

D8T

Track-Type Tractor

The Cat® D8T has a long history of best-in-class versatility, productivity and resale value. Because it excels across a wide range of dozing tasks, customers choose the D8T for everything from dozing, ripping, scraper work and land clearing to rough finish grading. And with features designed for even greater comfort, productivity and fuel efficiency, today's D8T does even more to help you meet your business objectives. The D8T meets U.S. Tier 4 Interim/EU Stage IIIB/ Japan MLIT Step 4 emission standards.

Powerful Productivity

Standard electro-hydraulic controls improve precision and response. Dedicated hydraulics and machine control systems aid overall productivity. Features like Enhanced Auto Shift and a Hydraulic Demand Fan help reduce overall fuel use and operating costs.

Operator Station

Ease of operation, cab comfort and layout help keep operators focused and more productive.

Engine and Emissions Technology

Cat® engine and aftertreatment solutions meet U.S. EPA Tier 4 Interim/EU Stage IIIB/Japan MLIT Step 4 emission standards.



Integrated Electronic Solutions

Caterpillar offers a variety of technologies to significantly enhance machine performance. Cat Product Link™ helps fleet managers maximize utilization and control costs.

Serviceability and Customer Support

Ease of serviceability, Cat dealer support expertise and machine rebuild capability help reduce overall owning and operating costs.



D8T Track-Type Tractor Specifications

Engine

Engine Model	Cat® C15 ACERT™	
Global Emissions	U.S. Tier 4 Interim/ EU Stage IIIB/Japan MLIT Step 4	
Engine Power (Maximum*)		
SAE J1995	271 kW	363 hp
ISO 14396	268 kW	359 hp
ISO 14396 (DIN)	364 hp	
Net Power (Rated**)		
ISO 9249/SAE J1349	237 kW	317 hp
ISO 9249/SAE J1349 (DIN)	322 hp	
Net Power (Maximum*)		
ISO 9249/SAE J1349	248 kW	333 hp
ISO 9249/SAE J1349 (DIN)	338 hp	
Bore	137 mm	5.4 in
Stroke	172 mm	6.75 in
Displacement	15.2 L	928 in ³

*Maximum speed 1,700 rpm.

**Rated speed 1,850 rpm.

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No derating required up to 3566 m (11,700 ft) altitude, beyond 3566 m (11,700 ft) automatic derating occurs.
- All non-road U.S. EPA Tier 4, European Union (EU) Stage IIIB and IV, and Japan (MLIT) Step 4 certified diesel engines are required to use:
 - Ultra Low Sulfur Diesel (ULSD) and Sulfur-Free fuels that are 15 ppm (mg/kg) sulfur or less.
 - Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification.

Service Refill Capacities

Fuel Tank	643 L	170 gal
Cooling System	77 L	20.3 gal
Engine Crankcase*	38 L	10 gal
Powertrain	155 L	41 gal
Final Drives (each)	12.5 L	3.3 gal
Roller Frames (each)	65 L	17.2 gal
Pivot Shaft Compartment	40 L	10.6 gal
Hydraulic Tank	75 L	19.8 gal

* With oil filters.

Weights

Operating Weight		
– Standard	39 795 kg	87,733 lb
– LGP	37 795 kg	83,324 lb
Shipping Weight		
– Standard	30 490 kg	67,219 lb
– LGP	33 600 kg	74,075 lb

- Operating Weight – Standard: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm (24 in) MS shoes, and operator.
- Operating Weight – LGP: Includes hydraulic controls, blade tilt cylinder, drawbar, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, 965 mm (38 in) MS shoes, and operator.
- Shipping Weight – Standard: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 610 mm (24 in) MS shoes.
- Shipping Weight – LGP: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 965 mm (38 in) MS shoes.

Undercarriage

Standard

Shoe Type	Moderate Service	
Width of Shoe	610 mm	24 in
Shoes/Side	44	
Track Rollers per Side	8	
Grouser Height	78 mm	3.1 in
Pitch	216 mm	8.5 in
Ground Clearance	613 mm	24.1 in
Track Gauge	2083 mm	82 in
Length of Track on Ground	3206 mm	126 in
Ground Contact Area	3.91 m ²	6,060 in ²
Ground Pressure (ISO 16754)	89.6 kPa	13.0 psi

LGP

Shoe Type	Moderate Service	
Width of Shoe	965 mm	38 in
Shoes/Side	44	
Track Rollers per Side	8	
Grouser Height	78 mm	3.1 in
Pitch	216 mm	8.5 in
Ground Clearance	613 mm	24.1 in
Track Gauge	2337 mm	92 in
Length of Track on Ground	3206 mm	126 in
Ground Contact Area	6.19 m ²	9,593 in ²
Ground Pressure (ISO 16754)	54.0 kPa	7.8 psi

- Heavy Duty Undercarriage

D8T Track-Type Tractor Specifications

Hydraulic Controls

Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	276 L/min	73 gal/min
Pump Output (Implement)	226 L/min	60 gal/min
Tilt Cylinder Rod End Flow	130 L/min	34 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min
Bulldozer Relief Valve Setting	24 000 kPa	3,480 psi
Tilt Cylinder Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Lift) Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Pitch) Relief Valve Setting	24 000 kPa	3,480 psi
Steering	39 200 kPa	5,700 psi

- Steering Pump output measured at 2,300 rpm (pump speed) and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,850 rpm and 6895 kPa (1,000 psi).
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank with filter, oil cooler, valves, lines, linkage and control levers.

Transmission

1 Forward	3.4 km/h	2.1 mph
2 Forward	6.1 km/h	3.8 mph
3 Forward	10.6 km/h	6.6 mph
1 Reverse	4.5 km/h	2.8 mph
2 Reverse	8 km/h	5 mph
3 Reverse	14.2 km/h	8.8 mph
1 Forward – Drawbar Pull (1000)	618.5 N	139 lbf
2 Forward – Drawbar Pull (1000)	338.2 N	76 lbf
3 Forward – Drawbar Pull (1000)	186.9 N	42 lbf

Blades

Type	8SU	
Capacity (SAE J1265)	8.7 m ³	11.4 yd ³
Width (over end bits)	3940 mm	12.9 ft
Height	1690 mm	5.5 ft
Digging Depth	575 mm	22.6 in
Ground Clearance	1225 mm	48.2 in
Maximum Tilt	883 mm	34.8 in
Weight* (without hydraulic controls)	4789 kg	10,557 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	39 795 kg	87,733 lb

Type	8U	
Capacity (SAE J1265)	11.7 m ³	15.3 yd ³
Width (over end bits)	4267 mm	14 ft
Height	1740 mm	5.71 ft
Digging Depth	575 mm	22.6 in
Ground Clearance	1225 mm	48.2 in
Maximum Tilt	954 mm	37.5 in
Weight* (without hydraulic controls)	5352 kg	11,800 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	40 358 kg	88,974 lb

Type	8A	
Capacity (SAE J1265)	4.7 m ³	6.1 yd ³
Width (over end bits)	4990 mm	16.3 ft
Height	1174 mm	3.85 ft
Digging Depth	628 mm	24.7 in
Ground Clearance	1308 mm	51.5 in
Maximum Tilt	729 mm	28.7 in
Weight* (without hydraulic controls)	5459 kg	12,035 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	40 465 kg	89,210 lb

Type	8SU LGP	
Capacity (SAE J1265)	8.5 m ³	11.1 yd ³
Width (over end bits)	4530 mm	14.8 ft
Height	1622 mm	5.32 ft
Digging Depth	577 mm	22.7 in
Ground Clearance	1222 mm	48.1 in
Maximum Tilt	914 mm	36 in
Weight* (without hydraulic controls)	5146 kg	11,345 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	37 795 kg	83,324 lb

*Includes blade tilt cylinder.

**Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) MS shoes, and operator.

D8T Track-Type Tractor Specifications

Rippers

Type	Single-Shank, Adjustable Parallelogram	
Number of Pockets	1	
Maximum Clearance Raised (under tip, pinned in bottom hole)	636 mm	25 in
Maximum Penetration (standard tip)	1130 mm	44.4 in
Maximum Penetration Force (shank vertical)	127.3 kN	28,620 lb
Pry out Force	222.7 kN	50,070 lb
Weight (without hydraulic controls)	4085 kg	9,005 lb
Total Operating Weight* (with SU-Blade and Ripper)	39 795 kg	87,733 lb
Type	Multi-Shank, Adjustable Parallelogram	
Number of Pockets	3	
Overall Beam Width	2464 mm	97 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	593 mm	23.35 in
Maximum Penetration (standard tip)	780 mm	30.7 in
Maximum Penetration Force (shank vertical)	124.2 kN	27,920 lb
Pry out Force (Multi-Shank Ripper with one tooth)	227.9 kN	51,230 lb
Weight (one shank, without hydraulic controls)	4877 kg	10,752 lb
Additional Shank	332 kg	732 lb
Total Operating Weight* (with SU-Blade and Ripper)	40 587 kg	89,479 lb

*Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) MS shoes, and operator.

Winches

Winch Model	PA14OVS	
Weight*	1790 kg	3,947 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	563 mm	22.2 in
Winch Length	1430 mm	56.3 in
Winch Case Width	1160 mm	45.6 in
Drum Width	320 mm	12.6 in
Flange Diameter	457 mm	18 in
Recommended Cable Size	29 mm	1.13 in
Optional Cable Size	32 mm	1.25 in
Drum Capacity – Recommended Cable Size	84 m	276 ft
Drum Capacity – Optional Cable	59 m	193 ft
Cable Ferrule Sizes – Outside Diameter	60 mm	2.36 in
Cable Ferrule Sizes – Length	70 mm	2.76 in

- Variable speed, hydraulically driven, dual braking system, three roller fairlead.

* Weight: Includes pump and operator controls.

Standards

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 81 dB(A). As measured by ISO 6396: 2008 is 77 dB(A) (North America) and 76 dB(A) (Europe), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open cab (when not properly maintained or doors/windows open) for extended periods and noisy environment.
- 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 APR95, mid-gear-moving operation, is 89 dB(A) for North America. For Europe, the exterior sound pressure level for the machine measured by ISO 6395:2008 is 113 dB(A).

ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II.

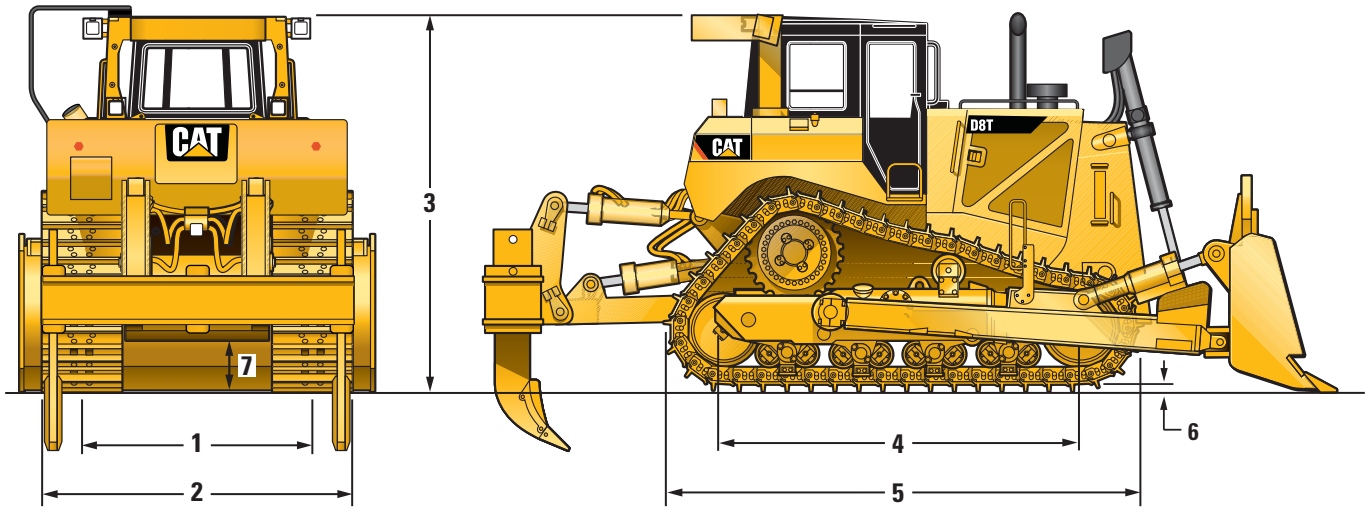
Brakes

- Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008.

D8T Track-Type Tractor Specifications

Dimensions

(approximate)



	Standard		Non-Suspended		LGP*	
1 Track Gauge	2083 mm	82.0 in	2082 mm	82.0 in	2337 mm	92.0 in
2 Width of Tractor						
Over Trunnions	3057 mm	120.4 in	3050 mm	120.1 in	3377 mm	132.9 in
Without Trunnions (standard shoe width)	2642 mm	104.0 in	2642 mm	104.0 in	3302 mm	130.0 in
3 Machine Height, from Tip of Grouser						
Exhaust Stack	3304 mm	130.1 in	3480 mm	137.0 in	3295 mm	129.7 in
EROPS	3500 mm	137.8 in	3491 mm	137.4 in	3491 mm	137.4 in
4 Length of Track on Ground	3206 mm	126.2 in	3258 mm	128.3 in	3206 mm	126.2 in
5 Length of Basic Tractor (tag link trunnion to tip of rear grouser)	4554 mm	179.3 in	4554 mm	179.3 in	4554 mm	179.3 in
With following attachments add:						
Ripper – Single Shank (with tip at ground line)	1519 mm	59.8 in	1519 mm	59.8 in		N/A
Ripper – Multi Shank (with tip at ground line)	1613 mm	63.5 in	1613 mm	63.5 in		N/A
SU Blade	1844 mm	72.6 in	1844 mm	72.6 in	1844 mm	72.6 in
U Blade	2241 mm	88.2 in	2241 mm	88.2 in		N/A
A Blade (not angled)	2027 mm	79.8 in	2027 mm	79.8 in		N/A
A Blade (angled 25 deg.)	3068 mm	120.8 in	3068 mm	120.8 in		N/A
Drawbar	406 mm	16.0 in	406 mm	16.0 in	406 mm	16.0 in
6 Height of Grouser	78 mm	3.1 in	78 mm	3.1 in	78 mm	3.1 in
7 Ground Clearance	613 mm	24.1 in	606 mm	23.8 in	613 mm	24.1 in

*Standard shoe width of D8T LGP with non-suspended undercarriage is 965 mm (38 in).

D8T Track-Type Tractor Standard Equipment

Standard Equipment

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

POWERTRAIN

C15 ACERT diesel engine with
Electronic Unit Injection (EUI)
EPA/ARB Tier 4 Interim, EU Stage IIIB/
Japan MLIT Step 4 Certified Engine
with aftertreatment
24-volt electric start
High performance single plane
cooling system
Aftercooler, air-to-air (ATAAC)
Air filter, with electronic
service indicator
Coolant, extended life
Fan, suction, hydraulically driven
Fuel priming pump, electric
Sound attenuated exhaust system
Parking brake, electronic
Precleaner, strata-tube dust ejector
Prescreener
Shift management
– Automatic directional and downshift
– Controlled-throttle, load-compensated
– Enhanced Autoshift
Starting aid, automatic ether
Torque divider
Transmission, electronically-controlled
– Powershift, 3F/3R speed
Four planet, double-reduction
– Planetary final drives
Transmission control module, electronic
Turbocharger
Water separator

UNDERCARRIAGE

Rollers and idlers, lifetime lubricated
Sprocket rim segments, replaceable
Suspension-type undercarriage
8-roller tubular track roller frame
(Carrier roller ready)
Track adjusters, hydraulic
Track guide
610 mm (24 in) PPR moderate service
grouser with sealed and lubricated
track (44 section)
Two-piece master links

HYDRAULICS

Hydraulics, independent steering and
work tool pumps
Hydraulics, electronically controlled,
load-sensing dozer lift and tilt
Electronically enabled quick drop valve

STARTERS, BATTERIES, AND ALTERNATORS

Alternator, 150 amp
Batteries, heavy duty
Starting receptacle, auxiliary

ELECTRICAL

Alarm, back-up
Converter, 24V to 12V
Diagnostic connector
Horn, forward warning

OPERATOR ENVIRONMENT

ROPS mounted air conditioner
Armrest, adjustable
Advisor operator interface
– Electronic monitoring system
– Diagnostic service information
– Operator preferences
Cab, ROPS/FOPS, sound suppressed
Deactivation switch, hydraulic controls
Access/egress lighting with
shutdown timer
Decelerator pedal
Governor switch, electronic
Heater and ventilation
Mirror, rearview
Radio-ready
Provision for wire passage in/out of cab
Interior LED courtesy lights
Seat, cloth, air-suspension
Seatbelt, retractable
Steering control, direction and
speed control thumb switches
with recall button
Wipers, intermittent

OTHER STANDARD EQUIPMENT

CD ROM Parts Book
Engine enclosures
Equalizer bar, pinned
Front pull device
Guards, bottom hinged
Grade control ready
HVAC box – corrosive resistant
Mounting, lift cylinders
Oil cooler, hydraulic
Product Link
PL321 (Satellite)
PL522 (Cellular)
VIMS 3G (Satellite/Cellular Product Link)
S·O·SSM sampling ports
Steering, electronically controlled
power differential
Vandalism protection for fluid
compartments
Engine compartment service light
Six lights package

D8T Track-Type Tractor Optional Equipment

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

POWERTRAIN

- Reversing fan (dual or single tilt)
- Oil change system, high speed
- Precleaner, turbine
- Fast fuel system
- Service package with powertrain and engine hour meter, ecology drains
- Thermal shield, including insulated CEM

ENGINE

- Standard with EU sound suppression
- Thermal shield
- Thermal shield with EU sound suppression
- Engine coolant – arctic (–51° C/–60° F)

RADIATOR

- 8.5 fins/inch
- 6.35 fins/inch high debris package

HYDRAULICS

- Hydraulics, dual tilt
- Hydraulics, pin puller
- Hydraulics, ripper
- Hydraulics, winch
- Hydraulic implement towing arrangement
- Hydraulic valve fan – cold weather

STARTERS, BATTERIES, AND ALTERNATORS

- Batteries, arctic
- Heater, engine coolant (240V)
- Alternator, 150 amps, ducted

ELECTRICAL

- Premium light package (3 HID, 7 halogen)
- Sweeps light package (8 halogen)
- Light, warning strobe

OPERATOR ENVIRONMENT

- Visibility arrangement, single camera (EU required)
- Enhanced dual pane glass
- Pressurized cab
- Seat, cloth heated/ventilated
- Window shades

INTEGRATED TECHNOLOGY

- AccuGrade Attachment Ready Option
- AccuGrade (dealer installed)
- Computer Aided Earthmoving System (CAES) (dealer installed)

UNDERCARRIAGE

- Standard configuration
- LGP configuration
- Heavy duty undercarriage
 - Suspended
 - Non-suspended
- SystemOne undercarriage
- Powered bottom guard (Standard or LGP)
- Track pairs (44-section) sealed and lubricated, single grouser shoes

POSITIVE PIN RETENTION TRACK

- PPR Track
- PPR Track – guarded
- PPR Track – arctic
- Extreme Service Track –
 - 610 mm, 660 mm, 710 mm, 965 mm (24 in, 26 in, 28 in, 38 in)
- Moderate Service Track –
 - 610 mm, 660 mm, 710 mm, 965 mm (24 in, 26 in, 28 in, 38 in)
- Super Extreme Service Track –
 - 610 mm (24 in)
- Extreme Service Track (trapezoidal hole) –
 - 610 mm, 660 mm, 710 mm, 965 mm (24 in, 26 in, 28 in, 38 in)
- Super Extreme Service Track (trapezoidal hole) –
 - 660 mm (26 in)
- Moderate Service Track (trapezoidal hole) –
 - 710 mm (28 in)

SYSTEMONE TRACK

- Center tread idler
- Conventional idler
- Extreme Service –
 - 610 mm, 660 mm, 710 mm (24 in, 26 in, 28 in)
- Super Extreme Service –
 - 610 mm, 660 mm, 710 mm (24 in, 26 in, 28 in)
- Extreme Service (center hole) –
 - 610 mm, 660 mm (24 in, 26 in)
- Super Extreme Service (center hole) –
 - 610 mm, 660 mm (24 in, 26 in)

ROLLER OPTIONS

- Carrier rollers
 - Suspended
 - Non-suspended
- Seals, arctic, idler/roller
- Rollers, arctic/pins
- Cartridge pins, arctic

GUARDS

- Guard, fuel tank
- Guard, fast fuel
- Guard, center tread idler seals
- Guard, transmission
- Guard, fan debris
- Front striker bars
- Sweeps group

OTHER ATTACHMENTS

- Grab handles, push arm

BLADES

- 8A Angle Blade
- 8U Universal Blade
- 8SU Semi-Universal Blade
- 8SU LGP Semi-Universal Blade
- 8SU Landfill Blade
- 8SU LGP Landfill Blade
- Coal Blade
- Woodchip Blade
- Rock and landfill guards, as well as push plates and wear plates, are available for specific applications

D8T Track-Type Tractor

Optional Equipment (cont'd)

Optional equipment may vary. Consult your Cat dealer for details.

BULLDOZER INSTALLATION PACKAGES

- Standard lift cylinders
- 8A bulldozer
- 8 SU/U dozer, single tilt
- 8 SU/U dozer, single tilt guarded
- 8 SU/U dozer, dual tilt guarded
- 8 LGP dozer single tilt
- 8 LGP dozer single tilt guarded
- 8 LGP dozer dual tilt guarded

OTHER BULLDOZER ATTACHMENTS

- Dual tilt arrangement
- Black paint on back of dozer blade

REAR ATTACHMENTS

- Drawbar, rigid
- Rear counterweight
- Rear counterweight, additional
- Rear striker bars
- Ripper single-shank
- Ripper multi-shank
- Ripper, single- or multi-shank with striker bar
- Pin puller
- Tooth, multi-shank ripper
- Tooth, deep ripping
- Winch – variable speed

SPECIAL ARRANGEMENTS

- Waste Handler Arrangement
- Stockpile Arrangement
- ROPS Omission Arrangement

Materials and specifications are subject to change without notice.

Featured machines in photos may include additional equipment.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.

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