CAT D3C

TRACK-TYPE TRACTOR

- **Power Angle and Tilt blade** — large capacity, improved hydraulics and box-section durability for aggressive dozer performance.
- **Durable undercarriage** — increased component size for improved wear life. Sealed and Lubricated Track.
- **Transmission** — Caterpillar planetary power shift transmission and torque converter for fast speed, direction changes under load.
- **Operator's compartment** — designed to maximize operator comfort and productivity.
- **Total Customer Support** — unmatched in the industry.

■ Cat 3204 NA diesel Engine	
Gross power	54 kW/73 HP
Flywheel power	50 kW/67 HP
■ Blade capacity	1.25 m^3/1.64 yd^3
■ Operating weight	
Standard machine	6817 kg/15,029 lb
LGP arrangement	7621 kg/16,801 lb

Machine shown may have optional equipment.



CATERPILLAR

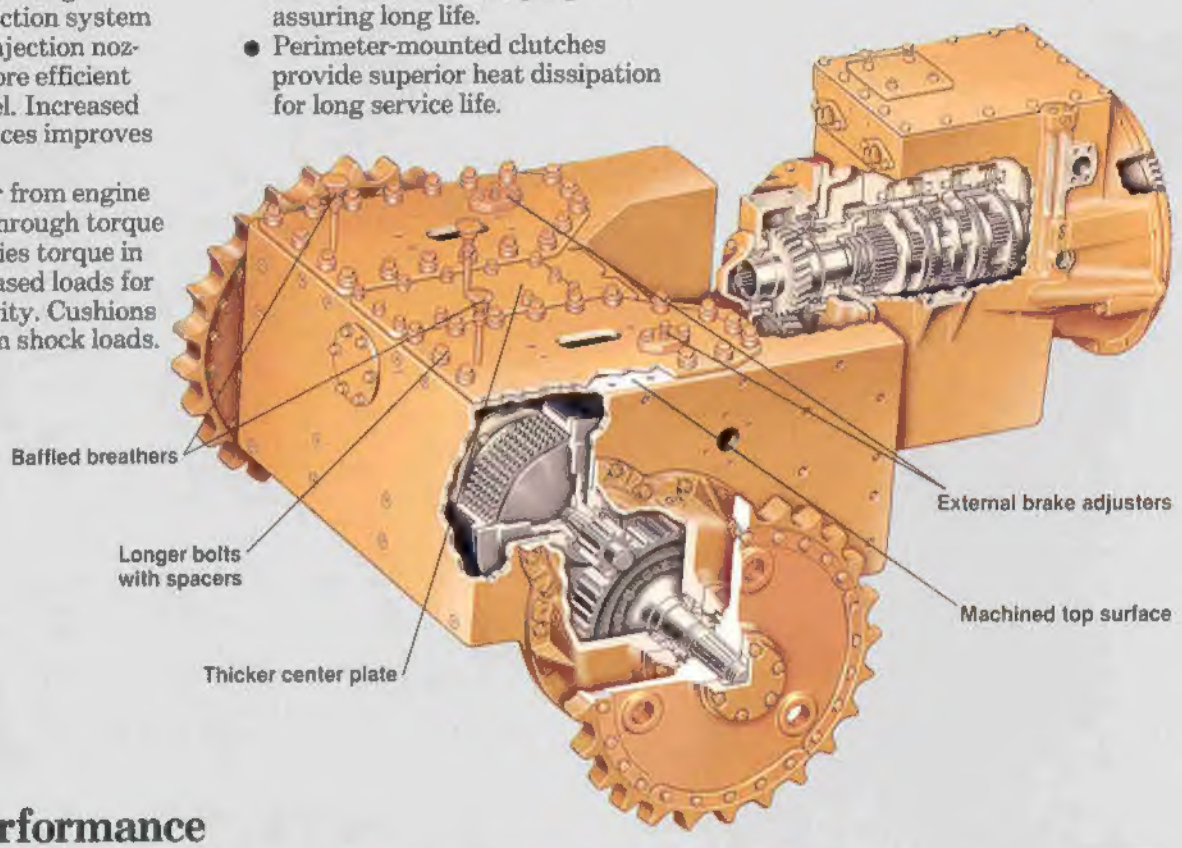
Power Train

Cat 3204 Engine

- High displacement-to-power ratio gives powerful performance and long life.
- Scroll fuel system — high-pressure, fuel injection system utilizes Cat fuel injection nozzles to provide more efficient combustion of fuel. Increased size of nozzle orifices improves spray pattern.
- Transfer of power from engine to transmission through torque converter multiplies torque in response to increased loads for greater productivity. Cushions transmission from shock loads.

Power Shift Transmission

- Fast speed changes.
- Simple shift pattern.
- Planetary design balances loads and stress over multiple gears, assuring long life.
- Perimeter-mounted clutches provide superior heat dissipation for long service life.



Dozing Performance

- Increased track on ground provides more traction and excellent dozing performance.
- Precise, well-modulated dozer controls.
- Low lever effort.
- Powerful hydraulics control lift, dig, angle and tilt functions.
- Versatile Power Angle and Tilt blade designed for all types of dozing — from tough land clearing and pioneering to finish grading.
- Mechanism on blade prevents roll-back or forward pitch.
- Large, box-section dozer and C-frame for maximum durability.
- Increased pin hardness provides superior wear life at blade/pin joints.



Standard Equipment

NOTE: Standard and optional equipment may vary. Consult your Caterpillar Dealer for specifics.

Air cleaner, dry-type.
Alternator, 40-amp.
Blower fan.
Crankcase guard.
Decelerator.
12-volt direct electric starting.
Engine enclosure.
Horn.
Instrument panel lights.
Lifetime Lubricated rollers and idlers.
Mirror, rearview with cab or canopy.
Muffler.
Pedal steering.
Precleaner.
Retrieval hitch.
Seat, adjustable.
Seat belt (Std. with ROPS).
Segmented sprocket.
Track:
  Adjusters, hydraulic.
  Roller frame, 5 roller (Std).
  Sealed and Lubricated, two-piece master links
  (Std.) 37-section
  (LGP) 39-section
Shoes, single grouser
  (Std.) 355 mm/14″ (37)
  (LGP) 635 mm/25″ (39).
Transmission, power shift, with choice of:
  Three speeds forward, one reverse.
  Three speeds forward, three reverse.
Vandalism protection group.

Optional Equipment

(with approximate change in operating weight)

	Kg	Lb
Back-up alarm, required in U.S.A	2	4
Battery, heavy-duty	2.3	5
Bulldozer:		
Power Angle and Tilt, inside mounted arms	992	2187
Cab, ROPS and mounting, includes air pressurizer, air filter, heater, front and rear windshield wipers and washers, rearview mirror, key locks and 75 ampere alternator	625	1378
Canopy, ROPS and mounting, includes rearview mirror	377	831
Cleaner bar	14	30
Counterweights:		
Front mounted	390	860
Idler mounted	136	300
Drawbar, swinging	59	130
Fan, suction	0	0
Guards:		
Radiator, hinged, heavy-duty	7	16
Normal service, hinged	1.4	3
Track guiding, ends only	77	170
Track guiding, end & center	149	330
Hydraulic arrangements: 3 valves	66	145
4 valves	76	167
Lighting system:		
3 lights — 2 front, 1 rear	9	20
Logging sweep	71	156
Precleaner with prescreener	2	4
Pull hook	7	15
Radiators:		
High capacity, copper core	11	25
Trash resistant	1	2
Rear power take-off	18	39
Ripper (includes 3 teeth and hydraulic cylinder)	250	551
Ripper teeth, additional, each	4.5	10
Screens (for use with ROPS canopy):		
Rear	50	110
Side	67	148
Starting aid — Ether	2.7	6
Steering, hand clutch/foot brake	17	37
Steering, oil-cooled brake/clutch	82	180
Suspension seat	2.3	5
Tracks, pair, Sealed and Lubricated		
37-section:		
406 mm/16″ single grouser	68	150
39-section (LGP):		
635 mm/25″ self-cleaning	177	390
Transmission, direct drive (LGP only)	−29	−64
Winch, model 53	433	955

NOTE: All specification conversions are rounded.



Power Angling and Tilt 3P Dozer makes it easy to grade, backfill ditches, landscape or spread fill. You can angle it 25° left or right. Tilt it 8-1/2°. All with two simple controls. One lever controls raise, lower and tilt. The other lever angles the blade left or right. Large capacity enhances productivity in spreading and backfilling applications.

Complete bulldozer consists of multiple box-section, heat-treated moldboard, inside-mounted push arms, trunnions, lift cylinders, brackets, DH-2 steel cutting edges and end bits. Hydraulic controls are required but not included with bulldozer.

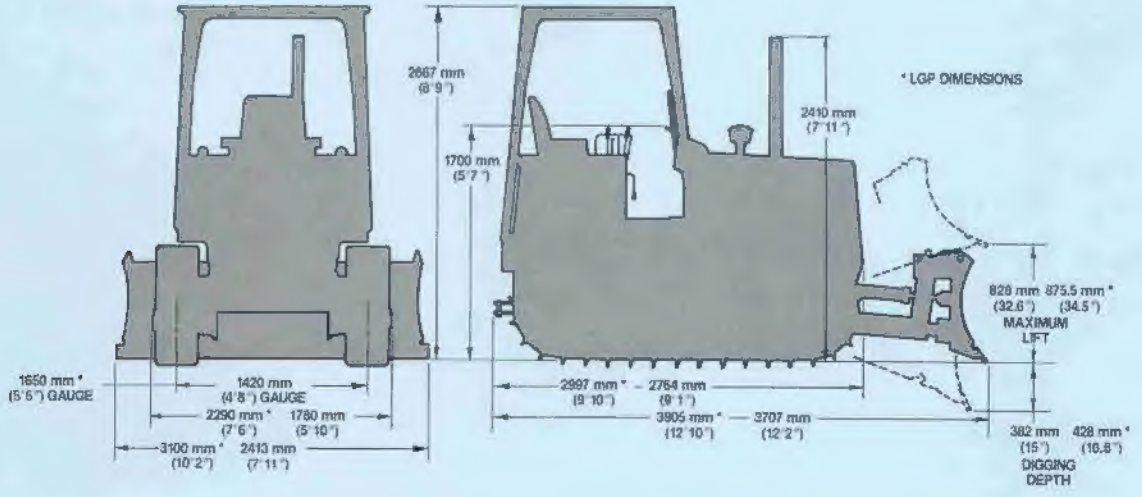
Bulldozer Specifications

	Blade	Capacity m^3 yd^3	Overall Length (tractor w/bulldozer) mm ft	Overall Width (tractor w/bulldozer) mm ft	Height mm in	Digging Depth mm in	Lift Height mm in	Maximum Tilt mm in	Weight (without hydraulic controls) kg lb
Standard	Straight	1.25/1.64	3707/12'2"	2413/7'11"	838/33.0"	382/15.0"	828/32.6"	357/14.1"	992/2,187
	Angled 25°		4181/13'9"	2226/7'4"			1146/45.1"		—
LGP	Straight	1.27/1.67	3905/12'10"	3100/10'2"	739/29.1"	428/16.8"	875.5/34.5"	460/18.1"	1164/2,567
	Angled/ Tilt		4527/14'10"	2853/9'4"			1120/44.1"		

Dimensions (approximate)

Ground clearance ..... 294 mm/11.6"
For shipping dimensions, add 51 mm/2" vertical dimensions to allow for grouser height.

Width without blade (Std) ..... 1780 mm/5'10"
Width without blade (LGP) ..... 2290 mm/7'6"



Hydraulics

Single-section gear pump. System is protected to keep out dirt and includes a full-flow filter. Operating valves are spring-centered, double-spool type. Lines are steel tubing and Cat XT hose and couplings with flared tube connections.

Complete system consists of pump, tank, filter, valves, lines, linkage and actuating levers. Hydraulic systems include:

Three valve ..... Power Angle and Tilt bulldozer
Four valve ..... Power Angle and Tilt bulldozer and rear implement

Pump:

Output @ 6895 kPa/69 bar/**1000 psi** .... 55 liters/min/**14.5 gpm**
RPM @ rated engine speed 2640
Relief valve setting ..... 17 225 kPa/172 bar/**2500 psi**
Drive (constant power) ... Geared from engine timing gear train

Control positions:

Lift cylinders ..... Raise, lower, hold, float
Tilt cylinder ..... Left, right, hold
Angle cylinders ..... Left, right, hold
Ripper cylinder ..... Raise, hold, lower

Sealed and Lubricated Track

Sealed and Lubricated Track reduces internal bushing wear as a maintenance consideration by surrounding the track pin with lubricant. The lubricant is held in place by a sealing arrangement consisting of a polyurethane seal, a rubber load ring and a thrust ring. Two-piece master link and hydraulic track adjusters are standard.

	Standard	LGP
Number of shoes (each side)	37	39
Width of standard shoe (single grouser)	355 mm/14″	635 mm/25″
Length of track on ground	1902 mm/74.9″	2055 mm/80.9″
Ground contact area with standard shoes	1.35 m²/2097 in²	2.6 m²/4051 in²
Gauge	1420 mm/56″	1650 mm/65″
Ground pressure	49.7 kPa/.50 bar/7.2 psi	28.3 kPa/.28 bar/4.1 psi

Weight (approximate)

	Standard	LGP
Shipping weight with coolant, lubricants and 10% fuel	5210 kg/11,486 lb*	5866 kg/12,933 lb*
Operating (includes coolant, lubricants; full fuel tank; operator; ROPS canopy; PAT dozer; hydraulics; three-speed forward, three reverse transmission; 355 mm/14″ track and end guiding guards	6817 kg/15,029 lb*	7621 kg/16,801 lb*

*With three-speed forward/one reverse transmission, deduct 158 kg/348 lb.

Service Refill Capacities

	Liters	U.S. Gallons
Fuel tank	116	30.6
Cooling system	20	5.3
Crankcase	12	3.2
Transmissions: 3 forward, 1 reverse	19	5
3 forward, 3 reverse	28	7.4
Bevel gear case	15	4
Final drives (each) Std	8	2.1
LGP	12	3.2
Hydraulic tank	57	15

Caterpillar Engine

Gross power @ 2400 RPM . . . . . 54 kW/73 HP
Flywheel power @ 2400 RPM . . . . 50 kW/67 HP
(Kilowatts (kW) is the International System of Units equivalent of horsepower.)

Net power at the flywheel of the vehicle engine is based on SAE J1349 standard conditions of 25°C/77°F and 100 kPa/29.61" Hg. Power is based on using 35° API (15.6°C/60°F) gravity fuel having an LHV of 42 780 kJ/kg/18,390 Btu/lb when used at 29.4°C/85°F and with a density of 838,9 g/L/7.001 lb/U.S. gal. Power rating is adjusted for vehicle equipped with fan, air cleaner, water pump, fuel pump, muffler and lubricating oil pump. No derating is required up to 2300 m/7,500 ft. altitude.

These additional ratings also apply at 2400 RPM

	kW	HP
ISO 1585	50.0	67.0
ISO 3046-1	49.6	66.5
EEC 80/1269	50.0	67.0
DIN 6271/1 (Gross)		74 PS
DIN 6271/1 (Flywheel)		68 PS

Caterpillar four-stroke-cycle 3204 diesel Engine with four cylinders, 114 mm/4.5" bore, 127 mm/5.0" stroke and 5.2 liters/318 cu. in. displacement.

Direct-injection fuel system with individual, adjustment-free injection pumps and valves.

Cam-ground and tapered, aluminum-alloy pistons have two rings each. Steel-backed, copper-bonded, aluminum bearings. Hardened crankshaft journals. Pressure lubrication with full-flow filtered and cooled oil. Dry-type air cleaner with primary and secondary elements.

Direct electric, 12-volt starting system with 40-amp alternator.

Decelerator pedal provides increased dozing control and smooth direction and shift changes.

Final Drive

Coarse-pitch, crown-shaved, single-reduction, spur gear final drive.

Steering and Braking

(Braking system meets SAE J1026 JUN82 recommended practice.)

Spring-actuated, hydraulically released, multiple-disc dry clutches. Steering and braking controlled by a foot pedal for each track. Third pedal brakes both tracks, locks down for parking. Optional, oil-cooled steering clutches and brakes are available.

Track Roller Frame

Non-oscillating, box-section construction. Lifetime Lubricated rollers and idlers.

Number of rollers (each side) 5

Transmission

Planetary power shift with choice of three speeds forward, one reverse or three speeds forward, three reverse. High-torque capacity oil clutches permit fast speed and direction changes. Single-stage torque converter integral with power shift transmission.

Travel speeds at rated engine RPM:

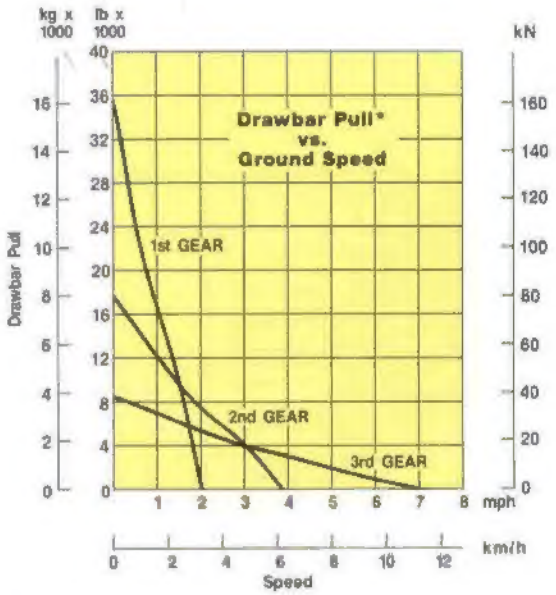
Three forward, one reverse transmission

	1st	2nd	3rd
Forward: Km/h	3.1	5.6	11.4
MPH	1.9	3.5	7.1
Reverse: Km/h	—	5.1	—
MPH	—	3.2	—

Three forward, three reverse transmission

Forward: Km/h	3.1	5.9	10.7
MPH	1.9	3.7	6.7
Reverse: Km/h	3.3	6.3	11.4
MPH	2.0	3.9	7.1

Drawbar Pull* vs. Ground Speed



*Usable pull will depend upon weight and traction of equipped tractor.

ROPS

(ROPS is required in U.S.A.)

ROPS (Rollover Protective Structures) offered by Caterpillar for this machine meet ROPS criteria: SAE J395, SAE J1040c and ISO 3471-1986. They also meet FOPS (Falling Object Protective Structures) criteria SAE J231 JAN81 and ISO 3449-1984.

Cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 FEB87, meets OSHA and MSHA requirements for operator sound exposure limits in effect at the time of manufacture.

Serviceability

- No daily grease points. Only two fittings on tractor require lubrication at 500 service hours.
- Hinged doors allow easy access for routine maintenance, fast removal and installation of components.
- Convenient, spin-on fluid filters vertically mounted for reduced oil spillage.
- Segmented sprocket — replace worn sprocket teeth without breaking track.
- Fast, easy adjustment of optional, oil-cooled brakes. Adjuster conveniently located under operator seat.



Total Customer Support

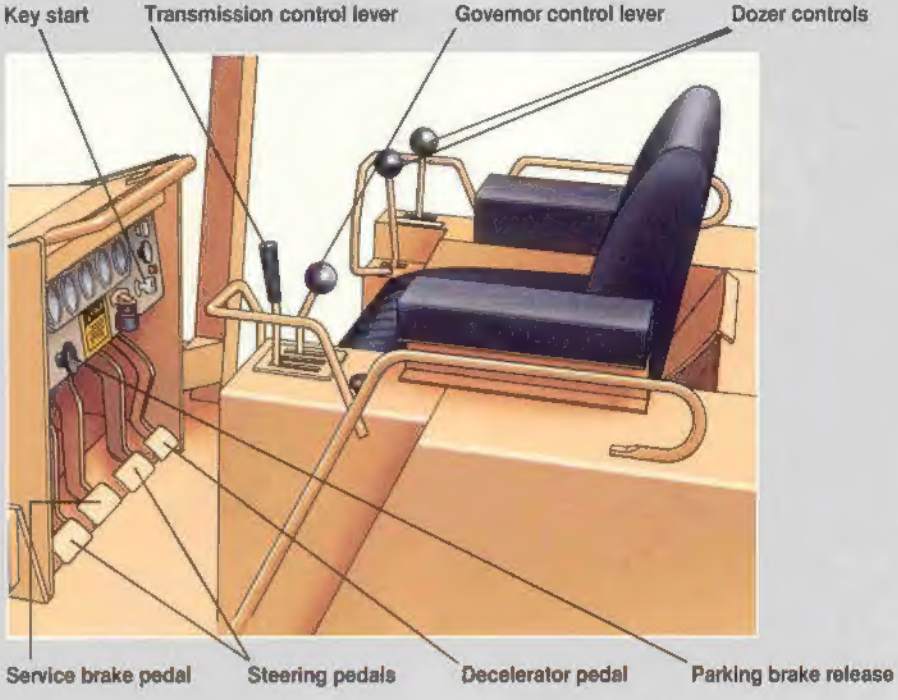
- **Parts availability** — Most Cat parts are immediately available off the shelf. Dealer availability is backed up by Cat's computer-controlled, emergency search system.
- **Service capability** — Whether in the dealer's fully equipped shop, or in the field, you'll get trained servicemen using the latest technology and tooling.
- **Machine management services** — Cat dealers help manage equipment investments with:
  - ☐ Custom Track Service.
  - ☐ Effective preventive maintenance programs.
  - ☐ Diagnostic programs like Scheduled Oil Sampling and Technical Analysis.
  - ☐ Information to make the most cost-effective repair option decisions.
  - ☐ Customer meetings, training for operators and mechanics.



- **Exchange components for quick repairs** — Low-cost components assure maximum, cost-effective uptime.
- **Literature support** — Easy-to-use operation and maintenance guides help you get the full value out of your equipment investment.

Operator's Compartment

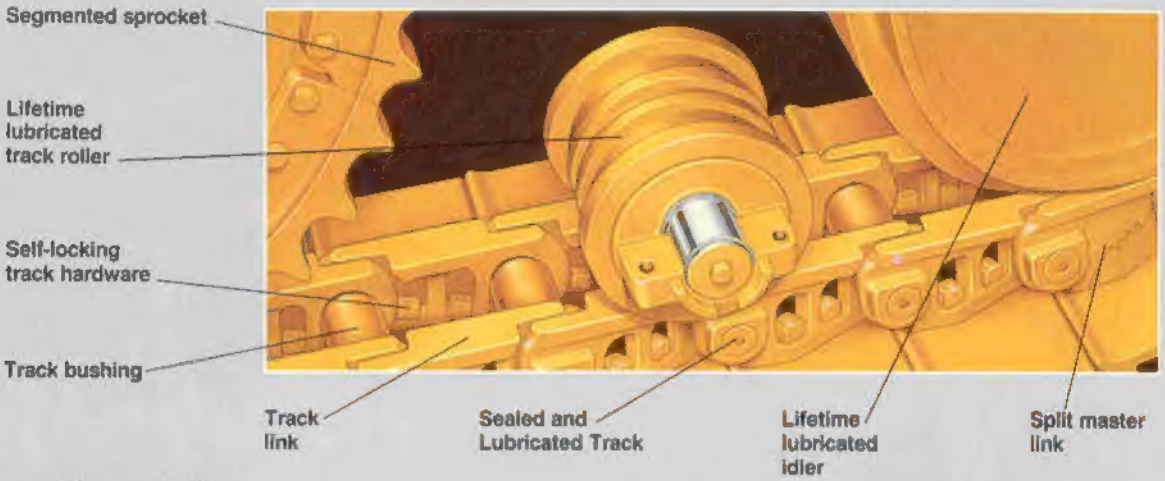
- Walk-through design for easy entry and exit.
- Large arm rests are adjustable for greater operator comfort.
- Controls and levers designed and located for operator comfort and efficiency.
- Decelerator pedal allows precise control of the tractor.
- Pedal steering frees operator's hands for implement and transmission controls. Hand lever steering available.
- Low pedal effort provides greater operator comfort and efficiency.
- Excellent visibility for optimum operator performance.
- Optional sound-suppressed ROPS cab reduces noise and vibration.





Undercarriage

- Box-section track roller frames resist bending and twisting for excellent structural integrity and roller frame alignment.
- Sealed and Lubricated Track reduces pin and bushing wear for long undercarriage life.
- Balanced undercarriage system — components designed to wear as a unit, reducing operating costs.
- Long-lasting components improved to make them even more durable.
  - ☐ Additional wear material on bushing and greater hardened depth provides longer service life.
  - ☐ Material added to links for increased structural strength.
  - ☐ Deep-hardened rollers and idlers.
  - ☐ Shoes have high surface hardness and greater hardened depth for good wear resistance and long life; shoe designed to reduce entry of material into the sprocket root/bushing contact area.



Low Ground Pressure

- LGP undercarriage is especially designed to work in sloppy conditions, also improves finish dozing and slope capabilities.
- Wide track shoes, long track frame and wider gauge combine to increase track contact area, reduce ground pressure for high flotation and excellent stability.
- End track guiding guards keep tracks aligned and prevent slipping or throwing track in mud and side-slope work. Full-length guards are available for severe side-slope applications.
- Caterpillar LGP track shoes.
  - ☐ Single-grouser shoes, made from heat-treated cast steel, 635 mm/25", are standard.
  - ☐ Self-cleaning shoes available for improved performance in sticky material and vegetation. Packing resistance gives better traction in cohesive material.



The Competitive Edge

Performance

- Balanced weight with increased track on ground.
- Precise, well-modulated dozer controls.
- Versatile Power Angle and Tilt blade for increased productivity.
- Planetary power shift transmission provides fast speed changes, effortless shifting, smooth acceleration and reliability.
- High displacement-to-power ratio gives powerful performance and long life.

Reliability/Durability

- Box-section track roller frames resist bending and twisting.
- Sealed and Lubricated Track reduces wear between pin and bushing.
- Material added to links to increase structural strength.
- Deep-hardened rollers and idlers.
- Shoes with high surface hardness for good wear resistance.
- Shoes designed to reduce entry of material into the sprocket root/bushing contact area.
- Transfer of power from engine to transmission through torque converter cushions transmission from shock loads.

Maintenance/Repair

- No daily maintenance.
- Hinged doors allow easy access for routine maintenance checks and reduce time to remove and install major components.
- Spin-on fluid filters for servicing convenience with vertical placement for clean changes.
- Reduced number of lubrication points — easily accessible.
- Segmented sprocket for fast, easy replacement of sprocket teeth without breaking track.
- Fast, easy adjustment of brakes with adjuster conveniently located under kickplate below operator seat.

Operating Ease

- Walk-through design for easy entry and exit.
- Excellent visibility.
- Controls and levers designed and located for operator comfort and efficiency.
- Low pedal effort.
- Decelerator provides more precise control.
- Pedal steering frees operator's hands for transmission and blade control.
- Optional hand lever steering with a foot brake.

Total Customer Support

- **Parts Availability** — most Cat parts on dealer's shelf when you need them — computer-controlled, emergency search system back-up.
- **Service capability** — dealer's shop or fast field service — trained servicemen — latest tooling and technology.
- **Machine management services** — effective preventive maintenance programs, diagnostic programs (Scheduled Oil Sampling, Technical Analysis), cost-effective repair options, customer meetings, operator and mechanic training.
- **Exchange components for quick repairs** — choose remanufactured products or rebuilt components for maximum availability and lower costs.
- **Literature Support** — easy-to-use operation, maintenance guides help you get the maximum value out of your equipment investment.
- **Flexible Financing** — your dealer can arrange attractive financing on the entire line of Cat equipment. Terms structured to meet your cash flow requirements. See how affordable and easy it is to own Cat equipment.

Custom Machine Products

- In addition to the standard range of optional equipment, special attachments and machine configurations to suit particular customer applications can be made. Contact your Caterpillar dealer for details on matching the Caterpillar product to your special applications.

CATERPILLAR

Helping you get more done

AEHQ0403 (2-88)
(Replaces AEHQ3575)

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