

# SERVICE LETTER

SUPPORT AND SERVICES DIVISION  
40220 Tarnos – France  
Tel. (33) (0) 5 59 74 40 00

JFE/ODL/AW

## Service Letter No. 3091/22/ARS2 – 3<sup>rd</sup> issue

This Service Letter supersedes the issue dated, July 29 2022

Subject: **ARRIUS 2F**

**Uncommanded In-Flight Shut Down on EC 120B**

Dear Sir or Madam,

With the previous versions of this Service Letter, Safran Helicopter Engines informed you of an event that occurred on June 1 2022 on an EC 120B powered by an Arrius 2F engine.

During a training flight in a mountainous area, the pilot performed an autorotation further to an uncommanded engine in flight shut down, followed by a hard landing. The helicopter sustained minor damages to its landing gear. Nobody was injured.

The engine was returned to Safran Helicopter Engines for investigation. The main findings were:

- A non-compliant engine flame out margin observed on the engine test bench. After the replacement of the preference injector, the engine flame out margin became compliant.
- A highly non-compliant fuel flow of the preference injector.
- A pollution in the preference injector. This pollution was most probably introduced during the last repair of this preference injector (21 flight hours before the event).

Since August 3<sup>rd</sup>, 2022 (inclusive), Safran Helicopter Engines has modified the repair process of the preference injector to avoid such pollution.

As a corrective action regarding preference injectors repaired before that date, Safran Helicopter Engines recommends the application of the Service Bulletin 319 73 4852.

Please contact us for any further information or assistance.

Yours sincerely,



J.F. ESCURET

Technical Support Department

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