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**Oil pressure by-pass valve - inspection**

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1. Clean by-pass valve components and plunger bore in timing cover.
2. Check plunger and bore for scoring and that plunger slides freely in bore with no perceptible side movement.
3. Check by-pass valve spring for damage and distortion; check spring free length:  
Spring free length = 60.0 mm (2.4 in).

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**Oil pressure relief valve - if fitted - inspection**

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1. Clean relief valve components and piston bore in timing cover.
2. Check piston and bore for scoring and that piston slides freely in bore with no perceptible side movement.
3. Check relief valve spring for damage and distortion; check spring free length:  
Spring free length = 60.0 mm (2.4 in).