Technical Bulletin #1498

Transmission: *6L80/6L90*
Subject: *Excessive TCC Slip, Possible DTC P0741*
Application: *GM*
Issue Date: *December, 2012*

6L80/6L90
Excessive TCC Slip, Possible DTC P0741

On high mileage 6L80/6L90 applications an excessive TCC slip condition may occur and code P0741 is set. This is caused by the friction material in the torque converter delaminating. Replace the Torque Converter if damage has occured.

The code will set if:

- DTC's P0101, P0102, P0103, P0121, P0122, P0123, P0716, P0717, P0722, P0723, P0742, P2762, P2763, or P2764 are not set.
- Ignition voltage is 8.6 volts or greater.
- The engine run time is greater than 5 seconds.
- The transmission fluid temperature (TFT) is 20°-130°C (68°-266°F).
- The accelerator pedal position signal is valid.
- The throttle position is greater than 8%.
- The TCM must receive a valid torque signal from the ECM.
- The engine torque is greater than 50 N•m (36 lb ft).
- The TCC is commanded ON and PWM duty cycle is greater than 60% for 5 seconds.
- The following 6L80/6L90 gear ratios are achieved in the specified gear range while the TCC is commanded on:
    - The 2nd gear ratio is between 2.19-2.52.
    - The 3rd gear ratio is between 1.42-1.63.
    - The 4th gear ratio is between 1.07-1.23.
    - The 5th gear ratio is between 0.79-0.91.
    - The 6th gear ratio is between 0.62-0.71.
- The TCC calculated apply pressure is greater than 800 Kpa for 5 seconds.
- The TCM detects TCC slip greater than 125 RPM for 5 seconds when the TCC is commanded on. This must occur 4 times.

If a P0741 set the TCM will:

- DTC P0741 is a Type A DTC.
- Inhibit high gear in hot mode.
- The TCM inhibits TCC.
- The TCM freezes transmission adaptive functions.

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