



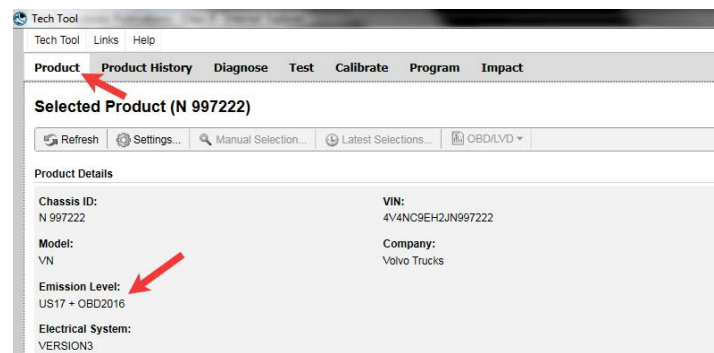
## Solution

**Title (customer effect)** Volvo Chassis - Diagnostic Trouble Code ( DTC ) P0128, Diagnostic And Repair - US14+OBD13 (Commonly Year Model 2015) And Newer

**Cause** P0128-00 Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature) may log in OBD13 and newer chassis; Guided Diagnostics (GD) may result in No Fault Found (NFF).

**Solution** **Verify the chassis emissions level**

- Details can be found in the Product Details box on the Product tab in PTT as seen below:



### For US14+OBD13 Chassis With A D11 Engine

- Refer to Tech Tip [TT-002-2015](#).

### For US14+OBD13 Chassis With A D13 Engine

- EMS Software should be verified to be current.
- The DTC readout and customer complaint should be reviewed to ensure there are no other codes in the EMS or symptoms reported that may be related to P0128A.
  - Any other codes or symptoms should be diagnosed with normal procedures
- The code confirmation status for P0128 should show as TRUE when code details are reviewed on the DTC Readout in Premium Tech Tool ( PTT ).
  - If the confirmed status is TRUE, proceed with diagnostic procedures as normal.

- Ensure the engine is warming up properly to verify the thermostat is not stuck open.
- If the unit is functioning properly and there are no other symptoms, clear the code and release the chassis.

- **If the confirmed status is FALSE, no further diagnosis should be performed and no parts should be changed. Clear the code and release the chassis**

**For OBD15 (Commonly Year Model 2016) Chassis ONLY:**

- Software improvements have been released to address this code. If P0128 is present, software should be checked and updated as necessary.
- Two modules are affected by this update and should be reprogrammed in the following order:
  1. Engine Control Module ( EMS )
  2. Aftertreatment Control Module ( ACM )
- If there are other codes and symptoms present or the code(s) return following the software update, normal diagnostic procedures should be followed to determine the issue.

**For OBD16 Chassis:**

- EMS Software should be verified to be current.
- The DTC readout and customer complaint should be reviewed to ensure there are no other codes in the EMS or symptoms reported that may be related to P0128A.
  - Any other codes or symptoms should be diagnosed with normal procedures
- The code confirmation status for P0128 should show as TRUE when code details are reviewed on the DTC Readout in Premium Tech Tool ( PTT ).
  - If the confirmed status is TRUE, proceed with diagnostic procedures as normal.
    - Ensure the engine is warming up properly to verify the thermostat is not stuck open.
    - If the unit is functioning properly and there are no other symptoms, clear the code and release the chassis.
  - **If the confirmed status is FALSE, no further diagnosis should be performed and no parts should be changed. Clear the code and release the chassis**

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Solution visibility	Dealer distribution
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### Function(s)/component(s) affected

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Function affected	engine , cooling , thermostat , Diagnostic tool
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### Function Group

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Function Group	262 coolant pump and thermostat
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### Customer effect

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Main customer effect	calibration/programming/pairing/missing operation , diagnostics/methodology , fault code/display
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Fluid implicated	coolant
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Lights/Messages on information display	LEDs
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### Administration

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Author	a175606
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Last modified by	RU4469V
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Status	Published
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### NA\_VOLVO\_Vehicle\_Range

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NA_VOLVO_Vehicle_Range	Conventional , VNL , VNM , VHD , VAH
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### Engine family

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Engine family	Volvo , 11L Engine
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### Emission Standard

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Emission Standard	US15
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