PRODUCT SPECIFICATIONS FOR 777 (07B)



Engine Model	Cat® C32B
Gross Power - SAE J1995	1025 HP
Net Power - SAE J1349	916 HP
Bore	5.7 in
Stroke	6.4 in
Displacement	1959 in ³
Peak Torque - Speed	1200 r/min
Engine Speed	1800 r/min
Cylinders	12
Engine Power - ISO 14396	1008 HP
Net Torque Rise	Tier 4: 39%. Tier 2: 37%
Note (1)	Power rating applies at 1,800 rpm when tested under the specified condition for the specified standard.
Note (2)	Ratings based on SAE J1995 standard air conditions of 25° C (77° F) and 100 kPa (29.61 Hg) barometer. Power based on fuel having API gravity of 35 at 16° C (60° F) and an LHV of 42 780 kJ/kg (18,390 BTU/lb) when engine used at 30° C (86° F).

Note (3)	Available as Tier 4 Final/Stage V equivalent, Tier 3/Stage IIIA equivalent, or Tier 2/Stage II equivalent emission standards.			
Note (4)	Meets China Nonroad Stage III emission standards equivalent to U.S. EPA Tier 3 or U.S. EPA Tier 2.			
Target Gross Machine	e Weight	363000 lb		
Target Payload (100%)	101.1 ton (US)		
Top Speed - Loaded		40.9 mile/h		
Maximum Working Pa (110%)	ayload	111.2 ton (US)		
Maximum Allowable (120%)*	Payload	121.3 ton (US)		
Body Capacity - SAE 2	:1	83.1 yd³		
Note (1)		Capacity with flat floor X Body with liner.		
Note (2)		* Refer to the Caterpillar 10/10/20 Payload Policy for maximum gross vehicle weight limitations.		

Forward - 1	6.6 mile/h
Forward - 2	9.1 mile/h
Forward - 3	11.9 mile/h
Forward - 4	16.6 mile/h

Forward - 5	22.5 mile/h
Forward - 6	30.2 mile/h
Forward - 7	40.9 mile/h
Reverse	7.5 mile/h
Note	Maximum travel speeds with standard 27.00R49 (E4) tires.
Differential Ratio	2.736:1
Planetary Ratio	7.0:1
Total Reduction Ratio	19.1576:1
Brake Standards	ISO 3450-2011
Brake Surface Area - Fro	nt 6331 in ²
Brake Surface Area - Rea	nr 15828 in ²
Pump Flow - High Idle	120.9 gal/min
Relief Valve Setting - Rai	se 2750 psi
Relief Valve Setting - Lov	ver 500 psi
Body Raise Time - High I	dle 15 s
Body Lower Time - Float	13 s

Struck	54.8 yd³			
Heaped (SAE 2:1)*	78.6 yd³			
Note (1)	Contact your local Cat dea	aler for body recor	mmendation.	
Note (2)	*ISO 6483:1980			
Front Axle - Empty		42 %		
Front Axle - Loaded		33 %		
Rear Axle - Empty		58 %		
Rear Axle - Loaded		67 %		
Rear axle - Oscillation		5.	.4 °	
Empty Loaded Cylinder Stroke Front		2.9 in		
Empty Loaded Cylinder S	roke Rear	2.	.5 in	
Fuel Tank (1)			300 gal (US)	
Fuel Tank (2)			350 gal (US)	
Cooling System			61 gal (US)	
Crankcase			28.7 gal (US)	

Differentials	59.9 gal (US)
Final Drive - Each	20 gal (US)
Steering System - Including Tank	14.1 gal (US)
Brake Hoist System	117 gal (US)
Torque Converter - Transmission System	36.5 gal (US)

Standard Tire	27.00R49 (E4)
Note (1)	Productive capabilities of the 777 truck are such that, under certain job conditions, TKPH (TMPH) capabilities of standard or optional tires could be exceeded and, therefore, limit production.
Note (2)	Caterpillar recommends the customer evaluate all job conditions and consult the tire manufacturer for proper tire selection.
ROPS Standards	Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 ROPS criteria.
FOPS Standards	Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria.
Sound Standards (1)	The operator Equivalent Sound Pressure Level (Leq) is 73 dB(A) when SAE J1166 FEB2008 is used to measure the value for an enclosed cab. This is a work cycle sound exposure level. The cab was properly installed and maintained. The test was conducted with the cab doors and the cab windows closed.
Sound Standards (2)	The exterior sound pressure level for the standard machine measured at a distance of 15 m (49 ft) according to the test procedures specified in SAE J88:2008, mid-gear moving operation is 83 dB(A).

Hearing protection may be needed when operating with an open operator

Sound

Journa	ricaring protection may be neceded when operating with an open operator
Standards (3)	station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.
	extended periods of in a noisy environment.

Turning Diameter - Fron	t	83 ft	
Steering Standards		ISO 5010:20	07
Steer Angle		30.5 °	
Turning Circle - Clearand	ce Diameter	93 ft	
Struck	56.3 yd³		
Heaped (SAE 2:1)*	83.8 yd³		
Note (1)	Contact your local Cat dealer for body	recommendati	on.
Note (2)	*ISO 6483:1980		
SAE 2:1 - For use with m	aterial densities of 1160 kg/m3 (1,950 lb/	yd3)	116.8 yd³
SAE 2:1 - For use with mallb/yd3)	aterial densities of 1040-1160 kg/m3 (1,7	50-1,950	139 yd³
SAE 2:1 - For use with mallb/yd3)	aterial densities of 950-1040 kg/m3 (1,60	0-1,750	144 yd³
SAE 2:1 - For use with m	aterial densities less than 950 kg/m3 (1,6	600 lb/yd3)	164.6 yd³

777 (07B) STANDARD EQUIPMENT NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

Autostall Engine idle shutdown Air-To-Air Aftercooler (ATAAC) Air cleaner with precleaner (2) Automatic cold mode idle control

Electric priming pump

Electric cold weather start (two starters and four batteries)

Ether starting aid

Exhaust, muffler

Fuel filter/water separator

Turbocharger (2)

Braking system:

- Extended Life Brakes
- Brake wear indicator
- Automatic Retarder Control (ARC) (utilizes oil-cooled, multiple disc brakes)
- Brake release motor (towing)
- Manual retarder (utilizes oil-cooled, multiple disc brakes)
- Oil-cooled, multiple disc (front/rear)
- Parking
- Secondary
- Service

Transmission

- Auto neutral idle
- APECS Software
- ECPC

Part Throttle Shifting

- 7-speed automatic powershift with Torque Shift Management Electronic Clutch Pressure Control
- Body up-shift inhibitor
- Directional shift management
- Downshift inhibitor
- Neutral start switch
- Neutral coast inhibitor
- Reverse shift inhibitor
- Reverse neutralizer during dumping
- Programmable top gear selection

SUSPENSION SYSTEMS

Suspension, rear

ELECTRICAL

Alarm, backup

Alternator, 115 ampere

Auxiliary jump start receptacle

Batteries, maintenance-free, 12V (4), 200 amp-hour

Electrical system, 25 AMP, 24V to 12V converter

Lighting system (LED)

- Backup light
- Directional signals/hazard warning, (front and rear)
- Headlights with dimmer
- Payload, indicator lights

- Operator access courtesy lights
- Side profile lights
- Stop/tail lights
- Service lights

OPERATOR ENVIRONMENT

Air conditioning

Ashtray and cigarette lighter

Coat hook

Cup holders (4)

Diagnostic connection port, 24V

Entertainment Radio Ready

- 5 amp converter
- Speakers
- Antenna
- Wiring harness

Gauges/indicators

- Brake oil temperature gauge
- Coolant temperature gauge
- Hour meter
- Tachometer
- Engine overspeed indicator
- Fuel level
- Speedometer with odometer
- Transmission gear indicator

Heater/defroster (11 070 kCal/43,930 BTU)

Auto temp control

Hoist lever

Horn, electric

Light - dome

Light - courtesy

Load counter, automatic

Touchscreen Advisor display

VIMS

Foot rest

Mirrors - heated

Power port, 24V and 12V (2)

ROPS cab, insulated/sound suppressed

Cat Comfort Series III

- Full air suspension
- Retractable 3-point seat belt with shoulder harness

Steering wheel, padded, tilt and telescopic

Storage compartment

Sun visor

Throttle lock

Window, right side, hinged access/egress

Electric left side window control

Windshield wiper (intermittent) and washer

Tinted, laminated glass

TECHNOLOGY PRODUCTS

Product Link Ready (Level 1)

Adaptive economy mode

GUARDS

Engine crankcase

Driveline

Fan and A/C

FLUIDS

Extended Life Coolant to -35° C (-30° F)

OTHER STANDARD EQUIPMENT

Clustered grease fittings

Body mounting group

Body safety pin (secures body in up position)

Body down indicator

CD-ROM parts book

Center-mounted rims

Fuel tank (1136 L/300 gal)

Ground level battery disconnect

Ground level engine shutdown

Ground level grease fittings

Reservoirs (separate)

- Brake/hoist
- Steering
- Transmission/torque converter

Rims 19.5 × 49

Rock ejectors

Supplemental steering (automatic)

Tie down eyes

Tow hooks (front)/Tow pin (rear)

Vandalism protection locks

Wiggins fast fuel

Attachment Zone

777 (07B) OPTIONAL EQUIPMENT NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

OPTIONAL EQUIPMENT

Body heat

Body liners

Body sideboards

Cab precleaner

Cat Engine Brake

Cold weather nackages

Cola Meather packages

Fluid fill service center

HID lights

Mirrors, convex

Spare rim

Visibility package (meets ISO 5006 requirements)

Wheel chocks

Work Area Vision System (WAVS)

OPERATOR ENVIRONMENT

Fluid level monitoring

TPMS

TECHNOLOGY PRODUCTS

TKPH/TMPH (Tons Kilometer Per Hour/Tons Mile Per Hour) Object Detection (4 cameras, 4 radars)

OTHER OPTIONAL EQUIPMENT

Traction Control System (TCS)