

## Coolant loss, engines 152, 157, 278

Topic number	LI01.40-P-057996
Version	1
Design group	01.40 Crankcase, timing case cover, end cover
Date	12-12-2013
Validity	Engines 152, 157, 278
Reason for change	
Reason for block	

**Complaint:**

Engine coolant goes low with no traces.

**Cause:**

Coolant leaking into the engine oil via the molded seal between the timing case and the cylinder crankcase.

**Remedy:**

Checks to be performed:

- Check for external coolant leakage
  
- Check spark plug holes for cracks
  
- Check for presence of coolant in engine oil
  
- Pressurize coolant circuit at operating temperature while inspecting the combustion chambers with a light probe
  
- If above steps do not disclose potential issues - fill coolant up to maximum level and determine the quantity consumed at the next workshop visit by topping up again

If the checks fail to reveal the cause of the coolant loss, the timing case should be removed and the molded seal between the timing case and the cylinder crankcase should be replaced.

<b>Symptoms</b>							
Power generation / Engine cooling system / Cooling system indicator lamp / Illuminates yellow							
Power generation / Engine cooling system / Cooling system function / Coolant level too low							
Power generation / Engine cooling system / Cooling system display / Coolant - Serviced Required							
Power generation / Engine cooling system / Cooling system leaks / Has coolant loss							

<b>Parts</b>							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other ma-

# XENTRY

							ke part
A 278 015 00 80			Molded seal	1		X	

Validity		
Vehicle	Engine	Transmission
*	278	*
*	152	*
*	157	*