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TECHNICAL REPORT

Recommendations for the
installation of hydraulic lifters



PURPOSE

To inform AJUSA customers about the **recommendations to follow after installing new hydraulic lifters** in engine.

DESCRIPTION

Sometimes, when hydraulic lifters are replaced, **at the very beginning you may hear a noise** caused by one or several of them. It is a particular sound and the reason is **because of a complete or partial unload of oil over a lifter**.

When we say a lifter is unloaded, it is because **the high pressure chamber of the lifter has air inside**. As the air is compressible, it allows the piston sinking to the maximum and makes noise when reach this position.

If one or several lifters are unloaded, you will hear a noise at the start of the engine. This **noise will last more or less depending on the lifter capacity to receive the load of oil**, which depends on the general conditions of the engine and more specifically on:

- Engine oil level.
- Quality and type of oil used in engine.
- Condition of oil pipes.
- Condition of the oil pump.



Ajusa supplies all hydraulic lifters loaded with high quality oil to avoid this; nevertheless it is usual that they may be unloaded because of storage or assembly

Once the above points have been checked, there is a series of **recommendations** to ease the load of the lifter at the first engine start after its assembly in case of noise:

- Keep the engine idle for 5 minutes.
- If noise continues, accelerate to 2000 rpm for 3 minutes.
- Keep engine idle for 30 seconds.
- If noise continues accelerate again to 2000 rpm for 3 minutes.
- Keep engine idle for 30 seconds.
- In case noise continues, repeat this operation 4 times more.

