



# VehicleMRI™



## 2011 FORD E-450 SUPER DUTY 6.8 V10 (S) GAS

# A+

### Excellent

| Report Summary |                     |
|----------------|---------------------|
| Report Name    | VehicleMRI KOEO     |
| Report Number  | 654                 |
| Report Time    | 03/20/2012 12:03 PM |
| Performed By   | Erik Horn           |
| Company ID     | 55                  |

| Vehicle Information |                   |
|---------------------|-------------------|
| VIN                 | 1FDXE4FS9BDB19045 |
| Year                | 2011              |
| Make                | FORD              |
| Model               | E-450 SUPER DUTY  |
| Engine              | 6.8 V10 (S)       |
| Odometer            | 7996              |
| Vehicle ID          | TT6623D           |

| Other Summary    |                 |
|------------------|-----------------|
| Items Checked    | 126             |
| Duration         | 00:33 (Min:Sec) |
| Device           | EVI-6           |
| Firmware Version | EVI6_01_        |
| Script Version   | 12              |
| Applet Version   | 1.0.0.15        |
| Database Version | 3/19/2012       |

| Category Details             |              |              |                |
|------------------------------|--------------|--------------|----------------|
| Category                     | Overall      | Key On       | Engine Running |
| Report Preconditions         | ✓ PASS       | ✓ PASS       | N/A            |
| Vehicle Information          | ✗ COND FAIL  | ✗ COND FAIL  | N/A            |
| MIL / DTC / IM / Dash Lights | ✓ COND PASS  | ✓ COND PASS  | N/A            |
| Battery                      | ✓ PASS       | ✓ PASS       | N/A            |
| Powertrain Misc.             | ✓ PASS       | ✓ PASS       | N/A            |
| Oxygen Sensors               | ✓ PASS       | ✓ PASS       | NOT SUPPORTED  |
| Evaporative System           | ✓ PASS       | ✓ PASS       | N/A            |
| Temperatures                 | ✓ PASS       | ✓ PASS       | N/A            |
| Fuel Trim                    | ✓ PASS       | ✓ PASS       | N/A            |
| Fuel/Pressure & Rates        | ✓ PASS       | ✓ PASS       | N/A            |
| Load/Torque                  | ✗ NOT GRADED | ✗ NOT GRADED | N/A            |
| Throttle/Accelerator         | ✓ PASS       | ✓ PASS       | N/A            |
| Misfire / Injectors          | N/A          | N/A          | N/A            |
| Transmission                 | N/A          | N/A          | N/A            |
| ABS / Airbag                 | N/A          | N/A          | N/A            |
| Body Misc.                   | N/A          | N/A          | N/A            |



**Report Provided By**  
**demo**  
 Vehicle Research Center, Building 2  
 187 Commerce Drive  
 Scott Township, PA 18447  
 1(570)241-0769

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 Toll Free : 855-2MRI-NOW (855-267-4669) Phone: 570-241-0769 Fax : 855-221-5620 Support: 570-351-1376  
<http://www.vehiclemri.com>



## Failed Items Details

| Report Summary |                     |
|----------------|---------------------|
| Report Name    | VehicleMRI KOEO     |
| Report Number  | 654                 |
| Report Time    | 03/20/2012 12:03 PM |
| Performed By   | Erik Horn           |
| Company ID     | 55                  |

| Vehicle Information |                   |
|---------------------|-------------------|
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| Make                | FORD              |
| Model               | E-450 SUPER DUTY  |
| Engine              | 6.8 V10 (S)       |
| Odometer            | 7996              |
| Vehicle ID          | TT6623D           |

| Other Summary    |                 |
|------------------|-----------------|
| Items Checked    | 126             |
| Duration         | 00:33 (Min:Sec) |
| Device           | EVI-6           |
| Firmware Version | EVI6_01_        |
| Script Version   | 12              |
| Applet Version   | 1.0.0.15        |
| Database Version | 3/19/2012       |

**CRITICAL ALERTS: NONE**

### Failed Items Details

| Test                                   | Value             | Result           | Note   |
|--|-------------------|------------------|--|
| <b>Vehicle Information - COND FAIL</b> |                   |                  |  |
| Mode \$09 - VIN                        |                   | <b>COND FAIL</b> | VIN Mismatch between entered VIN and controller VIN. Check for typos in VIN entry. |
| ECM                                    | 1FDXE4FS9BDB21634 | <b>COND FAIL</b> | VIN Mismatch between entered VIN and controller VIN. Check for typos in VIN entry. |
| Additional Notes                       |                   |                  |  |

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## Report Details

| Test | Value | Result | Note |
|------|-------|--------|------|
|------|-------|--------|------|

## Report Preconditions - PASS

|                        |                              |             |                                    |
|------------------------|------------------------------|-------------|------------------------------------|
| <b>Preconditions</b>   |                              | <b>PASS</b> | All Procedure Preconditions PASSED |
| Engine Speed (Generic) | 0.0 RPM                      |             |                                    |
| Additional Notes       | Engine Speed should be 0 RPM |             |                                    |

## Vehicle Information - COND FAIL

|                        |                   |                  |  |
|------------------------|-------------------|------------------|--|
| <b>Mode \$09 - VIN</b> |                   | <b>COND FAIL</b> | VIN Mismatch between entered VIN and controller VIN. Check for typos in VIN entry. |
| ECM                    | 1FDXE4FS9BDB21634 | <b>COND FAIL</b> | VIN Mismatch between entered VIN and controller VIN. Check for typos in VIN entry. |
| Additional Notes       |                   |                  |  |

|                            |             |  |  |
|----------------------------|-------------|--|--|
| <b>Mode \$09 - CALID's</b> |             |  | It is always a good idea to ensure the software in your vehicles computer systems are up to date. Please consult a qualified technician and visit <a href="http://VehicleMRI.com">VehicleMRI.com</a> for more information. |
| ECM                        | TVAP2M4.H32 |  |  |
| Additional Notes           |             |  |  |

## MIL / DTC / IM / Dash Lights - COND PASS

|                      |     |             |                                       |
|----------------------|-----|-------------|---------------------------------------|
| <b>Commanded MIL</b> | OFF | <b>PASS</b> | No Emissions related DTCs are active. |
| Additional Notes     |     |             |                                       |

|                            |   |             |  |
|----------------------------|---|-------------|--|
| <b>Generic Stored DTCs</b> | 0 | <b>PASS</b> | No Emissions related Error Codes detected. |
| Additional Notes           |   |             |  |

|                             |   |             |  |
|-----------------------------|---|-------------|--|
| <b>Generic Pending DTCs</b> | 0 | <b>PASS</b> | No Emissions related Error Codes detected. |
| Additional Notes            |   |             |  |

|                       |   |             |  |
|-----------------------|---|-------------|--|
| <b>Permanent DTCs</b> | 0 | <b>PASS</b> | No Permanent Emissions related Error Codes detected. |
| Additional Notes      |   |             |  |

|                     |    |             |                               |
|---------------------|----|-------------|-------------------------------|
| <b>Freeze Frame</b> | NO | <b>PASS</b> | No Freeze Frame Data Present. |
| Additional Notes    |    |             |                               |

|                            |               |               |                                     |
|----------------------------|---------------|---------------|-------------------------------------|
| <b>IM Readiness Status</b> | 0             | <b>PASS</b>   | All Supported Monitors are Complete |
| Misfire                    | COMPLETE      | <b>PASS</b>   |                                     |
| Fuel System                | COMPLETE      | <b>PASS</b>   |                                     |
| Comprehensive component    | COMPLETE      | <b>PASS</b>   |                                     |
| Catalyst                   | COMPLETE      | <b>PASS</b>   |                                     |
| Heated Catalyst            | NOT SUPPORTED | NOT SUPPORTED | NOT SUPPORTED                       |
| Evaporative System         | COMPLETE      | <b>PASS</b>   |                                     |
| Secondary Air System       | NOT SUPPORTED | NOT SUPPORTED | NOT SUPPORTED                       |
| Oxygen Sensor              | COMPLETE      | <b>PASS</b>   |                                     |
| Oxygen Sensor Heater       | COMPLETE      | <b>PASS</b>   |                                     |
| EGR System                 | NOT SUPPORTED | NOT SUPPORTED | NOT SUPPORTED                       |
| Additional Notes           |               |               |                                     |

## Report Details

| Test   | Value          | Result           | Note   |
|--|----------------|------------------|--|
| <b>OBD Support Level</b>                         | OBD 1          |                  |  |
| Additional Notes                                 |                |                  |  |
| <b>Distance Traveled While MIL was Activated</b> | 0 mi           | <b>PASS</b>      |  |
| Additional Notes                                 |                |                  |  |
| <b>Number of Warm-Ups Since DTC Clear</b>        | 179.0          | <b>PASS</b>      | Vehicle has warmed up more than 10 times since DTCs were cleared   |
| Additional Notes                                 |                |                  |  |
| <b>Distance Since DTC Clear</b>                  | 7988.97 mi     | <b>PASS</b>      | Vehicle has been driven more than 50 miles since DTCs were cleared.  |
| Additional Notes                                 |                |                  |  |
| <b>Emissions Readiness</b>                       | PASS           | <b>PASS</b>      | If you register this vehicle in a state/county with an emissions inspection program, this vehicle should PASS the Emissions test.  |
| Additional Notes                                 |                |                  |  |
| <b>Mode \$06</b>                                 | 1              | <b>COND PASS</b> | One or more items are Incomplete. A Pass/Fail determination cannot be made at this time. Some Monitors will not display Complete unless the vehicle is running. Run a Drive Cycle to Complete monitor(s) and retest. |
| MODE06   | CHECKED : 59   |                  |  |
| MODE06   | PASS : 58      |                  |  |
| MODE06   | FAIL : 0       |                  |  |
| MODE06   | INCOMPLETE : 1 |                  |  |
| Additional Notes                                 |                |                  |  |

## Battery - **PASS**

|  |             |             |                                |
|--|-------------|-------------|--------------------------------|
| <b>Control Module Voltage</b>                | 12.67 Volts | <b>PASS</b> | Voltage is within normal range |
| Additional Notes                             |             |             |                                |
| <b>Battery Voltage (No Load)</b>             |             | <b>PASS</b> |                                |
| MIN  | 12.76 Volts | <b>PASS</b> |                                |
| MAX  | 12.82 Volts | <b>PASS</b> |                                |
| AVG  | 12.79 Volts | <b>PASS</b> | Voltage is within normal range |
| Peak-To-Peak                                 | 0.06 Volts  |             |                                |
| Standard Deviation                           | 0.01 Volts  |             |                                |
| Additional Notes                             |             |             |                                |
| <b>Battery Voltage Under Load</b>            |             | <b>PASS</b> |                                |
| MIN  | 12.26 Volts | <b>PASS</b> |                                |
| MAX  | 12.34 Volts |             |                                |
| AVG  | 12.3 Volts  | <b>PASS</b> |                                |
| Peak-To-Peak                                 | 0.08 Volts  |             |                                |
| Standard Deviation                           | 0.02 Volts  |             |                                |
| Additional Notes                             |             |             |                                |
| <b>Highest Battery Voltage While Testing</b> | 14.42 Volts | <b>PASS</b> |                                |
| Additional Notes                             |             |             |                                |

## Powertrain Misc. - **PASS**

|                      |             |             |   |
|----------------------|-------------|-------------|---|
| <b>Baro Pressure</b> | 29.83 in Hg | <b>PASS</b> | Should be atmospheric pressure, about 29.50 in Hg depending on altitude and weather conditions. |
|----------------------|-------------|-------------|---|

## Report Details

| Test  | Value    | Result      | Note |
|---|----------|-------------|------|
| Additional Notes                              |          |             |      |
| <b>Engine Speed</b>                           | 0.0 RPM  | <b>PASS</b> |      |
| Additional Notes                              |          |             |      |
| <b>Vehicle Speed Sensor</b>                   | 0 mph    | <b>PASS</b> |      |
| Additional Notes                              |          |             |      |
| <b>Power Take Off</b>                         | PTO OFF  |             |      |
| Additional Notes                              |          |             |      |
| <b>MAF Analysis</b>                           | 0.0 gm/s |             |      |
| Additional Notes                              |          |             |      |
| <b>Ignition Timing Advance for Cylinder 1</b> | 22.0 deg |             |      |
| Additional Notes                              |          |             |      |

## Oxygen Sensors - **PASS**

|   |               |               |  |
|---|---------------|---------------|--|
| <b>O2 Locations</b>                         | UNKNOWN       | <b>PASS</b>   |  |
| \$13 Location of O2 Sensors                 | 13            |               |  |
| \$1D Location of O2 Sensors                 | NOT SUPPORTED | NOT SUPPORTED |  |
| Additional Notes                            |               |               |  |
| <b>Fuel/Air Commanded Equivalence Ratio</b> | 0.999         |               |  |
| Additional Notes                            |               |               |  |
| <b>O2 Sensor Voltage (Location \$13)</b>    |               |               |  |
| \$13, \$1D - O2 Volts, B1 S1                | 0.18 V        |               |  |
| \$13, \$1D - O2 Volts, B1 S2                | 0.11 V        |               |  |
| \$13 O2 Volts, B1 S3                        | NOT SUPPORTED | NOT SUPPORTED |  |
| \$13 O2 Volts, B1 S4                        | NOT SUPPORTED | NOT SUPPORTED |  |
| \$13 O2 Volts, B2 S1                        | 0.18 V        |               |  |
| \$13 O2 Volts, B2 S2                        | NOT SUPPORTED | NOT SUPPORTED |  |
| \$13 O2 Volts, B2 S3                        | NOT SUPPORTED | NOT SUPPORTED |  |
| \$13 O2 Volts, B2 S4                        | NOT SUPPORTED | NOT SUPPORTED |  |
| Additional Notes                            |               |               |  |

## Evaporative System - **PASS**

|                                    |             |             |  |
|------------------------------------|-------------|-------------|--|
| <b>Commanded Evaporative Purge</b> | 0.0 %       | <b>PASS</b> |  |
| Additional Notes                   |             |             |  |
| <b>EVAP System Vapor Pressure</b>  | 0.24 in H2O | <b>PASS</b> |  |
| Additional Notes                   |             |             |  |

## Report Details

| Test | Value | Result | Note |
|------|-------|--------|------|
|------|-------|--------|------|

### Temperatures - **PASS**

|   |              |                     |  |
|---|--------------|---------------------|--|
| <b>ECT to IAT Comparison</b>                | UNDETERMINED | <b>UNDETERMINED</b> | Vehicle is already warmed up, Unable to examine results. |
| Engine Coolant Temp                         | 159.8 °F     | <b>PASS</b>         |  |
| Intake Air Temperature                      | 105.8 °F     | <b>PASS</b>         |  |
| Additional Notes                            |              |                     |  |
| <b>Intake Air Temperature</b>               | 105.8 °F     | <b>PASS</b>         |  |
| Additional Notes                            |              |                     |  |
| <b>Engine Coolant Temperature</b>           | 159.8 °F     | <b>PASS</b>         |  |
| Additional Notes                            |              |                     |  |
| <b>Catalyst Temperature Bank 1 Sensor 1</b> | 417.02 °F    | <b>PASS</b>         |  |
| Additional Notes                            |              |                     |  |
| <b>Catalyst Temperature Bank 2 Sensor 1</b> | 417.02 °F    | <b>PASS</b>         |  |
| Additional Notes                            |              |                     |  |
| <b>Ambient Air Temperature</b>              | 64.4 °F      | <b>PASS</b>         |  |
| Additional Notes                            |              |                     |  |

### Fuel Trim - **PASS**

|                                |         |             |  |
|--------------------------------|---------|-------------|--|
| <b>Short Term Fuel Trim B1</b> | 0.0 %   | <b>PASS</b> |  |
| Additional Notes               |         |             |  |
| <b>Long Term Fuel Trim B1</b>  | 9.38 %  | <b>PASS</b> |  |
| Additional Notes               |         |             |  |
| <b>Short Term Fuel Trim B2</b> | 0.0 %   | <b>PASS</b> |  |
| Additional Notes               |         |             |  |
| <b>Long Term Fuel Trim B2</b>  | 10.94 % | <b>PASS</b> |  |
| Additional Notes               |         |             |  |

### Fuel/Pressure & Rates - **PASS**

|                         |         |             |                                     |
|-------------------------|---------|-------------|-------------------------------------|
| <b>Fuel Level Input</b> | 28.62 % | <b>PASS</b> | Fuel Level is at optimal test level |
| Additional Notes        |         |             |                                     |

### Load/Torque - **NOT GRADED**

|                              |     |  |  |
|------------------------------|-----|--|--|
| <b>Calculated Load Value</b> | 0 % |  |  |
| Additional Notes             |     |  |  |
| <b>Absolute Load Value</b>   | 0 % |  |  |
| Additional Notes             |     |  |  |

### Throttle/Accelerator - **PASS**

|  |         |  |  |
|--|---------|--|--|
| <b>Absolute Throttle Position - Full Throttle Test</b> |         |  |  |
| MAX  | 76.08 % |  |  |
| Additional Notes                                       |         |  |  |

## Report Details

| Test   | Value         | Result        | Note |
|--|---------------|---------------|------|
| <b>Relative Throttle Position - Full Throttle Test</b> |               |               |      |
| MAX  | 63.5 %        |               |      |
| Additional Notes                                       |               |               |      |
| <b>Accelerator Pedal Position B-F</b>                  |               |               |      |
| Absolute Throttle Position B                           | 14.5 %        |               |      |
| Absolute Throttle Position C                           | NOT SUPPORTED | NOT SUPPORTED |      |
| Absolute Throttle Position D                           | 19.99 %       |               |      |
| Absolute Throttle Position E                           | 29.4 %        |               |      |
| Absolute Throttle Position F                           | 17.64 %       |               |      |
| Additional Notes                                       |               |               |      |
| <b>Commanded Throttle Actuator Control</b>             | 0.0 %         |               |      |
| Additional Notes                                       |               |               |      |
| <b>Absolute Throttle Position</b>                      | 17.65 %       | PASS          |      |
| Additional Notes                                       |               |               |      |
| <b>Relative Throttle Postion</b>                       | 5.88 %        | PASS          |      |
| Additional Notes                                       |               |               |      |