

Ratings (see NOTES 3, 4, and 5)

	Maximum Continuous			Takeoff (5 Minutes)				Output Shaft RPM
	SHP	ESHP	Output Shaft RPM	SHP (Dry)	SHIP (Wet)*	ESHP (Dry)	ESHP (Wet)*	
<u>Model TPE331</u>								
-3	840	904	2000	840	940	904	1010	2000
-3U	"	"	"	"	"	"	"	"
-3UW	"	"	"	"	"	"	"	"
-3W	"	"	"	"	"	"	"	"
-10UA	"	"	"	"	"	"	"	"
-5	776	834	1591	776	776	834	834	1591
-5B	"	"	"	"	"	"	"	"
-5U	"	"	"	"	"	"	"	"
-10P	"	"	"	"	"	"	"	"
-10T	"	"	"	"	"	"	"	"
-5A	"	"	"	"	840	"	904	"
-5AB	"	"	"	"	"	"	"	"
-10GP	"	"	"	"	"	"	"	"
-10GT	"	"	"	"	"	"	"	"
-6	715	776	2000	750	N/A	808	N/A	2000
-6A	"	"	"	"	"	"	"	"
-6U	"	"	"	"	"	"	"	"
-10AV	"	756	"	"	"	792	"	"
-8	715	755	2000	715	N/A	755	N/A	2000
-8A	"	"	1591	"	"	"	"	1591
-10N	"	"	2000	"	"	"	"	2000
-9	865	907	2000	865	N/A	907	N/A	2000
-9U	"	"	"	"	"	"	"	"
-10	900	944	1591	940	940	984	989	1591
-10G	"	"	"	"	"	"	"	"
-10GR	"	"	"	"	"	"	"	"
-10R	"	"	"	"	"	"	"	"
-10U	"	"	"	"	"	"	"	"
-10UF	"	"	"	"	"	"	"	"
-10UG	"	"	"	"	"	"	"	"
-10UGR	"	"	"	"	"	"	"	"
-10UR	"	"	"	"	"	"	"	"
-12	"	"	"	"	N/A	"	N/A	"

Ratings (see NOTES 3, 4, and 5) Continued

	Maximum Continuous			Takeoff (5 Minutes)				Output Shaft RPM
	SHP	ESHP	Output Shaft RPM	SHP (Dry)	SHIP (Wet)*	ESHP (Dry)	ESHP (Wet)*	
<u>Model TPE331</u>								
-10A	900	944	2000	940	940	984	989	2000
-10B	"	"	"	"	"	"	"	"
-10J	970	1015	1591	1000	1000	1045	1045	1591
-10UJ	"	"	"	"	"	"	"	"
-12JR	"	"	"	"	"	"	"	"
-10UK	"	"	2000	"	"	"	"	2000
-11U	1000	1045	1591	1000	1100	1045	1152	1591
-11UA	"	"	"	"	"	"	"	"
-12B	1100	1151	2000	1100	N/A	1151	N/A	2000
-12UA	1050	1100	1591	1100	1100	1151	1134	1591
-12UAR	"	"	"	"	"	"	"	"
-12UER	"	"	"	"	"	"	"	"
-12UHR	"	"	"	"	"	"	"	"
<u>Model TSE331</u>								
-3U	700	756	2482	800	N/A	858	N/A	2482

*Augmented with water-alcohol per NOTE 5

	Weight, Dry **(Pounds)	Propeller-Shaft to engine rotor ratio
<u>Model TPE331</u>		
-3, -3U, -3UW, -3W	353	1:20.865
-5, -5U	360	1:26.229
-5A	370	"
-5B	375	"
-5AB	385	"
-6, -6U	360	1:20.865
-6A	375	"
-8	370	1:20.865
-8A	370	1:26.229
-9, -9U	375	1:20.865
-10, -10G, -10GR, -10R, -10T, -10U, -10UF, -10UG, -10UGR, -10GT, -10UR, -12	385	1:26.229
-10P, -10GP	400	1:26.229
-10A, -10AV	385	1:20.865
-10B, -10UK	387	"
-10N	385	"
-10UA	377	"
-10J, -10UJ	393	1:26.229
-11U, -11UA	405	"
-12B	429	1:20.865
-12JR	415	1:26.229
-12UA, -12UAR, -12UER, -12UHR	405	1:26.229
<u>Model TSE331</u>		
-3U	350	1:16.813

**The engine weight shown herein consists of hardware as shown on the engine parts list including nose cone assembly, intermediate housing and gear assembly, torque sensor assembly, power group (compressor and turbine), fuel delivery system (including low and high pressure pumps and fuel filter with integral bypass and thermostatically controlled valve for filter and anti-icing, fuel control unit, fuel-shutoff valve), ignition system, and propeller oil flow tube, but does not include: (a) hardware shown on the engine equipment list with the exception of fuel control unit, or (b) items coded "A" on the engine parts list.

FUEL TYPES AND ADDITIVES

Refer to the FAA approved Section of the Installation Manual (IM-5117).

Controls (See Note 13)

Principal dimension of basic engine

Refer to the Installation Drawing for each specific engine model configuration for dimensions and center of gravity location.

Oil

Oil conforming to AlliedSignal Specification EMS53110 (Type I and Type II) is approved.

Certification Basis

FAR 33 dated February 1, 1965 and Amendments 1, 2, and 3;
 Type Certificate No. E4WE issued March 28, 1969, Model TPE331-3, -3U, -3W, and
 -3UW;
 Model TSE331-3U added April 30, 1970;
 Model TPE331-5, -5U, -6, and -6U added May 15, 1970;
 Model TPE331-8, -9, and -9U added November 19, 1976;
 Model TPE331-10, -10U, and -6A added January 20, 1978;
 Model TPE331-11U added September 28, 1979;
 Model TPE331-10A and -10B added December 12, 1980;
 Model TPE331-8A added December 24, 1981;
 Model TPE331-10R, -10UF, and -11UA added June 25, 1982;
 Model TPE331-10UA added July 29, 1982;
 Model TPE331-10UR added November 14, 1983;
 Model TPE331-10UG, -10UGR, -10GR, and -10G added August 14, 1984;
 Model TPE331-12 added December 19, 1984;
 Model TPE331-12B added December 10, 1986;
 Model TPE331-12UAR added December 18, 1987;
 Model TPE331-5A, -12UA, -10J, and -10UJ added May 4, 1988;
 Model TPE331-10UK added November 4, 1988;
 Model TPE331-12UER added July 22, 1991;
 Model TPE331-10N added February 6, 1992
 Model TPE331-5B and -5AB added July 21, 1992;
 Model TPE331-12UHR added January 7, 1993;
 Model TPE331-10T added April 14, 1994;
 Model TPE331-10GT, -10P, -10GP added December 14, 1994;
 Model TPE331-10AV added July 19, 1996;
 Model TPE331-12JR added October 31, 1997

Production Basis

Production Certificate No. 413 issued March 4, 1965

NOTE 1: Maximum Permissible Temperatures - °F(°C)

	Exhaust Gas Temperature			Interstage Turbine Temperature			See Note
	Maximum Continuous	Takeoff (5 min.) (Dry)	Takeoff (5 min.) (Wet)*	Maximum Continuous	Takeoff (5 min.) (Dry)	Takeoff (5 min.) (Wet)*	
<u>Model TPE331</u>							
-3	1002(539)	1002(539)	1012(544)	1693(923)	1693(923)	1732(944)	
-3U	"	"	"	"	"	"	
-3UW	"	"	"	"	"	"	
-3W	"	"	"	"	"	"	
-5, -5A	1002(539)	1002(539)	1002(539)	1693(923)	1693(923)	1693(923)	
-5AB, -5B	"	"	"	"	"	"	
-5U	"	"	"	"	"	"	
-6	1002(539)	1002(539)	N/A	1693(923)	1693(923)	N/A	
-6A	"	"	"	"	"	"	
-6U	"	"	"	"	"	"	
-8	842(450)	842(450)	N/A	N/A	N/A	N/A	17
-8A	"	"	"	"	"	"	"
-10N	"	"	"	"	"	"	"
-9, -9U	842(450)	842(450)	N/A	N/A	N/A	N/A	20
-10, -10A	1202(650)	1202(650)	1202(650)	N/A	N/A	N/A	20
-10B, -10G	"	"	"	"	"	"	"
-10GR	"	"	"	"	"	"	"
-10J, -10R	"	"	"	"	"	"	"
-10U	"	"	"	"	"	"	"
-10UF	"	"	"	"	"	"	"
-10UG	"	"	"	"	"	"	"
-10UGR	"	"	"	"	"	"	"
-10UJ	"	"	"	"	"	"	"
-10UR	"	"	"	"	"	"	"
-11U	"	"	"	"	"	"	"
-11UA	"	"	"	"	"	"	"
-12, -12B	"	"	"	"	"	"	"
-12JR	"	"	"	"	"	"	"
-12UA	"	"	"	"	"	"	"
-12UAR	"	"	"	"	"	"	"
-12UER	"	"	"	"	"	"	"
-12UHR	"	"	"	"	"	"	"
<u>Model TPE331</u>							
-10UA	1049(565)	1049(565)	1049(565)	N/A	N/A	N/A	
-10AV	"	"	"	"	"	"	
-10GP	"	"	"	"	"	"	
-10GT	"	"	"	"	"	"	
-10P	"	"	"	"	"	"	
-10T	"	"	"	"	"	"	
-10UK	"	"	"	"	"	"	
<u>Model TSE331</u>							
-3U	N/A	N/A	N/A	1693(923)	1693(923)	N/A	

* Augmented with water-alcohol per NOTE 5.

For engines equipped with Interstage Turbine Temperature (ITT) measurement systems the maximum permissible temperatures do not vary with ambient or operating conditions.

For engines with Exhaust Gas Temperature (EGT) measurement systems, and not operating with a Single Red-Line (SRL) computer, the maximum permissible temperatures vary as a function of ambient temperature, altitude, and other operating conditions. Takeoff and maximum continuous EGT temperatures are for International Standard Atmosphere (ISA) sea-level, static un-installed conditions. Consult IM-5117 for other conditions. The maximum EGT for operation between 65 percent and 79 percent engine speed is 760°C for the TPE331-3 through -6 series engines and is 770°C for the TPE331-8 through -12 series engines.

For engines equipped with Exhaust Gas Temperature measurement systems, and operating with a Single Red-Line computer, the maximum permissible temperature does not vary under any condition except engine speed. The maximum EGT for operation between 65 percent and 79 percent engine speed is 770°C for the TPE331-8 through -12 series engines. For engine speeds above 80 percent the maximum indicated EGT is 650°C except when APR/RPR is activated. (See NOTE 20).

	Maximum Exhaust Gas Temperature During Starting (1 sec. Limit): °F(°C)	Maximum Interstage Temperature During Starting (1 sec. Limit): °F(°C)
<u>Model TPE331</u>		
-3, -3U, -3W, -3UW,	1500 (815)	2100 (1149)
-5, -5A, -5U, -5AB,	"	"
-5B, -6, -6A, -6U	"	"
<hr/>		
-8, -8A	1418 (770)	N/A
-9, -9U	"	"
-10, -10A, -10AV, -10B	"	"
-10G, -10GR	"	"
-10J, -10R, -10T, -10GT	"	"
-10P, -10GP	"	"
-10U, -10UA	"	"
-10UF, -10UG	"	"
-10UGR, -10UJ	"	"
-10UK, -10UR, -10N	"	"
-11U, -11UA	"	"
-12, -12JR, -12UA	"	"
-12UAR, -12UER, -12UHR	"	"
-12B	1500 (815)	"
<hr/>		
<u>Model TSE331</u>		
-3U	1500 (815)	2100 (1149)

Oil Temperature and Specifications:

AlliedSignal Specification	Type of Lubricant Equivalent Military Specification	Minimum of Starting °F (°C)
EMS 53110 TYPE I	MIL-L-7808D	-40 (-40)
	MIL-L-7808F	-40 (-40)
	MIL-L-7808G	-40 (-40)
EMS53110 TYPE II	MIL-L-23699B and subsequent	-40 (-40)

Note: Refer to IM 5117, FAA Approved Section, Lubrication System, for oil pressure and temperature limits.

NOTE 1: Maximum Permissible Temperatures - °F(°C) (Continued)

Ambient Air Temperature, °F(°C)

	<u>Starting</u>	<u>Operation</u>
Minimum	-40 (-40)	--
Maximum	130 (55)	130 (55)

Engine External Components Surface Temperature Limits (See Installation Manual IM5117, Section A).

NOTE 2: Pressure Limits

Fuel pump inlet pressure, minimum normal operation, refer to IM-5117 for operational limitations 5 psig plus true vapor pressure of fuel

Oil pressure at inlet connection to the engine, minimum 2.45 psig

Oil operating pressure ground idle (minimum at 65% speed) 40 psig

Normal operating range 70 to 120 psig

Normal operating range (above 23,000 ft. altitude) 50 to 120 psig

Minimum water-alcohol augmentation manifold inlet pressure (see NOTE 5)

NOTE 3: The Engine Ratings are based on:

Dynamometer operation at International Standard Atmosphere (ISA), Sea Level Static Conditions, see NOTE 1.

MIL-T-5624G-1, Grade JP-4 fuel with lower heating value of 18,400 BTU per pound.

MIL-L-23699B (or subsequent revision) type oil, Mobil Oil Jet II, or Exxon 2380.

No bleed-air extraction.

No anti-icing airflow.

No external accessory loads.

Zero inlet loss.

Exhaust gas discharging to ambient-static pressure through the turbine exhaust diffuser furnished with the engine.

Turbine gas temperature (ITT or EGT) limits not exceeded.

NOTE 4: Equivalent Shaft Horsepower (ESHP) for Static Conditions is based on:

ESHP = $\frac{\text{Net thrust, pounds}}{2.5} + \text{SHP}$

2.5

NOTE 5: Augmented Performance

- A. Augmented engine ratings are listed on Page 2.
- B. Augmented interstage turbine temperature or exhaust gas temperature limits are stated in NOTE 1.
- C. Engine propeller shaft torque limits per NOTE 7 shall remain the same.
- D. Water-alcohol mixture must conform to that shown in FAA approved Installation Manual IM-5117.
- E. Minimum water-alcohol flow rate is dependent on engine power requirements and is determined through coordination of the aircraft manufacturer and AlliedSignal Engines.
- F. Water-alcohol manifold pressure required to obtain specified flow is stamped on each manifold.

Engine Model	Water-Alcohol Flow Rate - lb/hr (NOTE 5.D)		Water Alcohol Manifold Pressure (psig) (NOTE 5.F)
	<u>Minimum</u>	<u>Maximum</u>	
-3, -3UW, -3W	780	950	10-14
-10UA, -10UK	528	600	6-8
-5, -5A, -5AB, -5B, -5U, -10T	NOTE E	950	N/A
-10GT, -10P, -10GP	"	"	"
-10, -10A, -10B, -10G, -10AV	"	"	"
-10J, -10R, -10U, -10UF	"	"	"
-10UG, -10UGR, -10UJ, -10UR	"	"	"
-11U, -11UA	NOTE E	1250	"
-12JR, -12UA, -12UAR, -12UER, -12UHR	"	1300	"

NOTE 6: Accessory ProvisionsA. Aircraft Accessory

Type of drive: (one each)	<u>All Models</u> AND2001 Type X1-B (Modified)
AND drive modifications	Rotation and RPM
Rotation facing drive pad	CCW
RPM at 100 percent engine speed	3959
Maximum torque (lb-in.) T _C , continuous torque	250
T _O , torque overload	375
T _S , static torque	1650
Overhung moment (lb-in.)	125
Speed ratio, drive to engine rotor	0.09487

B. Starter, Starter-generator or Alternator

Type of drive: (one each)

AND20002
Type XII-D
(Modified)

AND drive modifications

RPM, T_C , T_O
and stud pattern
rotated 30 degrees

All Models Except: TPE331-5, -5A, -5AB, -5B, -5U, -6, -6A, -6U, -10AV, -10GT, -10P, -10GP, -8, -9, -9U, -10N, -10T	TPE331-5, -5A, -5AB, -5B, -5U, -6, -6A, -6U, -8, -9, -9U, -10AV, -10N, -10T, -10GT, -10P, -10GP
---	---

Rotation facing drive pad	CW	CW
RPM at 100 percent engine speed	12,175	10,887
Maximum torque (lb-in.)	300	300
T_C , continuous torque		
T_O , torque overload	600	600
T_S , static torque	2,200	2,200
Overhung moment (lb-in.)	500	500
Speed ratio, drive to engine rotor	0.29175	0.26089

C. Tachometer Generator

All Models

Type of drive: (one each)

AND20005 Type XV-B
(Modified)

AND drive modifications

Shorter studs and
thread lengths

Rotation facing drive pad	CW
RPM at 100 percent engine speed	4,187
Maximum torque (lb-in.) T_C , continuous torque	7
T_S , static torque	50
Overhung moment (lb-in.)	25
Speed ratio, drive to engine rotor	0.10033

D. Propeller Governor

All Models

Type of drive: (one each)

AND20010 Type XX-A
(Modified)

AND drive modifications

RPM

Rotation facing drive pad	CW
RPM at 100 percent engine speed	3,754
Maximum torque (lb-in.) T_C , continuous torque	125
T_O , torque overload	188
T_S , static torque	N/A
Overhung moment (lb-in.)	125

E. Propeller Pitch Control

Type of drive: (one each)

Mounting pad provided

Overhung moment (lb-in.)

30

NOTE 7: Maximum Allowable Propeller Shaft Torque as Sensed by the Torque Sensor, in Pound Feet

Model TPE331	5 Minute Torque Limit	Maximum Continuous
-3	2470	2206
-3U	"	"
-3UW	"	"
-3W	"	"
-10UA	"	"
-5, -5B	2564	2564
-5U	"	"
-8A, -10T, -10P	"	"
-5A, -5AB, -10GT, -10GP	2773	2564
-6	2040	1878
-6A	"	"
-6U	"	"
-8	"	"
-10AV	"	"
-10N	"	"
-9	2363	2271
-9U	"	"
-10J	3301	3202
-10UJ	"	"
-12JR	"	"
-10A	2470	2363
-10B	"	"
-10	3105	2972
-10G	"	"
-10GR	"	"
-10R	"	"
-10U	"	"
-10UF	"	"
-10UG	"	"
-10UR	"	"
-10UGR	"	"
-12	"	"
-11U	3631	3466
-11UA	"	"
-12UA	"	"
-12UAR	"	"
-12UER	"	"
-12UHR	"	"
-12B	2889	2889
-10UK	2626	2547

NOTE 7: Maximum Allowable Propeller Shaft Torque as Sensed by the Torque Sensor, in Pound Feet
(continued)

Model TSE331	5 Min. Torque Limit	Maximum Continuous
-3U	1777	1481

NOTE 8: Propeller Output Shaft (Bolted Flange) Maximum Speed, Percent (RPM) and Direction of Rotation

<u>TPE331</u>	<u>TPE331</u>	<u>TSE331</u>
-3, -3U, -3UW, -3W, -6, -6A, -6U, -8, -9, -9U, -10A, -10B, -10N, -10UA, -10AV, -10UK, -12B	-5, -5A, -5AB, -5B, -5U, -8A, -10, -10G, -10GR, -10J, -10R, -10U, -10UF, -10T, -10GT, -10UG, -10UGR, -10P, -10GP, -10UJ, -10UR, -11U, -11UA, -12, -12JR, -12UA, -12UAR, -12UER, -12UHR	-3U

Normal Operation	100.0 (2000)	100.0 (1591)	100.0 (2482)
Continuous Operation	101.0 (2020)	101.0 (1607)	101.0 (2507) see NOTE 14
Transient Limit	104.0 (2080) NOTE 22	104.0 (1655) NOTE 22	104.0 (2581)
Rotation, aft looking forward	CW (CCW FOR -10B)	CCW	CW

NOTE 9: Incorporated into NOTE 8.

NOTE 10: Up to 10 percent of the engine airflow is available for bleed air purposes (except during starting).
Of this 10 percent total, 1.2 percent is utilized by the engine mounted anti-icing system.

NOTE 11: These engines meet FAA requirements for adequate turbine disk integrity and rotor blade containment, and do not require external armoring.

NOTE 12: These engines meet FAA requirements for operation in icing conditions within the envelope defined in Part 25 Appendix C.

NOTE 13: Variations in engine configuration and installation components are identified on the engine nameplate by a suffix to the basic model number, i.e., TPE331-3-XXXX and by an engine part number.

The engine part number shown on the engine nameplate identifies specific parts list and/or equipment list which have been demonstrated as compatible with the basic engine during engine certification; however, the operation, functioning, and rigging of these in a specific aircraft must be demonstrated during aircraft certification. Subsequent design change control associated with these factors is the responsibility of the aircraft manufacturer.

NOTE 14: The maximum allowable continuous operating output shaft speed for the TSE331-3U is 2556 rpm (103 percent speed) for 1100^oF interstage turbine temperature (ITT) and below, varying linearly to 2507 rpm (101 percent speed) at 1693^oF (ITT).

NOTE 15: Certain engine parts are life limited. These limits are listed in the FAA-Approved AlliedSignal Service Bulletin TPE331-72-0019 dated December 4, 1972, or later FAA approved revisions for the Model TPE331-3, -5, and -6 series, and TSE331-3 engines; Service Bulletin TPE331-72-0117 dated November 19, 1976, or later FAA approved revisions for the TPE331-8 series and -9 series engines; Service Bulletin TPE331-72-0180 dated February 15, 1978, or later FAA approved revisions for the TPE331-10 and -11 series engines; and Service Bulletin TPE331-72-0476 dated December 15, 1984, or later FAA approved revision for the TPE331-12 series engines.

NOTE 16: The following information should be included, as appropriate, in a suitable aircraft placard or FAA approved flight manual - "Avoid operation between 18 and 28 percent rpm, except for transient occurring during start and shut-down."

NOTE 17: The TPE331-8 and the TPE331-10N series engines are equipped with an integrated fuel control system consisting of an engine driven hydromechanical control and an aircraft mounted electronic engine control which is energized by the aircraft electrical system. This system may be operated in either an Automatic Mode (AUTOMATIC) in which both control components are active or in a Manual Mode (MANUAL) with the electronic engine control de-activated. De-activation of the electronic engine control is accomplished automatically should certain faults develop in the electronic component. The operating limits shown in NOTE 1 are for Automatic Mode operation. When operating in the Manual Mode, the rated EGT shown in NOTE 1 will be 937^oF (503^oC) for the TPE331-8 series engines and 946^oF (508^oC) for the TPE331-10N engine, and will vary as a function of ambient conditions. Consult IM-5117 for other than standard day sea level EGT limits.

NOTE 18: Deleted with Revision 26.

NOTE 19: Deleted with Revision 25.

NOTE 20: Certain TPE331-9 series, TPE331-10 series and TPE331-11 and -12 series engine power management systems may include a Single Redline (SRL) temperature indicating system and an automatic torque and temperature limiting system. At the SRL limit value of 1202^oF (650^oC) these engines will provide a minimum of rated thermodynamic performance. The TPE331-10R, -10GR, -10UR, -10UGR, -12JR, -12UAR, -12UER, and -12UHR engines have the capability of Automatic Performance Reserve (APR) or Restricted Power Reserve (RPR) to provide a thermodynamic power increase. The engines are approved for operation up to an SRL value of; 676^oC for -10R, 669^oC for -10UG/-10UR/-10UGR, and 675^oC for -12JR, 12UAR, -12UER, and -12UHR when the APR/RPR EGT compensator is not powered and APR/RPR is activated with temperature limiting disabled. The aircraft may incorporate EGT compensation which will reduce the indicated EGT to preclude exceeding the EGT limiting set point (650^oC or 660^oC depending on the installation), when APR/RPR is activated.

With the SRL computer inoperative, the EGT limit for the TPE331-9 and -9U engines is 937^oF (503^oC), for TPE331-10, -10G, -10R, -10GR, -10U, and -11UA engines is 1049^oF (565^oC), and for TPE331-10UF, -10J, -10UJ, -10UG, -10UGR, -10UR and -11U engines is 1079^oF (582^oC), and 1085^oF (585^oC) for -12 series engines [except for -12JR and -12UHR engines is 1116^oF (602^oC) at ISA/sea level and will vary as a function of ambient conditions. Consult IM-5117 for off-standard day EGT limits.

The -10A, -10B, -10N, and -12B engines are equipped with an integrated fuel control system consisting of an engine driven hydromechanical control and an aircraft mounted electronic engine control which is energized by the aircraft electrical system. This system may be operated in either an Automatic Mode in which both control components are active, or in a Manual Mode with the electronic engine control de-activated. De-activation of the electronic engine control is accomplished automatically should certain faults develop in the electronic component. The operating limits shown in NOTE 1 are for Automatic Mode operation. When operating in the Manual Mode, the rated EGT shown in NOTE 1 will be 1085⁰F (565⁰C) for the -10A and -10B engines, 946⁰F (508⁰C) for the -10N, and 1085⁰F (585⁰C) for the -12B engine at ISA/sea level and will vary as a function of ambient conditions. Consult IM-5117 for off-standard day EGT limits.

Component interface and installation requirements of the aircraft-installed components are also prescribed in IM-5117.

NOTE 21: Deleted with Revision 26.

NOTE 22: Transient operation of propeller output shaft speed above 104 percent, to a maximum of 106 percent is allowable for fuel control overspeed governor test when the propeller is on the start locks (not applicable to TSE331-3U). Refer to engine maintenance manual for proper procedures and limitations for this test.

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