

## Tool Instruction Oil Pressure Test Fitting

4328234R2

---

Tool Number: 12-889-01, 12-889-02



0000312081

Figure 1. Oil Pressure Test Fittings.

### Purpose

Essential tools to assist in testing oil pressure.

### Application(s)

MaxxForce® 11 and 13 (EPA 07)

MaxxForce® 11 and 13 (EPA 10)

2013 - 2014 Navistar® N13 (EPA 10)

## Application(s) (cont.)



**GOVERNMENT REGULATION:** Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (such as filters or rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.

**! WARNING:** To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.


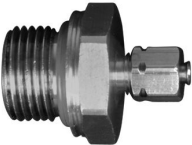
**! WARNING:** To prevent property damage, personal injury, and / or death, read all safety instructions in the “Safety Information” section of the *Engine Service Manual* or *Engine Diagnostic Manual*.

**! WARNING:** To prevent property damage, personal injury, and / or death, always wear safe eye protection when performing vehicle maintenance.



**! WARNING:** To prevent personal injury or death, when routing test leads / hoses, do not crimp or run them too close to moving parts or let them touch hot engine surfaces.

## Tool Contents

Table 1

Image	Tool Number	Qty	Description
 <p>0000312104</p>	12-889-01	1	12 mm Oil Pressure Test Fitting
 <p>0000312121</p>	12-889-02	1	18 mm Oil Pressure Test Fitting

## Tool Contents (cont.)

Image	Tool Number	Qty	Description
 <p>0000312122</p>	12-889-03	1	Oil Pressure Test Fitting Case
 <p>0000160075</p>	4328234R1	1	Tool Instruction

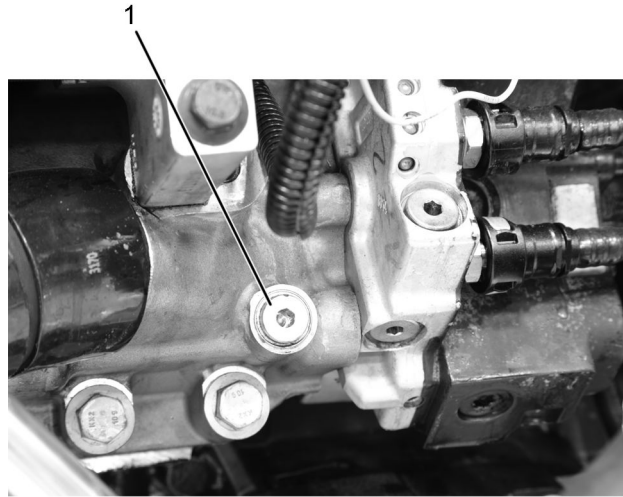
## Instructions

### EPA 07 EMISSIONS ENGINES – 12 MM OIL PRESSURE TEST FITTING

**NOTE: Engine oil level varies depending on temperature of engine. Shut down engine for 5 minutes.**

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral, set parking brake, and install wheel chocks.
3. Unlatch and open hood.

## Instructions (cont.)



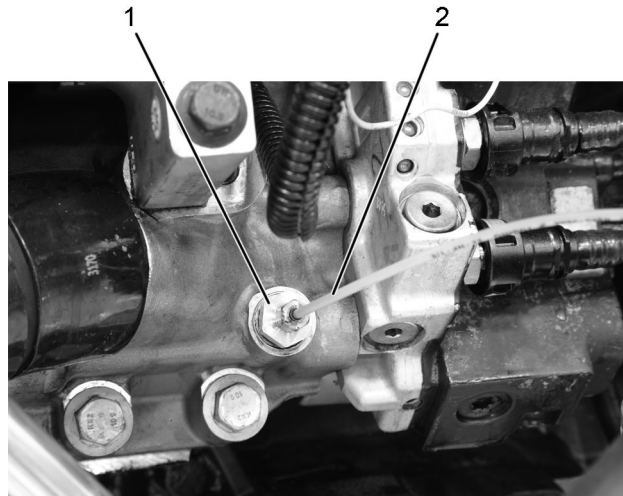
0000312123

**Figure 2. Accessory Drive Port Plug.**

1. Plug

**NOTE: Frame rail removed from graphics for clarity.**

4. Remove plug (Figure 2, Item 1) from accessory drive housing port.



0000312124

**Figure 3. Oil Pressure Test Fitting.**

1. 12-889-01 12 mm Oil Pressure Test Fitting
2. Pressure gauge line

5. Install oil pressure test fitting (Figure 3, Item 1). Tighten fitting securely into port.
6. Install line from oil pressure gauge (Figure 3, Item 2).

## **Instructions (cont.)**

7. Refer to appropriate service manual, service bulletin, or equivalent for detailed testing procedure.
8. Remove oil pressure gauge line (Figure 3, Item 2).
9. Remove oil pressure test fitting (Figure 3, Item 1).
10. Install plug (Figure 2, Item 1) into accessory drive housing port. Tighten plug securely.
11. Close and latch hood.
12. Remove wheel chocks.

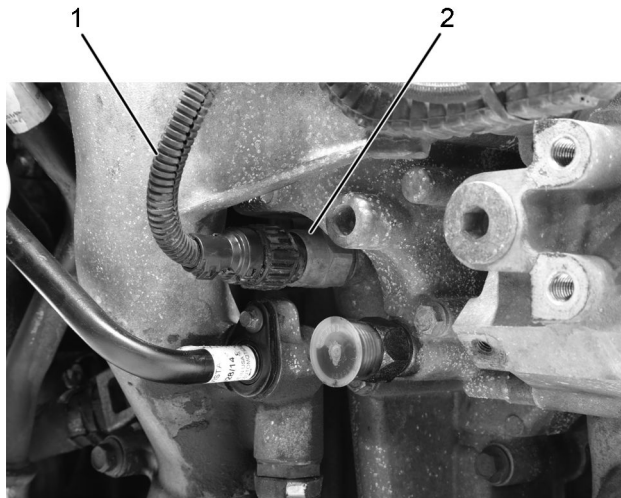
## Instructions (cont.)

### EPA 10 EMISSIONS ENGINES – 18 MM OIL PRESSURE TEST FITTING

**NOTE: Engine oil level varies depending on temperature of engine. Shut down engine for 5 minutes.**

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral, set parking brake, and install wheel chocks.
3. Unlatch and open hood.

#### Engines Equipped with 3012841C\* Turbo Oil Supply Line

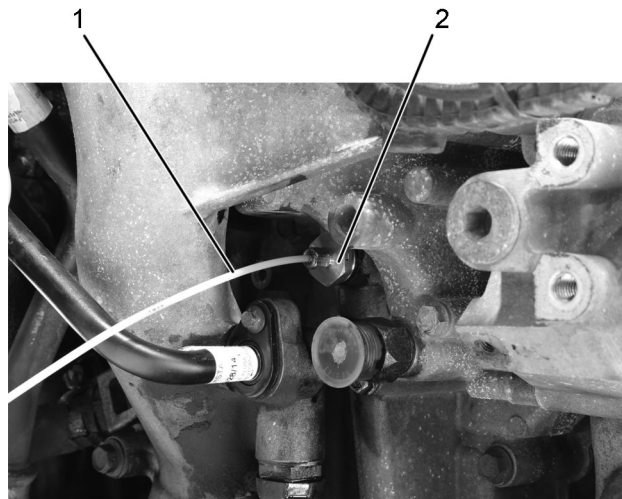


0000312125

**Figure 4. Engine Oil Pressure (EOP) Sensor – 3012841C\* Turbo Oil Supply Line Location.**

1. Engine harness
  2. EOP sensor
- 
1. Disconnect engine harness (Figure 4, Item 1) from EOP sensor (Figure 4, Item 2).
  2. Remove EOP sensor.

## Instructions (cont.)



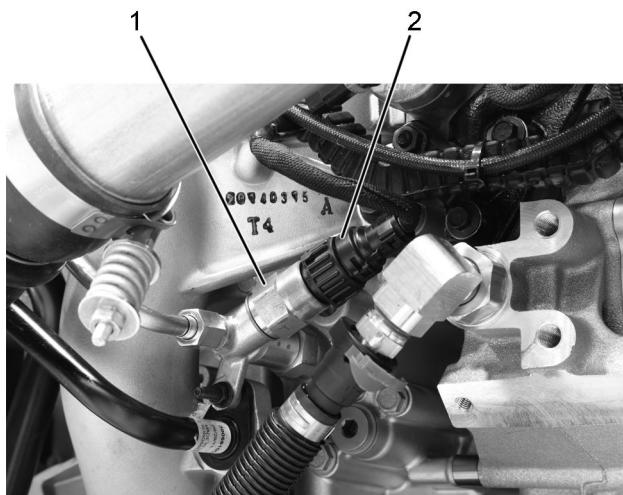
0000312126

**Figure 5. Oil Pressure Test Fitting – 3012841C\* Turbo Oil Supply Line Location.**

1. Pressure gauge line
2. 12-889-02 18 mm Oil Pressure Test Fitting
3. Install oil pressure test fitting (Figure 5, Item 2). Tighten fitting securely into port.
4. Install line from oil pressure gauge (Figure 5, Item 1).
5. Refer to appropriate service manual, service bulletin, or equivalent for detailed testing procedure.
6. Remove oil pressure gauge line.
7. Remove oil pressure test fitting.
8. Install EOP sensor (Figure 4, Item 2) into port. Using torque wrench, tighten sensor to 35 lb-ft (47 N•m).
9. Connect engine harness (Figure 4, Item 1) to EOP sensor (Figure 4, Item 2).
10. Close and latch hood.
11. Remove wheel chocks.

## Instructions (cont.)

### Emission Engines Equipped with 3018397C9\* Turbo Oil Supply Line



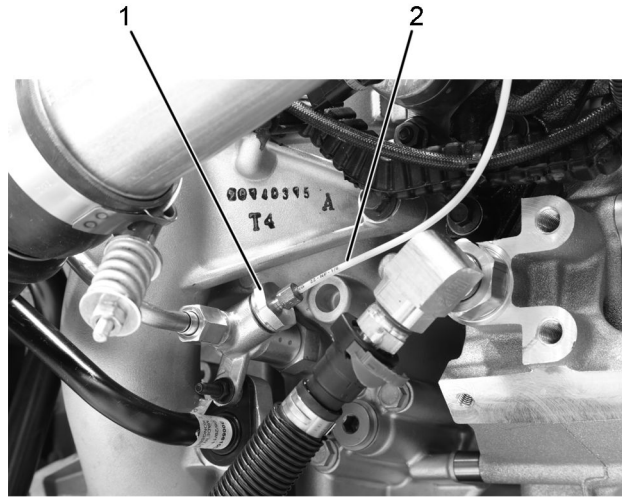
0000312127

**Figure 6. Engine Oil Pressure (EOP) Sensor – 3018397C9\* Turbo Oil Supply Line Location.**

1. EOP sensor
  2. Engine harness
- 
1. Disconnect engine harness (Figure 6, Item 2) from EOP sensor (Figure 6, Item 1).
  2. Remove EOP sensor.



## Instructions (cont.)



0000312128

**Figure 7. Oil Pressure Test Fitting – 3018397C9\* Turbo Oil Supply Line Location.**

1. 12-889-02 18 mm Oil Pressure Test Fitting
2. Pressure gauge line
3. Install oil pressure test fitting (Figure 7, Item 1). Tighten fitting securely into port.
4. Install line from oil pressure gauge (Figure 7, Item 2).
5. Refer to appropriate service manual, service bulletin, or equivalent for detailed testing procedure.
6. Remove oil pressure gauge line.
7. Remove oil pressure test fitting.
8. Install EOP sensor (Figure 6, Item 1) into port. Using torque wrench, tighten sensor to 35 lb-ft (47 N•m).
9. Connect engine harness (Figure 6, Item 2) to EOP sensor.
10. Close and latch hood.
11. Remove wheel chocks.

## Contact Information

If you would like to order additional tools or need replacement parts, please refer to the Navistar Service Tool Catalog. If you have questions, concerns, or feedback, please contact Navistar Service Tool Support Center:

- Submit a Service Tool iKNow Case File.
- Phone: 800-365-0088 (toll free).