Time Limits Manual (T-T7000-1RR) 05-10-01-800-801

#### **Critical Part Mandatory Lives**

DESCRIPTION AND OPERATION

Model: Trent 7000-72, 7000-72C Effectivity: TRENT 7000/ALL [ +

RevDate: 10/SEP/2021

Table of contents		
Title		
<u>General</u>		
Life Monitor, Part Numbers and Life Limits		
LP Compressor Rotor Disc Assembly - Maximum Approved Life	<u>)</u>	
LP Compressor Balanced Shaft Assembly - Maximum Approved	<u>d Life</u>	
IP Compressor Shaft Assembly - Maximum Approved Life		
IP Compressor Rear Stub Shaft Assembly - Maximum Approved	<u>d Life</u>	
Assembly of HP Compressor Rotor Discs Shaft - Maximum Appl	roved Life	
HP Compressor Stage 4 Disc - Maximum Approved Life		
Assembly of HP Compressor Stage 5 and 6 Discs and Cone Ro	otor Rear Shaft - Maximum Approved Life	
HP Turbine Disc Front Cover Plate - Maximum Approved Life		
HP Turbine Rotor Disc Assembly - Maximum Approved Life		
IP Turbine Rotor Disc - Maximum Approved Life		
IP Turbine Shaft Assembly - Maximum Approved Life		
LP Turbine Stage 1 Rotor Disc - Maximum Approved Life		
LP Turbine Stage 2 Rotor Disc - Maximum Approved Life		
LP Turbine Stage 3 Rotor Disc - Maximum Approved Life		
LP Turbine Stage 4 Rotor Disc - Maximum Approved Life		
LP Turbine Stage 5 Rotor Disc - Maximum Approved Life		
LP Turbine Stage 6 Rotor Disc - Maximum Approved Life		
LP Turbine Shaft Assembly - Maximum Approved Life		
LP Turbine Rotating Arm Seal - Maximum Approved Life		
Reference		
Task	Title	
task-050000800801	<u>05-00-00-800-801</u>	
task-050001800801	<u>05-00-01-800-801</u>	
subtask-051001890003	<u>05-10-01-890-003</u>	
subtask-051001890021	<u>05-10-01-890-021</u>	
PART-723111001000250000	<u>72-31-11, 01-250</u>	

PART-723121001000250000

PART-723121001000475000

PART-723231001000450000

72-31-21, 01-250

72-31-21, 01-475

72-32-31, 01-450

72-33-21, 01-250
<u>72-41-31, 01-250</u>
<u>72-41-31, 02-250</u>
<u>72-41-31, 03-250</u>
<u>72-41-51, 01-205</u>
<u>72-41-51, 01-250</u>
<u>72-51-31, 01-250</u>
<u>72-51-33, 01-250</u>
<u>72-52-31, 01-250</u>
<u>72-52-31, 02-250</u>
<u>72-52-31, 03-250</u>
<u>72-52-31, 04-250</u>
<u>72-52-31, 05-250</u>
<u>72-52-31, 06-250</u>
<u>72-52-33, 01-250</u>
<u>72-52-34, 01-300</u>

#### TRENT 7000/ALL

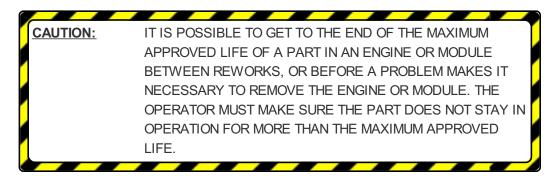
TASK 05-10-01-800-801

#### CRITICAL PART MANDATORY LIVES

## SUBTASK 05-10-01-890-001

- 1. <u>General</u>
  - A. THIS AIRWORTHINESS LIMITATIONS SECTION IS APPROVED BY THE EUROPEAN AVIATION SAFETY AGENCY (EASA) IN ACCORDANCE WITH PART 21.A.31(a)(3) AND CS-E 25(b). ANY CHANGE TO EACH MANDATORY REPLACEMENT TIME, INSPECTION INTERVAL, AND RELATED PROCEDURE CONTAINED IN THIS AIRWORTHINESS LIMITATIONS SECTION MUST ALSO BE APPROVED.





- B. Refer to <u>TASK 05-00-00-800-801</u> General Data, and <u>TASK 05-00-01-800-801</u> Recording and Control of the Lives of Parts.
- C. This task gives the details of the maximum approved lives of Critical Parts.

## SUBTASK 05-10-01-890-002

#### 2. Life Monitor, Part Numbers and Life Limits

A. Life monitor

Refer to <u>TASK 05-00-01-800-801</u> for the data on the Recording and Control of the Lives of Parts.

Declared Safe Cycle Lives (DSCL) are declared in Engine Flight Cycles (EFC).

B. Part numbers

The part numbers given in this task are those that can be seen in the Illustrated Parts Catalog (IPC) for the part or assembly. They are identified by part description; Chapter/Section/Subject and by Fig/Item number in the applicable SUBTASK. The IPC supplied to airlines could be special to their needs, or only applicable for some engine marks. It is possible that a supplied IPC does not contain all the part numbers given in this task.

C. Life limits

Unless specified differently the life limits given in this task are total lives that must be counted continuously for each part from the start of its first operation.

The life limits are shown in <u>SUBTASK 05-10-01-890-003</u> thru <u>SUBTASK 05-10-01-890-021</u>.

## SUBTASK 05-10-01-890-003

#### 3. LP Compressor Rotor Disc Assembly - Maximum Approved Life

A. LP Compressor Rotor Disc Assembly (72-31-11, 01-250).

(<u>72-31-11, 01-250</u>) is the assembly of the LP Compressor Rotor Disc, this is a Critical Assembly and its serial number must be tracked. The assembly has sub-assembly parts, their serial numbers do not need to be tracked.

Part category is:	CRITICAL

KH59799 4640 EFC

# SUBTASK 05-10-01-890-004

- 4. LP Compressor Balanced Shaft Assembly Maximum Approved Life
  - A. LP Compressor Balanced Shaft Assembly ( 72-31-21, 01-250 ).

( <u>72-31-21, 01-250</u> ) is the balanced assembly of the LP Compressor Shaft, this is a Critical Assembly and its serial number must be tracked. The LP Compressor Balanced Shaft Assembly FW60183 ( <u>72-31-21, 01-250</u> ) contains the sub-assembly critical part LP Compressor Shaft Assembly FW57370 ( <u>72-31-21, 01-475</u> ). The life of the LP Compressor Balanced Shaft Assembly ( <u>72-31-21, 01-250</u> ) must always be the same as the life of the sub-assembly critical part LP Compressor Shaft Assembly critical part LP Compressor Shaft Assembly FW57370 ( <u>72-31-21, 01-475</u> ). If the sub-assembly part LP Compressor Shaft Assembly FW57370 ( <u>72-31-21, 01-475</u> ) is ever changed, then the life of the LP Compressor Balanced Shaft Assembly FW60183 ( <u>72-31-21, 01-475</u> ) needs to be changed.

Part category is:	CRITICAL
i ali calegoly is.	ONITIOAL

FW60183

8852 EFC

# SUBTASK 05-10-01-890-005

5. <u>IP Compressor Shaft Assembly - Maximum Approved Life</u>

05-10-01-800-801

A. IP Compressor Shaft Assembly of Rotor Stages 1 to 8 (72-32-31, 01-450).

Part category is:	CRITICAL
KH18436	2900 EFC
LV18447	2900 EFC
LV19601	2900 EFC

## SUBTASK 05-10-01-890-006

- 6. IP Compressor Rear Stub Shaft Assembly Maximum Approved Life
  - A. IP Compressor Rear Stub Shaft Assembly (72-33-21, 01-250).

Part category is:	CRITICAL

KH61415	8852 EFC

## SUBTASK 05-10-01-890-007

- 7. Assembly of HP Compressor Rotor Discs Shaft Maximum Approved Life
  - A. Assembly of HP Compressor Rotor Discs Shaft ( 72-41-31, 01-250 ).

Part category is:	CRITICAL
-------------------	----------

KH19517 1500 EFC

#### SUBTASK 05-10-01-890-008

- 8. HP Compressor Stage 4 Disc Maximum Approved Life
  - A. HP Compressor Stage 4 Disc (72-41-31, 02-250).

Part category is: CRITICAL

KH19635 1500 EFC

## SUBTASK 05-10-01-890-009

- 9. <u>Assembly of HP Compressor Stage 5 and 6 Discs and Cone Rotor Rear</u> <u>Shaft - Maximum Approved Life</u>
  - A. Assembly of HP Compressor Stage 5 and 6 Discs and Cone Rotor Rear Shaft ( <u>72-41-31</u>, <u>03-250</u> ).

Part category is: CRITICAL

KH19634

1500 EFC

## SUBTASK 05-10-01-890-010

- 10. HP Turbine Disc Front Cover Plate Maximum Approved Life
  - A. HP Turbine Disc Front Cover Plate ( 72-41-51, 01-205 ).

Part category is: CRITICAL

KH59279 1500 EFC

#### SUBTASK 05-10-01-890-011

#### 11. HP Turbine Rotor Disc Assembly - Maximum Approved Life

A. HP Turbine Rotor Disc Assembly (72-41-51, 01-250).

(<u>72-41-51</u>, 01-250) is the assembly of the HP Turbine Rotor Disc, this is a Critical Assembly and its serial number must be tracked. The assembly has sub-assembly parts, their serial numbers do not need to be tracked.

Part category is: CRITICAL

KH14275 1500 EFC

## SUBTASK 05-10-01-890-012

#### 12. IP Turbine Rotor Disc - Maximum Approved Life

A. IP Turbine Rotor Disc ( 72-51-31, 01-250 ).

Part category is: CRITICAL

KH20444	3000 EFC
KH62917	3000 EFC

## SUBTASK 05-10-01-890-013

#### 13. <u>IP Turbine Shaft Assembly - Maximum Approved Life</u>

A. IP Turbine Shaft Assembly ( <u>72-51-33, 01-250</u> ).

(<u>72-51-33</u>, 01-250) is the assembly of the IP Turbine Rotor Shaft, this is a Critical Assembly and its serial number must be tracked. The assembly has sub-assembly parts, their serial numbers do not need to be tracked.

Part category is:	CRITICAL
KH51313	8852 EFC
KH62913	8852 EFC

## SUBTASK 05-10-01-890-014

#### 14. LP Turbine Stage 1 Rotor Disc - Maximum Approved Life

A. LP Turbine Stage 1 Rotor Disc (<u>72-52-31, 01-250</u>).

Part category	is:	CRITICAL

KH34200

1500 EFC

## SUBTASK 05-10-01-890-015

- 15. LP Turbine Stage 2 Rotor Disc Maximum Approved Life
  - A. LP Turbine Stage 2 Rotor Disc ( 72-52-31, 02-250 ).

Part category is: CRITICAL

KH34201

1500 EFC

# SUBTASK 05-10-01-890-016

#### <sup>16.</sup> <u>LP Turbine Stage 3 Rotor Disc - Maximum Approved Life</u>

A. LP Turbine Stage 3 Rotor Disc ( 72-52-31, 03-250 ).

Part category is:

CRITICAL

KH34202

1500 EFC

# SUBTASK 05-10-01-890-017

17. LP Turbine Stage 4 Rotor Disc - Maximum Approved Life

A. LP Turbine Stage 4 Rotor Disc (72-52-31, 04-250).

Part category is: CRITICAL

KH76711	
---------	--

1500 EFC

## SUBTASK 05-10-01-890-018

- 18. LP Turbine Stage 5 Rotor Disc Maximum Approved Life
  - A. LP Turbine Stage 5 Rotor Disc ( 72-52-31, 05-250 ).

Part category is: CRITICAL

KH33944 1500 EFC

# SUBTASK 05-10-01-890-019

- 19. LP Turbine Stage 6 Rotor Disc Maximum Approved Life
  - A. LP Turbine Stage 6 Rotor Disc ( 72-52-31, 06-250 ).

Part category is: CRITICAL

KH33945

1500 EFC

## SUBTASK 05-10-01-890-020

#### 20. LP Turbine Shaft Assembly - Maximum Approved Life

A. LP Turbine Shaft Assembly (72-52-33, 01-250).

(<u>72-52-33, 01-250</u>) is the assembly of the LP Turbine Rotor Shaft, this is a Critical Assembly and its serial number must be tracked. The assembly has sub-assembly parts, their serial numbers do not need to be tracked.

Part category is:

CRITICAL

KH13214

7500 EFC

# SUBTASK 05-10-01-890-021

21.

LP Turbine Rotating Arm Seal - Maximum Approved Life

05-10-01-800-801

A. LP Turbine Rotating Arm Seal (<u>72-52-34, 01-300</u>).

Part category is:

CRITICAL

KH20818

1500 EFC

**Critical Part Mandatory Lives** 

05-10-01-800-801

10/SEP/2021