



## INA Service Info



# Defective toothed belt after a short run time

## Incorrect adjustment of the high-pressure fuel pump

Manufacturer: Citroën  
 Ford  
 Opel  
 Peugeot  
 Toyota  
 Vauxhall

Engines: DW 10 F  
 DW 12 R

Part no.: 530 0691 10  
 530 0691 30



Image 1: Toothed belt with loosened tooth mesh

See parts catalogue for current assignment

Following repair work on the cylinder head in the above engine variants, the toothed belt may exhibit severe wear after a relatively short operating time or the indicated damage profile (Image 1) may occur. It is noticeable that only a certain area of the toothed belt is affected. This damage is caused by incorrect adjustment of the high-pressure fuel pump during assembly.

In a four-stroke engine, the tensile loads on the toothed belt vary depending on the torque requirements of the valve train and the high-pressure fuel pump. If the high-pressure fuel pump is adjusted correctly, its greatest torque requirement is placed in an area where the valve train does not require much torque. As a result, the tensile load on the toothed belt drive is relatively uniform.

If the high-pressure fuel pump is adjusted incorrectly, the short-term high torque requirements of both systems may overlap. In this scenario, the tensile load on the toothed belt often rises above the permissible value. The result is rapid partial wear, which damages the toothed belt within a very short time until it fails.

### Note:

In such cases, the adjustment of the high-pressure fuel pump must be checked and corrected in accordance with the vehicle manufacturer's instructions.

Please observe the vehicle manufacturer specifications!

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