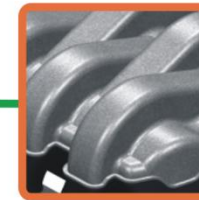
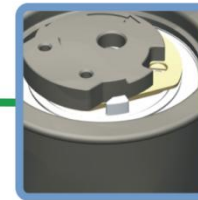
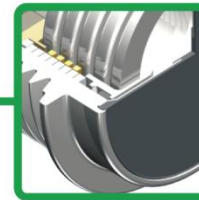


*Counterfeit Tensioner Analysis  
for “06D 109 243B”  
VW/Audi Timing belt tensioner*

February 2013

Delivering Innovation™





## *Competitive Tensioner Analysis - Background*

- Multiple distributors of timing belt tensioners inquired to Litens why their customers could not install this “06D 109 243B” tensioner properly.
- The “06D 109 243B” tensioner sample was obtained from one of the distributor for analysis.
- The following pages summarize Litens’ technical analysis.



# Counterfeit Tensioner Analysis – Part Identifiers

## LITENS

06D 109 243B

## COUNTERFEIT

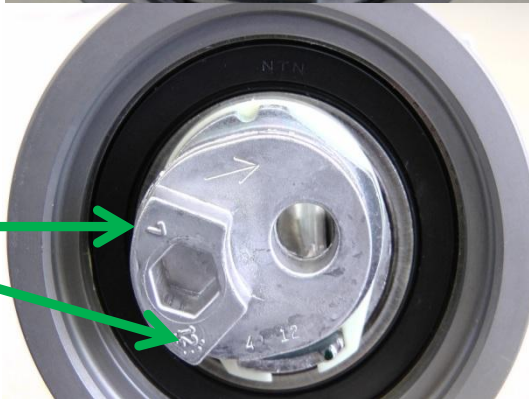
06D 109 243B

Side of index tab not straight trim cut

Grey Pulley



Raised Cavity Identifiers



Side of index tab straight trim cut

Black Pulley



Recessed Cavity Identifiers





## *Counterfeit Tensioner Analysis - Measurements*

**Attempts were made to measure the Counterfeit Timing Belt Tensioner however, due to extremely poor manufacturing of the tensioner it was not able to fit onto the Litens' OE measurement fixture.**



## *Counterfeit Tensioner Analysis – Conclusion*

1. The counterfeit timing belt tensioner (TBT) was very poorly manufactured and showed absolutely no signs of quality control.
2. If this counterfeit TBT was to be installed on an engine, immediate damage would occur.
3. The installation of this counterfeit TBT on a vehicle would be risky with the likelihood of significant failures, customer complaints and immediate comebacks.
4. Note: A TBT failure, as summarized here, would cause a significant engine failure. The possible engine damage would likely include: bent valves, broken timing belt, cylinder head and piston(s) damage.
5. Always confirm the authenticity of the parts you sell or distribute, by purchasing only genuine Litens' products from known authorized distributors.