



FORD COMPONENT SALES

5.0L Ti-VCT 32v V8 Engine F-150

Technical Specifications

Engine Type: 5.0L Ti-VCT 32v V8
Block / Head: Aluminum / Aluminum
Bore x Stroke (in): 3.63 x 3.65
Displacement (litres / cu. in): 5.0L / 307
Main Bearings: 5
Compression Ratio: 12:1
Fuel Injection: Port Fuel Direct-Injection (PFDI) Dual System
Valve Operation: roller finger followers
Induction: Naturally aspirated
Power (HP @ RPM): 400@6,000
Torque (lb.-ft @ RPM): 410 @ 4,250
Oil Capacity / Spec: 7.75 Qts. / SAE 5W-30
Weight (lbs.): 453 / 205.5 Kg (Engine as shipped)
Dimensions (mm) H x W x L: 780 x 797 x 800



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Key Features & Benefits

Dual overhead camshaft (DOHC), lightweight aluminum cylinder heads with 4 valves per cylinder

Cam-torque-actuated twin independent variable camshaft timing (Ti-VCT)

Mid-lock phasers for variable intake camshaft timing allow for a greater range of travel, enabling increased control of airflow for enhanced operational efficiency and emissions

Piston tops feature deep cutouts to accommodate the large valves

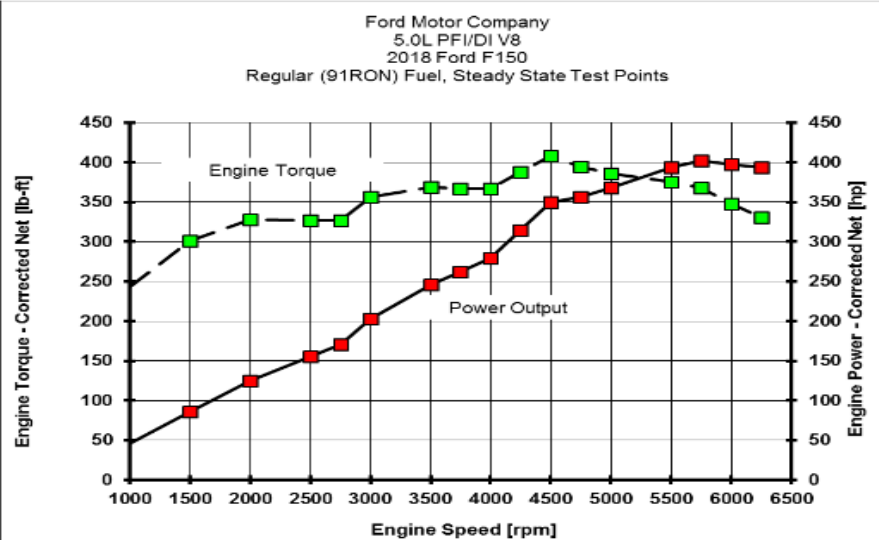
Stiff valve springs ensure the valves close completely at high rpm

Cold air induction system

Cast-iron exhaust manifolds for heavy-duty operation and durability

Intake manifold with charge motion control valves (CMCV) enhances operational efficiency, idle stability and emissions

CMCV partially closes off port flow at lower engine speeds to increase air charge tumble and swirl for enhanced air-fuel mixing



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). Power curves are valid at time of posting. Additionally, the availability of the product(s) described herein may vary. Contact Ford Component Sales, for details.