:	Load factors:	+2,55G -1,00G
19. Deflection angles of control surfaces:	Aileron	up $30^{\circ} \pm 2^{\circ}$ down $20^{\circ} \pm 2^{\circ}$
	Elevator	up $40^{\circ} \pm 2^{\circ}$ down $20^{\circ} \pm 2^{\circ}$
	Rudder to both sides	$27^{\circ} \pm 2^{\circ}$
	Flaps	30°
	Trim tab	up $13^{\circ} \pm 1^{\circ}$ down $23^{\circ} \pm 1^{\circ}$
20. Wheels and Tyres:	Main landing gear	Aero 500x180
	Tail-wheel unit	260x85

BIV. Operating and Service Instructions

1. Flight Manual:

- In Czech language Letová příručka letounu L-60 S, approved by the State Aviation Administration ref. No. 3927/1171/76, or later revisions approved by the CAA
- In Czech language Dodatek č. 1 k Letové příručce letounu L-60 S s vlečnou vrtulí L 60S.607
- In Czech language Dodatek č. 2 Letové příručky L-60 S
- In Czech language Letová příručka L-60 S. Dodatek č. 2AT

2. Operating and Maintenance Manual:

- Aircraft (In Czech language) Letová příručka a provozní návod letadla L 60, approved by the State Aviation Administration ref. No. 3029/58, or later revisions approved by the CAA.
- Aircraft (In Czech language) Technický popis a návod k obsluze letounu L-60 S (Příručka pro mechanika), issued November 1976 or later approved revision
- Aircraft (In Czech language) Technický popis L-60 S. Dodatek č. 2AT.
- Aircraft (In Czech language) Dodatek č. 4 Technického popisu a návodu k obsluze letounu L-60 S
- Engine (In Czech language) Návod k obsluze a provádění periodických prací na leteckých motorech AI-14 R 6.serie a AI-14 RA, issued September 12 1966
- Engine (In Czech language) Provozní instrukce pro letecký motor AI-14 RA, issued January 11 1969
- Propeller (In Czech language) Technický popis, návod k obsluze a návod k provádění oprav vrtule W-530-D11/N a US-122 000
- Propeller (In Czech language) Dodatek č. 1 k Příručce pro mechanika L-60 S s vlečnou vrtulí L 60S.607

BV. Notes

1. Apply for aircraft equipped with the wooden propeller L 60S.607.00.

SECTION B2: Reserved

SECTION C1: GENERAL, L 60 SF

C1. General

Data Sheet No: 27323-1958	Issue: 7	Date: February 12, 2016
1. a) Type:	L 60	
b) Variant:	L 60 SF	
2. Airworthiness Category:	Normal	
3. Type Certificate Holder:	EVEKTOR, spol. s r. o. Letecká 1008 686 04 Kunovice CZECH REPUBLIC	
4. Manufacturer:	AEROTECHNIK n.p., podnik UV Svazarmu. Uherské Hradiště- Kunovice CZECH REPUBLIC	
5. Certification Application Date:	1983	
6. CAA CZ Certification Date:	17.07.1983	

CII. Certification Basis

1. Reference Date for determining the applicable requirements	1955
2. Certification Basis:	---
3. Airworthiness Requirements:	Airworthiness directive BVF dated 1936 and BCAR dated 1951
4. Requirements elected to comply:	None
5. Special Conditions:	None
6. Exemptions:	None
7. Equivalent Safety Findings:	None
8. Environmental Standards	None

CIII. Technical Characteristics and Operational Limitations

1. Type Design Definition:	---
2. Description:	L-60 SF is a single-engined, high-wing monoplane of a compound structure with a conventional arrangement of tail surfaces and a fixed landing gear with oleo-pneumatic absorbers and a tail skid.
3. Equipment:	Minimum equipment list is attached to the document: "Letová příručka letounu L-60 SF" ref.no. 5020/1183/83Ka Magnetic compass

Turn and bank indicator
Air speed indicator
Vertical speed indicator
Altimeter
Oil and fuel temperature meter and pressure gauge
Tachometer
V-A meter
Flap position indicator

4. Dimensions:

Span	13.96 m
Length	8.54 m
Height	2.72 m
Wing Area	24.3 m ²

5. Engine:

5.1.1 Model:	M 462 RF
5.1.2 Type Certificate:	66-04 dated 19.7.1966
5.1.3 Limitations:	Max. Take-off Power 190 kW Max. Continuous Power 140 kW Max. Engine RPM 2 200 ot/min

6. Propeller:

6.1 Model:	V 520 with speed controller LUN 7811-7
6.2 Type Certificate:	66-01 dated 21.3.1966
6.3 Number of Blades:	2
6.4 Diameter:	2 700 mm
6.5 Sense of Rotation:	left

7. Fluids:

1.1 Fuel:	200 litres Aviation petrol 78-100 oct.
7.2 Oil:	16 litres (min. 6 litres) Letecký olej Aero Shell W 100, Elf.

8. Air Speeds:

Never Exceed Speed V_{NE}	160 km/h IAS
Never Exceed Speed V_{RA}	140km/h IAS
Max. Flap Extended Speed V_{FE}	140km/h IAS

9. Max. operating ceiling: 3500 m

10. Operational Capability: Day and night VFR

11. Weights:

Maximum Take-off Weight:	1560 kg
Empty Weight:	1030 kg \pm 3%
Maximum Baggage Weight:	20 kg

12. Centre of Gravity Range:	Forward limit	23% MAC for G=1100kg
	Rear limit	32,5% MAC for Gmax
13. Datum:	Firewall	
21. Levelling Means:	Longitude axis:	leveling points 1L and 2L
	Transverse axis:	leveling points 1L and 1P
14. Minimum Flight Crew:	1 (Pilot)	
15. Maximum Passenger Seating Capacity:	3	
16. Lifetime limitations:	see „Příručka pro údržbu“	
17. Other limitations:	Load factors:	+2,55G -1,00G
18. Deflection angles of control surfaces:	Aileron	up 30° ± 2° down 20° ± 2°
	Elevator	up 40° ± 2° down 20° ± 2°
	Rudder to both sides	27° ± 2°
	Flaps	30°
	Trim tab	up 13° ± 1° down 23° ± 1°
19. Wheels and Tyres:	Main landing gear	Aero 500x180
	Tail-wheel unit	260x85

CIV. Operating and Service Instructions

1. Flight manual:
 - In Czech language
Letová příručka L-60 SF, approved by the State Aviation Inspectorate ref. no. 5020/1183/83/Ka, or later revisions approved by the CAA.

2. Operating and Maintenance Manual
 - Aircraft (In Czech language)
Letová příručka a provozní návod letadla L 60, approved by the State Aviation Administration ref. No. 3029/58, or later revisions approved by the CAA.
 - Aircraft (In Czech language)
Technický popis a návod k obsluze letounu L-60 S (Příručka pro mechanika), issued November 1976 or latter approved revision
 - Aircraft (In Czech language)
Technický popis a návod k obsluze letounu L-60 S (Příručka pro mechanika) with appendix to L-60 SF, issued November 1976 or latter approved revision
 - Engine (In Czech language)
Letecký motor M 462 RF. Technický popis a návod k obsluze
 - Propeller (In Czech language)
Technický popis a provozní instrukce vrtule V 520

CV. Notes

None.

Oddíl C2: Reserved