Cat® 3306 DITA

Net Power (ISO 9249) at 2000 rpm 150 kW/204 hp

Operating Weight 20,580 kg

Operating weight includes: lubricants, coolant, 2-valve hydraulics, 560 mm shoes, 7S Bulldozer, Non-ROPS cab, full fuel tank, and 80 kg operator.
Engineed to excel on the most demanding work sites.
Combining power, rugged components and superior balance, the versatile D7G Series 2 XL is designed for tough working conditions. It keeps material moving with the reliability and durability you expect from Caterpillar® machines.

**Engine**
The Cat® 3306 DITA uses direct injection to control fuel consumption and allows lower engine speeds for reduced stresses and increased life. pg. 4

**Power Train**
With a power train that is designed and built by Caterpillar, the D7G Series 2 XL ensures compatibility, maximum performance and reliability. pg. 4

**Undercarriage**
The Caterpillar® undercarriage is designed for optimized machine balance and best possible performance and component life. pg. 6
**Work Tools**

Work Tools and Ground Engaging Tools provide the flexibility to match the machine to the job, maximizing performance. pg. 7

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**Operator Station**

The operator station is designed with optimum comfort and maximum productivity in mind. pg. 5

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**Serviceability and Total Customer Support**

The most serviceable machines from the most committed dealers. World-class product support. The Cat® Dealer Network trained experts keep your fleet up and running, maximizing your equipment investments. pg. 8
Engine

The Cat® 3306 DITA uses direct injection to control fuel consumption and allows lower engine speeds for reduced stresses and increased life.

Direct Injection. The 3306 maintains good productivity per unit of fuel burned by using direct injection to control fuel consumption. Optimum weight-to-horsepower ratios minimize cycle times, allow larger blade loads and shorter load times. Injector nozzles are non-clogging and adjustment free.

Aluminum Pistons. The 3306 features cam-ground three-ring cast tapered aluminum alloy pistons used to reduce friction, decrease heat build-up and provide excellent oil control. Crankcase journals are hardened and aluminum bearings are steel-backed. The high fatigue aluminum alloy-bearings surface not only has the capability to withstand heavy shock loads during crankshaft rotation, it is also soft enough to allow normal wear of the crankshaft journals.

Valves. Valves are stellite face hardened with hard alloy steel seats for hardness that contributes to long service life.

Rebuildability. The 3306 has the ability to be rebuilt to provide long life.

Power Train

With a power train that is designed and built by Caterpillar, the D7G Series 2 XL ensures compatibility, maximum performance and reliability.

Torque Divider. The torque divider arrangement is a Caterpillar exclusive that provides high torque multiplication when under load with direct drive efficiency when completing lower engine load functions such as backfilling trenches or spreading material.

Power Shift Transmission. Three speeds forward and three speeds reverse, utilizing large diameter, high capacity, oil-cooled clutches.
  • Modulation system permits fast speed and direction changes.
  • Oil-to-water cooler for maximum cooling capacity.
  • Forced oil flow lubricates and cools clutch packs to provide maximum clutch life.
Operator Station
The operator station is designed with optimum comfort and maximum productivity in mind.

Seat. A comfortable suspension seat is able to be adjusted fore and aft for greater operator comfort. Arm rests also help provide comfort for all day operation. Wide 76 mm seat belt is standard.

Directional Controls. Steering and transmission controls are located conveniently to the operator’s left for comfortable operation.

Dozer Blade Controls. The dozer controls are located on the operator’s right hand side.

Walk Through Operator Area. The operator area has a walk through design providing a comfortable operating environment with the controls within easy reach.

Brake Pedal. A single brake pedal actuates both tracks to make operation easier.

Air Conditioner. An optional air conditioner with strategic vents provide a comfortable environment in a variety of weather conditions.

Cab. The optional cab is pressurized to keep dust out. A 3 speed blower fan is standard.

Monitoring System. A machine monitoring system lets you track the following machine systems:
- Fuel level
- Coolant temperature
- Transmission/torque converter temperature
- Service hour meter
- Air cleaner service indicator
- Engine oil pressure and alternator are monitored by a warning lamp and audible alarm system.
**Undercarriage**

*The Caterpillar undercarriage is designed for optimized machine balance and best possible performance and component life.*

**Roller Frames.** The track roller frame is a reinforced box section construction with seven lifetime lubricated track rollers per side and outside mounted carrier rollers, two per side.

**Rollers and Idlers.** Feature symmetric Duo-Cone seals for long sealing life to prevent oil loss and dirt entry. Toric rings maintain performance over a wide range of temperatures. Rollers and idlers are lifetime lubricated, serviceable and rebuildable to provide value. Abutment-style caps securely attach rollers and idlers to the bogies.

All idlers, track and carrier rollers are life-time lubricated and require no periodic maintenance intervals.

**Track Shoes.** Track shoes are available in sizes to match the working conditions.

**Guards.** Front and rear guiding guards are standard.

**Sealed and Lubricated Track.** Minimizes internal bushing wear with the pin by a thin film of lubricant and retained by a polyurethane seal. Extends service life of the undercarriage as a system.
Work Tools

Work Tools and Ground Engaging Tools provide the flexibility to match the machine to the job, maximizing performance.

Bulldozers. All blades feature a strongbox-section design that resists twisting and cracking. Blades are made of Cat DH-2™ steel that has high tensile strength and stands up to the most severe applications. Heavy moldboard construction and hardened bolt-on cutting edges and end bits add strength and durability.

Straight Blade. The straight blade can handle a wide variety of materials including heavy material. With the high kW per meter (hp/ft) of cutting edge, aggressive penetration is achieved.

Angle Blade. The angle blade can be positioned straight or angled 25 degrees to either side making this blade a versatile option.

Semi-Universal Blade. The Semi-Universal blade is built for tough applications where penetration is more important than capacity. The blade wings are designed for superior load retention and penetration in tightly packed materials and for finishing applications.

Multi-Shank Ripper. Multi-shank rippers are made to penetrate tough material fast and rip thoroughly for use in a variety of materials.

Cutting Edges and End Bits. Cutting edges are made of DH-2 steel. End bits are made of DH-3™ steel to provide maximum service life in tough materials.
Serviceability and Total Customer Support

The most serviceable machines from the most committed dealers. World-class product support. The Cat Dealer Network trained experts keep your fleet up and running, maximizing your equipment investments.

Serviceability. Minimizes maintenance and repair downtime. Large openings on either side of the machine make major service points easily accessible.

Machine Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? What is the true cost of lost production? Your Cat Dealer can give you answers to these very important questions.

Product Support. Plan for effective maintenance before buying equipment. Choose from your dealer’s wide range of maintenance services at the time you purchase your machine. Programs such as Custom Track Service (CTS), S•O•S analysis, Technical Analysis and guaranteed maintenance contracts give peak life and performance to your machine.

Parts Program. You will find nearly all parts at your dealer parts counter. Cat Dealers use a worldwide computer network to find in-stock parts to minimize machine downtime. Ask about your Cat Dealer’s exchange program for major components. This can shorten repair time and lower costs.

Remanufactured Components. Genuine Cat Remanufactured parts save you money. You receive the same warranty and reliability as new products at cost savings to further reduce operating costs. Components are available for the drive train, engine, and hydraulics.

Operation. Improving operating techniques can boost your profits. Your Cat Dealer has training videotapes, literature, and other ideas to help you increase productivity.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.
Weights

<table>
<thead>
<tr>
<th></th>
<th>Operating Weight</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20 580 kg</td>
<td>15 650 kg</td>
</tr>
</tbody>
</table>

- Operating weight includes: lubricants, coolant, 2-valve hydraulics, 560 mm shoes, 7S Bulldozer, Non-ROPS cab, full fuel tank, AC and 80 kg operator.
- Shipping weight includes: lubricants, coolant, 1-valve hydraulics, 560 mm shoes and 5% fuel.

Undercarriage

<table>
<thead>
<tr>
<th>Shoe Type</th>
<th>Moderate service (single grouser)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of Shoe</td>
<td>560 mm</td>
</tr>
<tr>
<td>Optional Shoe</td>
<td>510 mm</td>
</tr>
<tr>
<td>Shoes/Side</td>
<td>38</td>
</tr>
<tr>
<td>Grouser Height</td>
<td>70 mm</td>
</tr>
<tr>
<td>Track on Ground</td>
<td>2720 mm</td>
</tr>
<tr>
<td>Ground Contact Area</td>
<td>3.05 m²</td>
</tr>
</tbody>
</table>

Blades

<table>
<thead>
<tr>
<th></th>
<th>SU-Blade Capacity</th>
<th>S-Blade Capacity</th>
<th>A-Blade Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.75 m³</td>
<td>4.2 m³</td>
<td>2.9 m³</td>
</tr>
</tbody>
</table>

Ripper

<table>
<thead>
<tr>
<th></th>
<th>Fixed Parallelogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Fixed Parallelogram</td>
</tr>
<tr>
<td>Number of Pockets</td>
<td>3</td>
</tr>
<tr>
<td>Overall Beam Width</td>
<td>2210 mm</td>
</tr>
<tr>
<td>Maximum Clearance Raised</td>
<td>490 mm</td>
</tr>
<tr>
<td>Maximum Penetration</td>
<td>510 mm</td>
</tr>
</tbody>
</table>

Engine

Cat 3306 DITA

<table>
<thead>
<tr>
<th>Maximum Flywheel Power</th>
<th>164 kW/223 hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Power</td>
<td></td>
</tr>
<tr>
<td>ISO 9249</td>
<td>150 kW/204 hp</td>
</tr>
<tr>
<td>80/1269/EEC</td>
<td>150 kW/204 hp</td>
</tr>
<tr>
<td>Bore</td>
<td>121 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>152 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>10.5 L</td>
</tr>
</tbody>
</table>

- All engine horsepower (hp) are metric including front page.
- Engine ratings at 2000 rpm.
- Net flywheel power is the power available at the flywheel when the engine is equipped with fan, air cleaner, water pump, lubrication oil pump, fuel pump and alternator.
- No altitude deration is required to 4100 m.

Transmission

<table>
<thead>
<tr>
<th></th>
<th>km/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward 1</td>
<td>3.9</td>
</tr>
<tr>
<td>2</td>
<td>6.4</td>
</tr>
<tr>
<td>3</td>
<td>9.9</td>
</tr>
<tr>
<td>Reverse 1</td>
<td>4.5</td>
</tr>
<tr>
<td>2</td>
<td>7.8</td>
</tr>
<tr>
<td>3</td>
<td>12.7</td>
</tr>
</tbody>
</table>

Service Refill Capacities

<table>
<thead>
<tr>
<th></th>
<th>liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>415</td>
</tr>
<tr>
<td>Cooling System</td>
<td>45</td>
</tr>
<tr>
<td>Engine Crankcase</td>
<td>27</td>
</tr>
<tr>
<td>Final Drives (each)</td>
<td>34</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>102</td>
</tr>
<tr>
<td>Transmission, bevel gear and steering clutch compartments, torque converter</td>
<td>70</td>
</tr>
</tbody>
</table>
### Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overall length</td>
<td>4198</td>
</tr>
<tr>
<td>2</td>
<td>Height to top of non-ROPS cab</td>
<td>3294</td>
</tr>
<tr>
<td>3</td>
<td>Height to top of fuel tank</td>
<td>2334</td>
</tr>
<tr>
<td>4</td>
<td>Height to top of exhaust</td>
<td>2942</td>
</tr>
<tr>
<td>5</td>
<td>Height to top of radiator</td>
<td>2120</td>
</tr>
<tr>
<td>6</td>
<td>Height to bulldozer trunnion</td>
<td>481</td>
</tr>
<tr>
<td>7</td>
<td>Distance from rear of tractor to bulldozer trunnion</td>
<td>1124</td>
</tr>
<tr>
<td>8</td>
<td>Rear clearance from rear of tractor</td>
<td>575</td>
</tr>
<tr>
<td>9</td>
<td>Overall width with 560 mm standard shoes</td>
<td>2560</td>
</tr>
<tr>
<td>10</td>
<td>Ground clearance (SAE J894)</td>
<td>349</td>
</tr>
<tr>
<td>11</td>
<td>Track gauge</td>
<td>1981</td>
</tr>
</tbody>
</table>

To overall length (1), add the following dimension for respective attachments:

- Angle bulldozer: 1300 mm
- Straight bulldozer with tilt: 1090 mm
- SU bulldozer: 1650 mm
- No. 7 ripper: 973 mm
- PA57G winch: 1270 mm
Standard Equipment
Standard equipment may vary. Consult your Caterpillar dealer for details.

Electrical
35 amp alternator
Maintenance free battery – 2
Hour meter
Horn

Operator Environment
Decelerator
Gauges
  Fuel level
  Transmission/torque converter oil temperature
  Engine coolant temperature
  Ammeter (lamp)
  Engine oil pressure (lamp and audible)
Hand throttle
Suspension seat – vinyl
Seat belt
Brake pedal – single

Powertrain
Double Reduction Final Drives
Cat® 3306 DITA with 24-volt starter
Fuel priming pump – manual
Fuel/Water separator
Air cleaner with pre-cleaner
Blower fan
Muffler (curved tip)
Power-shift transmission (3F-3R)

Undercarriage
Track End Guiding Guards
6-Roller Track Frame
560 mm Single Grouser Sealed and Lubricated Track
Hydraulic Track Adjusters
Restrained Equalizer Bar
Segmented Sprocket

Other Standard Equipment
Crankcase Guard
Hinged Radiator Guard
415 Liter Fuel Tank
Front Pull Devise and retrieval hitch
Cap Locks (Fuel, Hydraulic, Fuel Drain Cover, Seat Support)

Optional Equipment
Optional equipment may vary. Consult your Caterpillar dealer for details.

Lighting Package
  Forward facing (2)
  Rear facing (2)
Alarm, backup
Heavy duty radiator guard, punched hole
Engine enclosure, normal duty
Engine enclosure, heavy duty
Guard
  Vandal, instrument panel (for canopy)
  Track guiding (center)
  Full length track roller frame
  Crank case, extreme service
Fuel Tank
Hydraulic Tank
Hinged, heavy-duty radiator
Non-ROPS canopy

Non-ROPS cab
Pre-cleaner with pre-screener
610 mm single grouser sealed and lubricated track
Angle bulldozer blade
Straight bulldozer blade with tilt cylinder
Semi-universal bulldozer blade with tilt cylinder
Hydraulics
  One valve
  Two valve
  Three valve
Multi-shank ripper
Drawbar – rigid
Heater
Air Conditioning
Ether start
Start Motor, heavy duty