



FORD COMPONENT SALES

2.7L DOHC EcoBoost V6 Engine in the F150

Second Generation

Technical Specifications

Engine Type: 2.7L DOHC EcoBoost V6

Cyl Head/Block: Aluminum / Compacted graphite iron

Bore x Stroke In: 3.27 (83mm) x 3.27 (83mm)

Displacement : 2.7L /165 cu.in

Main Bearings: 4

Compression Ratio: 10.0:1

Power HP @ rpm: 325 @ 5,500 (238kW)

Torque lb-ft @ rpm: 400 @ 3,500

Oil Capacity: 6.0 qts or 5.7L (Service fill with oil filter)

Oil Specification: SAE 5W - 30 Synthetic Blend Motor Oil

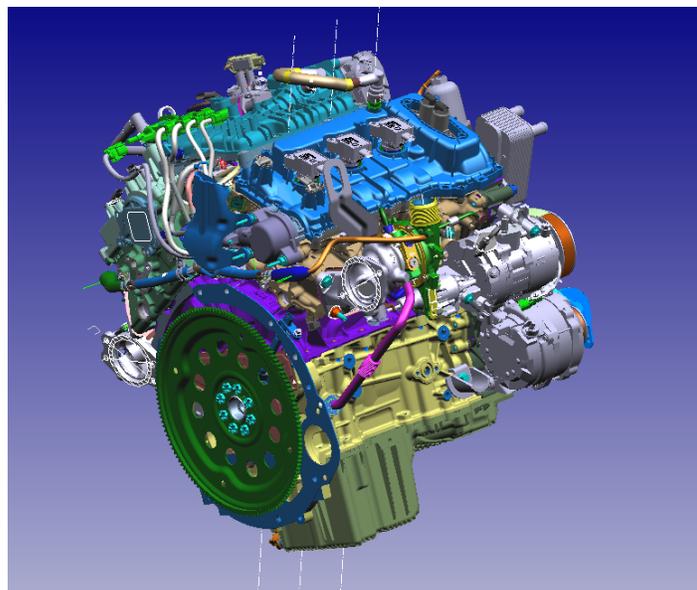
Valve Operation: Roller finger follower

Induction: Twin turbocharged

Fuel Injection: Port Fuel Direct-Injection PFDI dual system

Weight (lbs / Kg.): 409 (189 kg)

Dimensions (mm): 706 x 781 x 661 - H x W x L



[fordcomponentsales](http://fordcomponentsales.com)

Dunton Technical Centre,
Arterial Road, Laindon, Essex, SS15 6EE

 fcseuqry@ford.com

Ford 2.7L DOHC EcoBoost V6 Engine

Key Features & Benefits

Vacuum-actuated parallel twin turbochargers are water-cooled to prevent carbon buildup, also called "coking"

Integrated exhaust manifolds place the turbochargers closer to the exhaust ports for enhanced responsiveness

Reverse cooling system helps lower the exhaust temperature at the turbochargers, contributing up to 18 psi of available boost

Cast-iron camshafts

Fracture-split main-bearing caps create a superior fit between the cap and engine block for reduced crankshaft friction to help enhance operating efficiency

Piston connecting rods use an offset I-beam that provides strength to manage peak engine power levels while reducing weight for better responsiveness

Inter-cooler reduces incoming air temperature

Lightweight, durable composite intake manifold

Smart Charge Alternator

Compacted graphite iron (CGI)/aluminum block enables engine length reduction, high load-carrying capability and excellent crankcase breathing

Saves weight while providing strength where it's needed most for durability

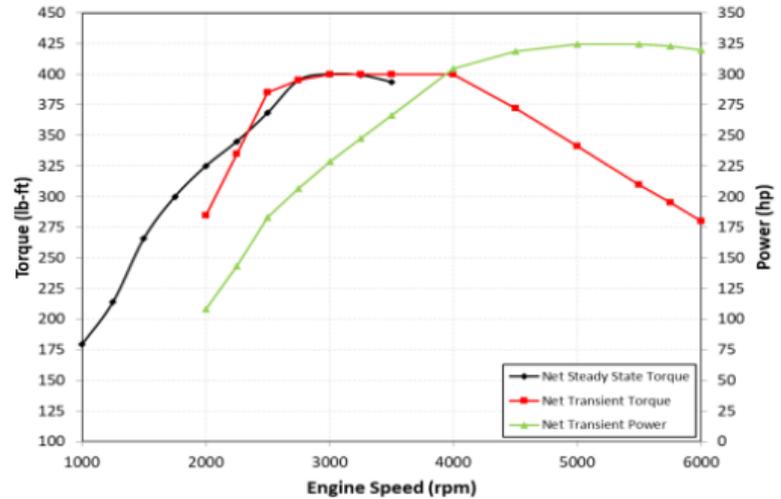
Variable displacement oil pump reduces internal engine friction to enhance operating efficiency

Precisely controls the amount of oil delivered during all driving conditions



SAE CERTIFIED NET POWER RATING 2021 Ford F150 2.7L - 4V TiVCT V6

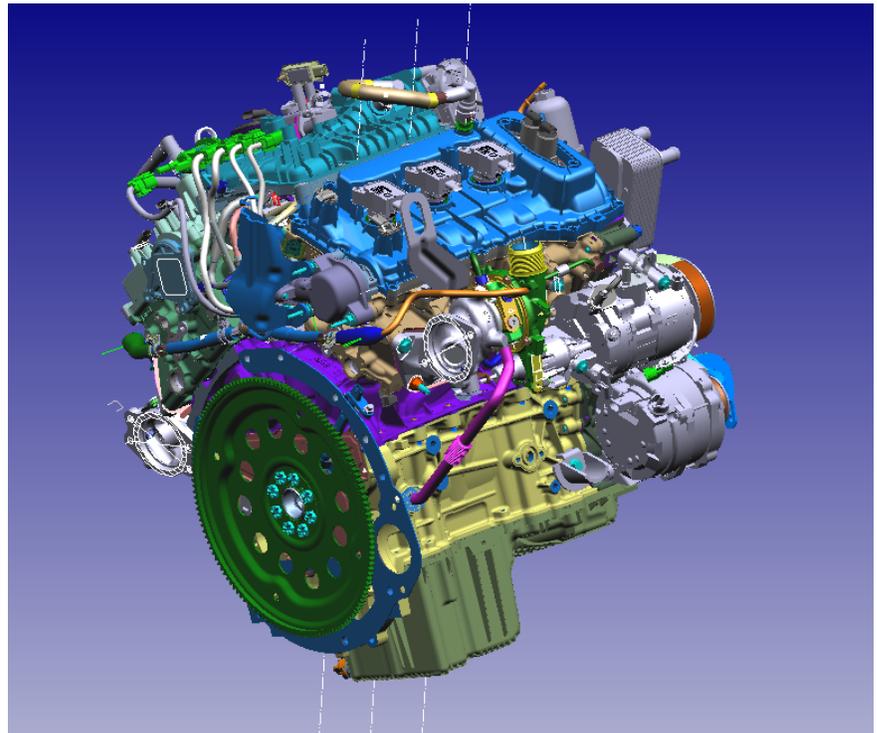
Performance Obtained and Corrected In Accordance with SAE J1349 rev. Sept 2011



SAE Advertised Performance with Regular Fuel

400 lb-ft at 3000 RPM

325 hp at 5000 RPM



Specifications, features, and benefits applicable to engines and transmissions are based on Ford products, and may vary with different applications. Pictures and details shown are for illustrative purposes only (actual product may vary). Powercurve is valid at time of publication. Additionally, the availability of the product(s) described herein may vary. Contact Ford Component Sales, for details.