

## L-39 AIRCRAFT TECHNICAL SPECIFICATION

### 1. Required Aircraft Capabilities

The aircraft operation in the Czech Republic requires the meeting of the requirements for aircraft registration in the Military Aviation Registry of the Czech Republic (hereinafter VLR ČR) in accordance with Art. 35b and Art. 35c, Act 219/1999 Coll., on the Armed Forces of the Czech Republic, as amended.

It is required that the aircraft enable the conduct of flight training by the lessee in accordance with the requirements of the ODVL SSŘO MO, while meeting the minimum requirements and capabilities:

Air band 1 radio station (channel spacing 8.33 MHz)	Necessary
Air band 2 radio station (for the Czech Military training)	Beneficial
Mode S transponder	Necessary
IFR certification	Beneficial
RNP APCH navigation performance	Beneficial

### 2. Pilot's equipment and gear

The aircraft must enable using this high-altitude equipment:

- Anti-G trousers - ARZ820 NATO
- Oxygen system KKO-5 - mask KM34D (oxygen supply from ORK - original design)
- Helmet connector (ALPHA 300/700) in ORK.- Nexus TJT-120
- Headset output impedance - low ohm (150 Ω), 100 mW, (SPL 95 dB/1 kHz/1 mV)
- Microphone input - dynamic compatible 150 - 1,000 Ohm, f response 150 - 5,000 Hz (MIC amplifier in mask KM-34 - compatible power supply 6 - 18 V, output ref: 0 dB SPL = 20.0.uPa/1 kHz/10 Vdc/150 Ohms AC load)

### 3. Ejection System

The aircraft must feature both fully functional VS1-BRi ejection seats for the entire duration of the lease.

### 4. Flight Data Recorder

The aircraft must feature a flight data recorder that records the basic flight parameters (at least as the SARPP-12G data recorder). If another flight data recorder is used, it is necessary to supply its evaluation device as well.

### 5. Aircraft Operation and Maintenance

The aircraft will be handed over to the Lessee in their operable condition without any restrictions and must be fully airworthy. The lessor must demonstrate that the operation and maintenance of the aircraft have been performed in accordance with the current valid

technical documentation, including the aircraft maintenance program, which was approved by the relevant national authority with which the aircraft were originally registered.

Any potential deviations from the standard colouring of military aircraft, introduced by Technical Bulletin No. 8/2020, Revision I., Surface treatment of aircraft registered in the VLR ČR, will have to be submitted to the ODVL SSŘO MO for approval.

The aircraft colour design must allow the temporary placement of state emblems and symbols in accordance with Art. 13 of Decree 387/2010 "on military emblems and uniforms".

The operation and maintenance will be performed by the Lessee's personnel in accordance with the accompanying aircraft documentation, while meeting the requirements for the maintenance of the L-39 aircraft kept in the Military Aviation Registry of the Czech Republic, including any exchanges of aggregates for the Lessee's aggregates.

## 6. Aircraft Aggregates

Required operating times to overhaul (Time Between Overhaul), operating times, and operating hours of the aircraft aggregates:

Aggregate	Minimum TBO and OT	Requirement
Airframe	Till the end of 2023	Necessary
	700 hours	Necessary
Engine (AI-25TL)	Till the end of 2023	Necessary
	700 hours	Beneficial
Main landing gear	Till the end of 2023	Necessary
	900 landings	Necessary
Nose landing gear	Till the end of 2023	Necessary
	900 landings	Necessary
Nose landing gear wheel	Till the end of 2023	Necessary
	900 landings	Necessary
Main landing gear wheel	Till the end of 2023	Necessary
	900 landings	Necessary
Main wheel brake	Till the end of 2023	Necessary
	900 landings	Necessary
Rubber fuel tanks	Till the end of 2023	Necessary
Cabin sealing hose	Till the end of 2023	Necessary
Auxiliary power unit (SAPHIR-5)	Till the end of 2023	Beneficial
Starter unit ignition device	Till the end of 2023	Beneficial
Air generator	Till the end of 2023	Beneficial
Turbocooler (LUN 5670)	700 hours	Beneficial
Seat release	Till the end of 2023	Necessary
Parachute release	Till the end of 2023	Necessary
Pilot parachutes and seat parachutes	Till the end of 2023	Necessary
Hydraulic pump (LUN 6101)	700 hours	Beneficial
Fuel pump (LUN 6280)	700 hours	Beneficial
Pressure vessels	Till the end of 2023	Beneficial