GSAC

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref.: 1996-294(B) R4
In case of any difficulty, reference should be made to the French original issue.

MESSIER-DOWTY SAS

ATR 42 - Main landing gear

Barrel - Swinging lever hinge

1. INVOLVED MATERIAL:

This AD applies to barrels of main landing gears installed on ATR 42-200, -300 and -320 on which SB MESSIER-DOWTY 631-32-145 has not been embodied.

2. ACTIONS:

A. For the barrels on which SB MESSIER-DOWTY 631-32-133 has not been embodied

- 1. In order to prevent a fatigue failure of the main landing gear leg caused by corrosion linked to the quality of refurbishment performed during the overhaul or the repair, the following measures are made mandatory on the effective date of this AD.
 - **1.1.** Within the 2 years following the overhaul or the repair, perform an ultrasonic inspection of the main landing gear legs in accordance with the instructions of the SB MESSIER-DOWTY 631-32-132 and repeat this inspection every:
 - 900 landings for the 24 months following the first ultrasonic inspection.
 - At the end of this 24 months period, every 500 landings for an additional restricted period of 18 months.
 - 1.2. During the next overhaul of the main landing gear leg or within the 42 months following the first ultrasonic inspection, at the first of the two expiration date, perform the inspections and the refurbishment of these legs in accordance with the instructions of SB MESSIER-DOWTY 631-32-145.
- 2. For the same reasons as those exposed in section A, and although no fatigue crack have been detected during the overhaul, the following measures are rendered mandatory for a conservative aim, for the legs which have never been overhauled or repaired.

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2.1 Before November 30, 1997, perform an ultrasonic inspection of the legs which have reached 5 years since the beginning of their use, in accordance with the instructions of SB MESSIER-DOWTY 631-32-132 and repeat this operation every;

ref.:

- 900 landings for the 24 months following the first ultrasonic inspection.
- At the end of this 24 months period, every 500 landings for an additional restricted period of 18 months.
- **2.2** Before 5 years since the beginning of their use, perform an ultrasonic inspection of the legs in accordance with the instructions of the SB MESSIER-DOWTY 631-32-132 and repeat this inspection every:
 - 900 landings for the 24 months following the first ultrasonic inspection.
 - At the end of this 24 months period, every 500 landings for an additional restricted period of 18 months.
- 2.3 During the next overhaul of the main landing gear leg or within the 42 months following the first ultrasonic inspection, at the first of the two expiration date, perform the inspections and refurbishment of the legs in accordance of the instructions of SB MESSIER-DOWTY 631-32-145.

B. For the barrels on which SB MESSIER-DOWTY 631-32-133 has been embodied:

In order to prevent a damage of the anticorrosion protections of the main landing gear barrel due to the rotation of the bushes of the barrel-swinging lever hinge, the following measures addressed to the main landing gear barrels are rendered mandatory at the effective date of this revision 3 AD.

- **1.** During the next A check, perform a visual inspection of the legs in accordance with the instructions of SB MESSIER-DOWTY 631-32-144 and repeat this inspection at each A interval.
- **2.** Within 24 months following the first visual inspection, perform the inspections and refurbisment of these legs in accordance with SB MESSIER-DOWTY 631-32-145.

The completion of the measures required by sections A.1.2, A.2.3 and B.2 ends the current inspection required by sections A.1.1, A.2.1, A.2.2 and B.1 of this AD.

Note: Results of inspection must be reported in accordance with SB MESSIER-DOWTY 631-32-132 and 631-32-144.

3. COMPLIANCE TIME:

Refer to the instructions of the above A and B sections.

4. REFERENCES:

SB Messier-Dowty 631-32-132

SB Messier-Dowty 631-32-133

SB Messier-Dowty 631-32-144

SB Messier-Dowty 631-32-145

and their further approved revisions.

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GSAC	AIRWORTHINESS DIRECTIVE	ref.:	1996-294(B) R4	Page n°	3
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