

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. : 2001-367-062(A)
In case of any difficulty, reference should be made to the French original issue.

EUROCOPTER

SA 316/319 helicopters

Main gearbox - Pinion splines (ATA 05, 40)

1. EFFECTIVITY:

SE 3160, SA 316 B, SA 316 C and SA 319 B helicopters equipped with MGBs, P/Nos.: 319A62-00-000-1 to -4 having the following serial numbers:

- 10007 / 3-10204 / 3-10206 / 3-10272 / 3-10335 / 3-10377 / 3-10382 / 3-10424 / 3-10434 / 3-10437 / 3-10441 / 3-10490 / 3-10574 / 3-10603 / 3-10640 / 3-10663 / 3-10676 / 3-10709 / 3-10710 / 3-10712 / 3-10731 / 3-10751 / 3-10753 / 3-10766 / 3-10804 / 3-10814 / 3-10853 / 3-10902 / 3-10927 / 3-10943 / 3-10950 / 3-10951 / 3-10988 / 3-10989 / 3-110 / 3-11008 / 3-11026 / 3-11104 / 3-11124 / 3-11190 / 3-11210 / 3-11232 / 3-11238 / 3-11301 / 3-11376 / 3-11427 / 3-11511 / 3-11537 / 3-11565 / 3-11571 / 3-11583 / 3-11607 / 3-11608 / 3-11662 / 3-11691 / 3-11694 / 3-11698 / 3-11735 / 3-11775 / 3-2115 / 3-2174 / 3-2217 / 3-2218 / 3-2263 / 3-2267 / 3-2279 / 3-2286 / 3-2300 / 3-2303 / 3-2305 / 3-2307 / 3-2322 / 3-2334 / 3-2345 / 3-2346 / 3-2347 / 3-2348 / 3-2352 / 3-2353 / 3-2354 / 3-2355 / 3-2372 / 3-2373 / 3-2374 / 3-2391 / 3-2399 / 3-2400 / 3-2410 / 3-2411 / 3-2413 / 3-2414 / 3-2415 / 3-2424 / 3-2442 / 3-2445 / 3-2470 / 3-2472 / 3-2481 / 3-2484 / 3-2495 / 3-2500 / 3-2503 / 3-2515 / 3-2545 / 3-2549 / 3-2555 / 3-2573 / 3-2574 / 3-2582 / 3-2584 / 3-2589 / 3-2591 / 3-2594 / 3-2596 / 3-2597 / 3-2616 / 3-2688 / 3-2736 / 3-2741 / 3-2751 / 3-2764 / 3-2769 / 3-2782 / 3-2783 / 3-2818 / 3-2820 / 3-2850 / 3-2852 / 3-2871 / 3-2891 / 3-2896 / 3-2917 / 3-2927 / 3-2934 / 3-2943 / 3-2954 / 3-2955 / 3-2960 / 3-3001 / 3-3090 / 3-3094 / 3-3110 / 3-3131 / 3-3137 / 3-3144 / 3-3166 / 3-3179 / 3-3195 / 3-3217 / 3-3218 / 3-3221 / 3-3232 / 3-3251 / 3-3265 / 3-3279 / 3-3283 / 3-3286 / 3-3299 / 3-3317 / 3-3318 / 3-3319 / 3-3329 / 3-3355 / 3-3358 / 3-3372 / 3-3375 / 3-3633 / 3-431 / 3-536.
- M-2013 / M-2061 / M-2072 / M-2079 / M-2139 / M-2144 / M-2145.
- NT-3378 / NT-3380 / NT-3404 / NT-3423 / NT-3429 / NT-3443 / NT-3447 / NT-3449 / NT-3467 / NT-3474 / NT-3490 / NT-3502 / NT-3509 / NT-3539 / NT-3552 / NT-3560 / NT-3586 / NT-3590 / NT-3620 / NT-3653 / NT-3671 / NT-3676 / NT-3722 / NT-3724 / NT-3729.

Note 1: All the MGBs referenced and listed above have undergone overhaul or repair at the company PILATUS (Overhaul and Repair Shop in Switzerland).

Note 2: The MGBs referenced and listed above that have been overhauled in another agreed workshop following the work carried out by the company PILATUS, (refer to the equipment log card (FME)), are only affected by compliance with paragraph 2.C. "Identification" in the referenced EUROCOPTER Alert Service Bulletin (ASB).

.../...

Note 3: The MGBs referenced and listed above that have undergone overhaul at the company PILATUS after June 30, 2001, are only affected by compliance with paragraph 2.C. "Identification" in the referenced EUROCOPTER Alert Service Bulletin (ASB).

Note 4: The MGBs having a part number that ends with the letter **-V** are not affected by this Airworthiness Directive, even if their serial number is listed above.

2. **REASONS:**

This Airworthiness Directive is issued following an accident involving a SA 315 B helicopter. The accident has been caused due to the loss of the tail rotor power transmission.

The initial cause is the use of an unauthorized product (Loctite sealant) in the drive pinion splined assembly at the time of a revision or repair carried out by the company PILATUS.

3. **MANDATORY ACTIONS AND COMPLIANCE TIME:**

3.1. At the latest within 10 flight hours from the effective date of this Airworthiness Directive, check the magnetic drain plug and the MGB oil filter for particles and reddish deposit and check the angular displacement on the MGB output flange and drain the MGB in compliance with the instructions described in paragraph 2.B.1 in the referenced EUROCOPTER Alert Service Bulletin (ASB),

then:

At the latest within the following 50 flight hours, carry out a second check in compliance with the instructions described in paragraph 2.B.2 in the referenced Alert Service Bulletin (ASB).

3.2. Until the next overhaul of the MGB or repair of the zone concerned in the MGB:

3.2.1. At intervals not exceeding 10 flight hours, check the magnetic drain plug and the MGB oil filter for particles and reddish deposit in compliance with the instructions described in paragraph 2.B.1(a) in the referenced Alert Service Bulletin (ASB).

3.2.2. Each time the MGB is drained, comply with the instructions described in paragraph 2.B.1 in the referenced Alert Service Bulletin (ASB),

then:

Within the following 50 flight hours, comply with the instructions described in paragraph 2.B.2 in the referenced Alert Service Bulletin (ASB).

3.3. Before installing a replacement MGB having a serial number listed in paragraph 1 of this AD on aircraft, comply with the instructions described in paragraphs 3.1. and 3.2. above.

REF.: EUROCOPTER Alert Service Bulletin (ASB) SA 316/319 Alouette III No. 05.99.

This AD has been the subject of a telegraphic diffusion on August 10, 2001.

EFFECTIVE DATE :

Upon receipt of a telegraphic AD issued on AUGUST 10, 2001