

2) Operating instructions

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Introduction

This chapter of the Operators Manual contains the operating limits that must be observed to ensure the ROTAX® aircraft engine and standard systems operate safely.

2.1) Operating limits

Speed

Take-off speed	6800 rpm (max. 5 min.)
Cruising speed	6500 rpm
Idle speed	approx. 2000 rpm

Performance

Performance data relate to ISA (International Standard Atmosphere) conditions.

582 UL DCDI mod. 99 / mod. 17
48 kW

Lubrication

Oil capacity of oil injection lubrication at 1500 rpm pump speed per outlet.

582 UL DCDI mod. 99 / mod. 17
max. 135 cm ³ /h (8.2 in ³ /h)

Cylinder head temperature

Reading at spark plug seat.

	582 UL DCDI mod. 99 / mod. 17
Max.	150 °C (302 °F)
Normal	110 to 130 °C (230 to 266 °F)
Difference between cyl. 1 and 2	Max. 10 °C (Max. 16 °F)

Exhaust gas temperatures:

	582 UL DCDI mod. 99 / mod. 17
Max.	650 °C (1202 °F)
Normal	500 to 620 °C (932 to 1148 °F)
Difference between cyl. 1 and 2	Max. 25 °C (Max. 43 °F)

Engine start, operating temperature

Max.	50 °C (120 °F)
Min.	-25 °C (-13 °F)

Coolant temperature

Max.	80 °C (175 °F)
Min.	65 °C (150 °F)

Fuel pressure

Max.	0.4 bar (5.8 psi)
Min.	0.2 bar (2.9 psi)