

PART 2

The limitations given in this Part are taken from the CA Release Document, Issue 8. The CA Release Document must be consulted to ascertain the latest release standard.

CHAPTER 1 — ENGINE LIMITATIONS

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1 Engine Limitations, Avon 122

(a) The Avon Mk 122 operating limitations are:

<i>Power Rating</i>	<i>Time Limit</i>	<i>RPM</i>	<i>Max IPT°C</i>
Take-off and operational necessity	10 mins (combined)	8100 ± 50	690
Intermediate	30 mins	7950	655
Maximum continuous	Unrestricted	7700	625
◀ Ground idling	Unrestricted	3000 ± 100	525
During start	3 secs	—	640 ▶

Note: The ground RPM will vary with a change in fuel density from that at which the engine settings were made. A higher density will cause a drop in RPM and a lower density a rise. Every 0.01 change in density will cause a corresponding difference of 50 in the ground RPM.

(b) *Oil Pressure.*

Normal at 7700 RPM and above	20 PSI
Minimum at 7700 RPM and above	15 PSI
Minimum at 3500 RPM	10 PSI

- ◀ Note: To maintain adequate engine lubrication, any negative g manoeuvre must be limited to a maximum of 10 seconds; each excursion into negative g must be followed by a recovery period of at least 15 seconds at positive g. ▶

2 Fuel and Oil Specifications

(a) The use of the following fuels is permitted:

<i>NATO Code</i>	<i>Joint Service Designation</i>	<i>UK Specification</i>	<i>US Specification</i>
F34	Avtur/FSII	DERD 2453	Mil-T-83133 JP-8
F40	Avtag/FSII	DERD 2454	MIL-T-5624 JP-4
F44	Avcat/FSII	DERD 2452	MIL-T-5624 JP-5
F35*	Avtur	DERD 2494	Jet A-1
F43*	Avcat	DERD 2498	—

*Note: These fuels may be used provided that FSII (DERD 2451) is added in the proportion of 0.10 to 0.15% by volume.

(b) The approved engine oil is:

<i>NATO Code</i>	<i>Joint Service Designation</i>	<i>UK Specification</i>	<i>US Specification</i>
O-149	OX-38	DERD 2487	—

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