



# D4H

## TRACK-TYPE TRACTOR

- Power Angling and Tilt Blade . . . with full hydraulic control of lift, dig, angle and tilt . . . gives exceptional versatility.
- Load-sensing hydraulic system adjusts pump displacement and pressure to load encountered.
- Excellent fuel efficiency and productivity.
- Easy maintenance and repair — fast daily checks, modular components, reduced downtime.
- Operating ease — efficient, comfortable work environment.
- Total Customer Support System — unmatched in the industry.

### Cat® 3204 Turbocharged diesel Engine

Gross Power .....74 kW/99 HP

Flywheel Power .....71 kW/95 HP

#### Operating weight

##### Standard machine

Power shift.....10 105 kg/22,277 lb

Direct drive .....10 231 kg/22,555 lb

##### LGP arrangement

Power shift.....11 350 kg/25,022 lb

Direct drive .....11 476 kg/25,300 lb

#### Blade capacity

Standard machine.....1.89 m<sup>3</sup>/2.47 yd<sup>3</sup> to

2.31 m<sup>3</sup>/3.01 yd<sup>3</sup>

LGP arrangement.....2.03 m<sup>3</sup>/2.66 yd<sup>3</sup> to

2.17 m<sup>3</sup>/2.84 yd<sup>3</sup>

Machine shown may include optional equipment.



# FEATURES

## Elevated Sprocket Undercarriage

Caterpillar's elevated sprocket tractors set the standard in traction, durability and ride.

- Machine balanced for high dozer production.
- Final drives and associated power train components raised above the work area — isolating them from ground-induced impact loads, as well as implement and roller frame alignment loads — extending power train component life.
- Sprocket position keeps sprocket teeth, bushing and final drives away from the abrasive mud, ice and dust — resulting in longer track, sprocket and final drive life.
- A forward center of gravity with long track footprint on the ground, give aggressive dozer performance and excellent side slope stability.

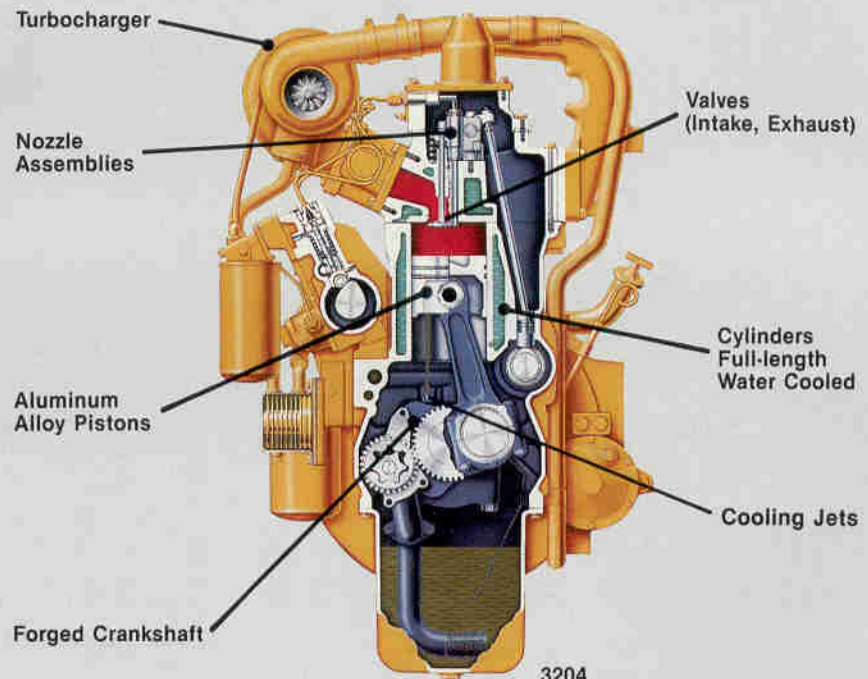


- Elevated sprocket design provides superior performance, durability/reliability and low operating costs.

## Caterpillar® Diesel Engine

Provides power, reliability and performance you can depend on.

- High torque rise provides lugging force to power train during heavy loads — no need to downshift.
- High displacement-to-power ratio, low RPM for long life and reliability.
- Direct-injection fuel system, adjustment-free pumps and valves for efficient, precise fuel metering.
- Four-stroke-cycle design provides long, effective power strokes, more complete fuel combustion.
- Resilient engine mounting for quieter operation, less vibration.
- Engine oil cooler maintains optimum engine oil temperature to cool engine components and prolong engine and lubricant life.
- Full-length, water-cooled cylinders ensure maximum heat transfer for longer engine life.



## Bulldozer Specifications (Standard)

| Blade | Blade Capacity<br>(SAE J1265) |                 | Blade Width<br>(over end bits) |         | Blade Height |      | Digging Depth |      | Ground Clearance |      | Maximum Tilt |      | Weight<br>(without hyd. controls) |      | Total Operating Weight*<br>(with blade) |        |
|-------|-------------------------------|-----------------|--------------------------------|---------|--------------|------|---------------|------|------------------|------|--------------|------|-----------------------------------|------|---|--------|
|       | m <sup>3</sup>                | yd <sup>3</sup> | mm                             | ft. in. | mm           | in.  | mm            | in.  | mm               | in.  | mm           | in.  | kg                                | lb   | kg                                      | lb     |
| 4P    | 2.31                          | 3.01            | 2636                           | 8'8"    | 1085         | 42.7 | 397           | 15.6 | 861              | 34   | 397          | 15.6 | 1424                              | 3139 | 10 105                                  | 22,277 |
| 4S    | 1.89                          | 2.47            | 2584                           | 8'6"    | 965          | 38   | 414           | 16.3 | 870              | 34.3 | 402          | 15.8 | 1536                              | 3387 | 10 212                                  | 22,513 |

## Bulldozer Specifications (LGP)

| Blade | Blade Capacity<br>(SAE J1265) |                 | Blade Width<br>(over end bits) |         | Blade Height |      | Digging Depth |      | Ground Clearance |      | Maximum Tilt |      | Weight<br>(without hyd. controls) |      | Total Operating Weight*<br>(with blade) |        |
|-------|-------------------------------|-----------------|--------------------------------|---------|--------------|------|---------------|------|------------------|------|--------------|------|-----------------------------------|------|---|--------|
|       | m <sup>3</sup>                | yd <sup>3</sup> | mm                             | ft. in. | mm           | in.  | mm            | in.  | mm               | in.  | mm           | in.  | kg                                | lb   | kg                                      | lb     |
| 4P    | 2.03                          | 2.66            | 3256                           | 10'8.2" | 908          | 35.7 | 414           | 16.3 | 906              | 35.7 | 491          | 19.3 | 1618                              | 3567 | 11 350                                  | 25,022 |
| 4S    | 2.17                          | 2.84            | 3256                           | 10'8.2" | 920          | 36.2 | 459           | 18.1 | 899              | 35.4 | 421          | 16.6 | 1594                              | 3515 | 11 324                                  | 24,965 |

\* Operating weight includes lubricants, coolant, full fuel tank, power shift arrangement, ROPS canopy, operator, hydraulic controls, track end guiding guards, rigid drawbar, dozer listed, forward warning horn, precleaner, ether starting aid, decelerator for power shift and 460 mm/18" shoes — LGP 760 mm/30" shoes.



# SPECIFICATIONS



## Standard Equipment

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

|                                    |  |   |
|------------------------------------|--|---|
| Air cleaner, dry-type.             | Lifetime Lubricated rollers and idlers.  | Transmission, power shift or direct drive.  |
| Air cleaner service indicator.     | Lighted instrument panel.  | <b>LGP</b> arrangement (additional)   |
| Alternator, 35-amp.                | Lockable storage compartment.  | Brake system, service, parking and emergency.                                       |
| Back-up alarm (U.S.A.).            | Muffler.   | Guards, crankcase — normal service.   |
| Blower fan.                        | Precleaner.  | Hook, front pull.   |
| Canopy, ROPS (Required in U.S.A.). | Radiator guard.  | Track:  |
| Decelerator (PS).                  | Seat, adjustable.  | Sealed and Lubricated Track with 760 mm/30", 44-section single grouser track shoes. |
| Diagnostic connector.              | Seat belt.   |   |
| Drawbar, rigid.                    | Segmented sprocket.  |   |
| End guiding guards.                | Single key start.  |   |
| Electric hour meter.               | Track:   |   |
| Electronic Monitoring System.      | Adjusters, hydraulic.  |   |
| Electric starting, 24-volt direct. | Sealed and Lubricated Track with 460 mm/18", 39-section (standard undercarriage) single grouser track shoes. |   |
| Ether starting aid.                | Two-piece master link.   |   |
| Horn, front warning.               |  |   |



## Optional Equipment

|  | kg  | lb   |   | kg   | lb   |
|--|-----|------|---|------|------|
| Air conditioning system .....  | 41  | 90   | For use without heavy-duty radiator guard.....                | 11   | 25   |
| Alternator, 50-amp (24-EM only).....   | 5   | 11   | For use with ROPS canopy                                      |      |      |
| Back-up alarm (std. in U.S.A.).....  | 2   | 5    | For use with heavy-duty radiator guard.....                   | 11   | 25   |
| Cab, ROPS, sound suppressed.....   | 322 | 709  | For use without heavy-duty radiator guard.....                | 11   | 25   |
| Canopy, ROPS (required in U.S.A.).....   | 91  | 200  | Logging Arrangement .....                                     | 410  | 904  |
| Decelerator (DD).....  | 4.5 | 10   | Precleaner with prescreener .....                             | 4    | 10   |
| Drawbar, rigid (less off).....   | -70 | -155 | Rear screen for ROPS and winch .....                          | 64   | 142  |
| Swinging (parts only) .....  | 125 | 275  | Ripper.....   | 553  | 1220 |
| Engine enclosure (perforated).....   | 20  | 44   | Sound suppression (COSA).....                                 | 23   | 50   |
| heavy duty.....  | 41  | 91   | Starting aids   |      |      |
| Fan, reversible .....  | 16  | 35   | Heater, engine coolant, choice of 110 or 220 volt .....       | 1    | 3    |
| Fenders, heavy duty .....  | 52  | 11   | Starting system, low-temperature.....                         | 9    | 20   |
| Guards:  |     |      | Suspension seat .....   | 10   | 21   |
| Crankcase extreme service .....  | 48  | 106  | Sweeps, logging for ROPS canopy .....                         | 181  | 400  |
| Fuel tank.....   | 71  | 156  | Tool kit.....   | 7    | 15   |
| Fuel tank (for use with ROPS & Winch) .....                                    | 36  | 79   | Track, pair: Sealed and Lubricated or Sealed (non-lubricated) |      |      |
| Radiator (heavy duty, hinged).....   | 46  | 102  | Standard — 39-section:  |      |      |
| Track guiding, center section only.....  | 34  | 76   | 410 mm/16" .....  | 85   | 187  |
| Track roller, full length .....  | 146 | 321  | 460 mm/18" .....  | 169  | 373  |
| Hook, front pull.....  | 10  | 21   | 460 mm/18" (extreme service).....                             | 63.5 | 140  |
| Hydraulic controls:  |     |      | LGP tractor — 44-section:                                     |      |      |
| Two valve for 4S bulldozer and ripper or rear implement (std. only).....       | 191 | 421  | 760 mm/30" .....  | 275  | 606  |
| Two valve for 4S bulldozer and tilt.....                                       | 186 | 410  | 460 mm/18" .....  | -134 | -295 |
| Three valve for 4S bulldozer, tilt and one rear implement (standard only)..... | 200 | 440  | Vandalism protection  |      |      |
| Three valve for 4P bulldozer .....   | 193 | 425  | For ROPS cab.....   | 5    | 10   |
| Four valve for 4P bulldozer, ripper or one rear implement (std. only) .....    | 213 | 470  | For ROPS canopy.....  | 9    | 20   |
| Lighting system, six lights:   |     |      | Winch .....   | 820  | 1808 |
| For use with ROPS cab  |     |      | Winch fairlead.....   | 180  | 397  |
| For use with heavy-duty radiator guard.....                                    | 11  | 25   |   |      |      |



## Ripper Specifications

|   |                         |
|---|-------------------------|
| Beam width.....                                       | 1951 mm/76.8"           |
| Cross section .....                                   | 165 X 211 mm/6.5 X 8.3" |
| Ground clearance under beam raised.....               | 898 mm/35"              |
| Under tip at full raise.....                          | 475 mm/19"              |
| Number of pockets.....                                | 3                       |
| Maximum penetration .....                             | 375 mm/14.75"           |
| Maximum pryout force.....                             | 12 076 kg/26,000 lb     |
| Maximum penetration force<br>(S-Blade equipped) ..... | 3178 kg/7,000 lb        |
| Weight  |                         |
| With one tooth .....                                  | 613 kg/1,350 lb         |
| Each additional tooth.....                            | 34 kg/74 lb             |



## Winch Specifications

|                           |               |               |
|---------------------------|---------------|---------------|
| Weight .....              | 891 kg        | 1965 lb       |
| Winch length .....        | 1022 mm       | 40.25"        |
| Winch case width .....    | 1003 mm       | 39.5"         |
| Flange diameter.....      | 445 m         | 17.5"         |
| Drum width.....           | 241 mm        | 9.5"          |
| Cable size:               |               |               |
| Recommended .....         | 16 mm         | 0.62"         |
| Optional.....             | 19 mm         | 0.75"         |
| Drum capacity:            |               |               |
| Recommended cable.....    | 107 m         | 351'          |
| Optional cable .....      | 76 m          | 248'          |
| Oil capacity .....        | 47 L          | 12.5 gal      |
| Cable/ferrule sizes ..... | 51 mm X 41 mm | 1.62" X 2.00" |
|                           | (OD X length) |               |



## Weight (approximate)

**Shipping** (includes lubricants, coolant, ROPS canopy, 5% fuel, track end guiding guards, rigid drawbar, forward warning horn, precleaner, ether starting aid, decelerator for powershift, and standard shoes).

|              | Standard          | LGP               |
|--------------|-------------------|-------------------|
| Power shift  | 8276 kg/18,245 lb | 9327 kg/20,562 lb |
| Direct drive | 8402 kg/18,523 lb | 9453 kg/20,840 lb |

**Operating** (includes lubricants, coolant, ROPS canopy, full fuel tank, operator, PAT Bulldozer, track end guiding guards, rigid drawbar, three valve hydraulic control, forward warning horn, precleaner, ether starting aid, decelerator for power shift and standard shoes).

|              | Standard            | LGP                 |
|--------------|---------------------|---------------------|
| Power shift  | 10 105 kg/22,277 lb | 11 350 kg/25,022 lb |
| Direct drive | 10 231 kg/22,555 lb | 11 476 kg/25,300 lb |

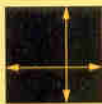


# SPECIFICATIONS



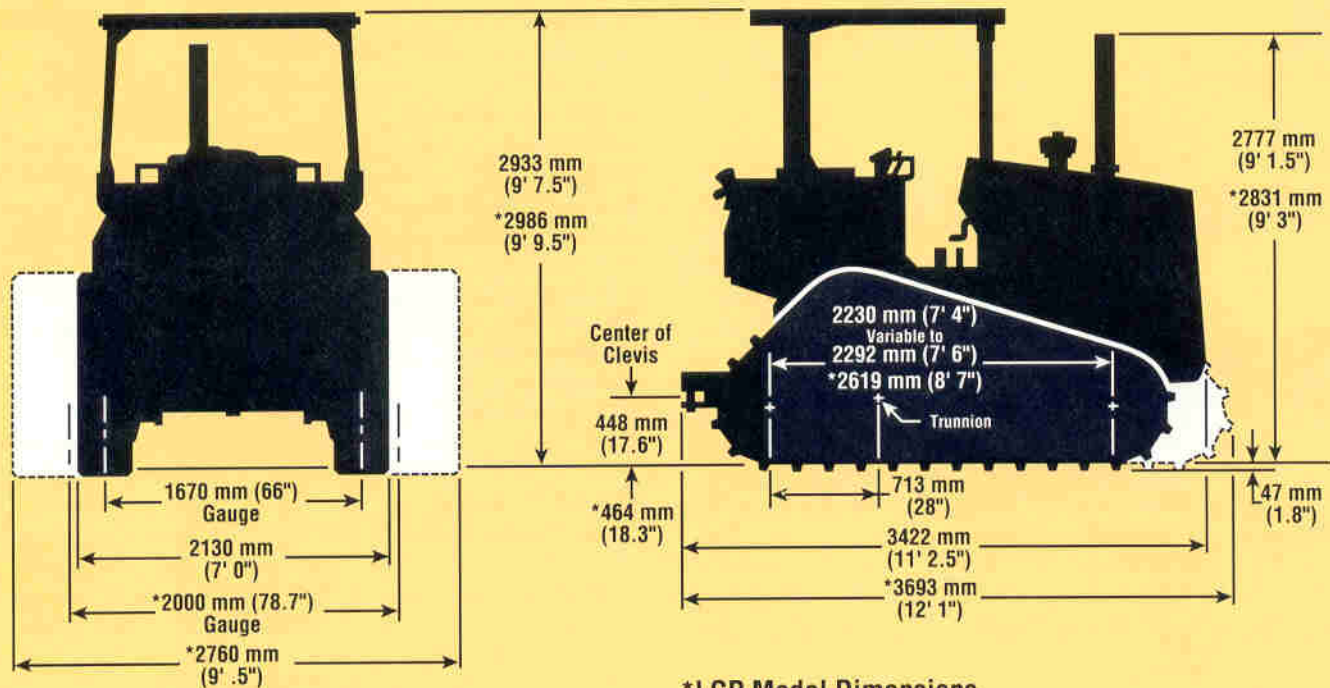
## Service Refill Capacities

|   | Liters | U.S. Gallons |                              | Liters | U.S. Gallons |
|---|--------|--------------|------------------------------|--------|--------------|
| Fuel tank.....  | 167.0  | 44.0         | Final drives (each).....     | 6.0    | 1.5          |
| Cooling system.....   | 27.0   | 7.0          | Implement hydraulic system.. | 67.3   | 17.5         |
| Engine crankcase .....  | 15.0   | 4.0          | Hydraulic tank.....          | 30.0   | 7.8          |
| Transmission, bevel gear and steering clutch compartments (includes torque converter or oil clutch) Standard..... | 110.0  | 28.5         |                              |        |              |
| LGP .....   | 122.0  | 31.7         |                              |        |              |



## Dimensions (approximate)

|  | Standard           | LGP                 |  | Standard            | LGP               |
|--|--------------------|---------------------|--|---------------------|-------------------|
| Ground clearance, from ground face of shoe (per SAE J1234) ..... | 376 mm/<br>14.8"   | 362.5 mm/<br>14.3"  | With the following attachments, add to basic tractor length of ..... | 3422 mm/<br>11'2.5" | 3693 mm/<br>12'1" |
| Actual clearance under case.....                                 | —                  | 430 mm/17"          | Ripper .....   | 803 mm/2'7.5"       | —                 |
| Machine height from tip of grouser with the following equipment: |                    |                     | 54 Winch .....   | 304 mm/12"          | 304 mm/12"        |
| ROPS Canopy .....  | 2980 mm/<br>9'9"   | 3033 mm/<br>9'11.5" | PAT-Blade .....  | 810 mm/2'7.5"       | 1209 mm/4'0"      |
| ROPS Cab.....  | 2986 mm/<br>9'9.5" | 3039 mm/<br>10'     | S-Blade .....  | 80 mm/2'7.5"        | 1081 mm/3'3"      |



\*LGP Model Dimensions



## Steering

Hydraulically actuated, multiple-disc oil-cooled steering brakes are spring-engaged and hydraulically released. Clutches are multiple-disc, oil-cooled, hydraulically applied. The disc assemblies provide high load carrying capability, long life and require no adjustment.

Combined clutch and brake hand controls are located to the operator's left. A single brake pedal, suspended from the dash, brakes both tracks without disengaging the clutches.



## ROPS

ROPS Canopy is required in U.S.A.

ROPS (Rollover Protection Structures) offered by Caterpillar for this machine meets ROPS criteria SAE J395, SAE J1040 APR88 and ISO 3471-1986. They also meet FOPS (Falling Object Protective Structure) criteria SAEJ231 and ISO 3449-1984.



## Cab

Cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 JUL87, meets OSHA and MSHA requirements for operator sound exposure limits in effect at the time of manufacture.



## Pivot Shaft and Equalizer Bar

The D4H employs a pivot shaft and pinned equalizer bar oscillation system. The pivot shaft transmits ground impact loads directly to the main frame rather than through the power train components. The pinned equalizer bar keeps track roller frames in proper alignment. The D4H design has excellent ground clearance and provides a smooth underside to prevent the collection of mud and debris.



## Sealed and Lubricated Track

Sealed and Lubricated Track surrounds the track pin with lubricant to eliminate internal pin and bushing wear. Lubricant is held in place by a sealing arrangement consisting of a polyurethane seal, a rubber load ring and a thrust ring. Additional lubricant is contained in a reservoir drilled into the track pin. Extends undercarriage maintenance intervals and reduces costs. Hydraulic track adjusters and two-piece master link standard.



## Hydraulic Controls

Load-sensing hydraulics. A variable-displacement piston pump senses implement load and automatically adjusts flow rate to the load encountered. Sight gauge for checking fluid level. Gear driven from rear of engine.

### Implement systems:

Flow at maximum  
 pressure .....94.6 L/min / **25.5 gpm** at 2200 RPM  
 Maximum pressure .....18,600 kPa/**2700 psi**



## Track Roller Frame

Tubular design to resist torsional loads. Lifetime Lubricated rollers and idlers are directly mounted to roller frame.

Oscillating roller frames attach to tractor by a pivot shaft and fully pinned equalizer bar. Large pivot bushings operate in an oil reservoir.

Equalizer bar saddle connection is a low-friction, no-maintenance bushing. Recoil system is fully sealed and lubricated.

### Oscillation at front idlers

Standard ..... ± 65 mm/**2.6"**  
 LGP ..... ± 86 mm/**3.4"**

|  | Standard  | LGP   |
|--|---|---|
| Number of rollers (each side).....                                 | 7   | 7   |
| Number of shoes (each side).....                                   | 39  | 44  |
| Width of   |   |   |
| standard shoes .....   | 460 mm/ <b>18"</b>                                  | 760 mm/ <b>30"</b>                                  |
| narrow shoes .....   | 410 mm/ <b>16"</b>                                  | —   |
| extreme service shoes .....  | 460 mm/ <b>18"</b>                                  | —   |
| Length of track  |   |   |
| on ground.....   | 2230 mm/ <b>88"</b>                                 | 2620 mm/ <b>103"</b>                                |
| Gauge.....   | 1670 mm/ <b>66"</b>                                 | 2000 mm/ <b>78.7"</b>                               |
| Ground contact area—   |   |   |
| standard shoes .....   | 2.05 m <sup>2</sup> /<br><b>3168 in<sup>2</sup></b> | 3.99 m <sup>2</sup> /<br><b>6180 in<sup>2</sup></b> |
| narrow shoes .....   | 1.82 m <sup>2</sup> /<br><b>2826 in<sup>2</sup></b> | 2.39 m <sup>2</sup> /<br><b>3708 in<sup>2</sup></b> |
| extreme service shoes .....  | 2.05 m <sup>2</sup> /<br><b>3168 in<sup>2</sup></b> | —   |
| self cleaning shoes.....   | —   | 3.99 m <sup>2</sup> /<br><b>6180 in<sup>2</sup></b> |
| Ground Pressure  |   |   |
| with standard shoes...0.50 kg/cm <sup>2</sup> /<br><b>7.03 psi</b> |   | 0.28 kg/cm <sup>2</sup> /<br><b>4.05 psi</b>        |
| narrow shoes.....0.54 kg/cm <sup>2</sup> /<br><b>7.64 psi</b>      |   | 0.47 kg/cm <sup>2</sup> /<br><b>6.75 psi</b>        |
| extreme service shoes .....  | 0.44 kg/cm <sup>2</sup> /<br><b>7.08 psi</b>        | —   |
| self cleaning shoes.....   | —   | 0.28 kg/cm <sup>2</sup> /<br><b>4.05 psi</b>        |

# SPECIFICATIONS



## Caterpillar Engine

Gross power (PS) at 2200 RPM ..... 74 kW/99 HP

Flywheel power (PS) at 2200 RPM ..... 71 kW/95 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/7500 ft. altitude for direct drive, 3000 m/10,000 ft. for power shift model.*

These additional ratings also apply at 2200 RPM

|                  | kW   | HP   |
|------------------|------|------|
| ISO 1585.....    | 70.9 | 95   |
| ISO 3046-1.....  | 69.8 | 93.5 |
| EEC 80/1269..... | 70.9 | 95   |

Caterpillar four-stroke-cycle, 3204 turbocharged diesel engine with four cylinders, 114 mm/4.5" bore, 127 mm/5.0" stroke and 5.2 liters/318 in<sup>3</sup> displacement. Individual, adjustment-free injection pumps and valves. Cam-ground and tapered, aluminum alloy pistons have two rings each. Steel-backed, copper-bonded aluminum bearings; die quenched crankshaft/piston cooling jets; stellite-faced exhaust valves; and replaceable valve seat inserts are standard.

Pressure lubrication with full-flow, filtered oil. Dry-type air cleaner with primary and secondary elements.

Two direct-electric, 24-volt starting systems—standard or low temperature available. Ether aid starting attachment for low temperature starting option. Canister is not included.



## Final Drive

Single-reduction, planetary final drives spread the torque loads over three gears instead of one. Modular design greatly reduces the time required for removal. The elevated design isolates the final drives from ground-impact and blade-induced loads for long service life. Segmented sprocket for replacement ease.



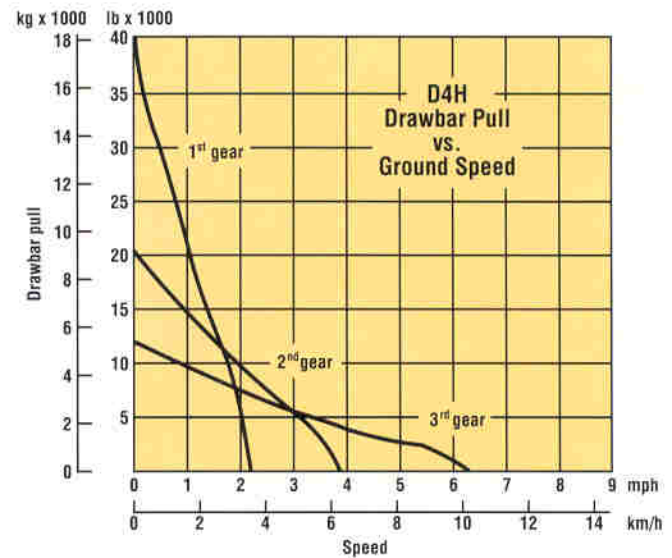
## Transmission

### Power shift:

Planetary-type with high torque-capacity oil clutches. Special valve modulates clutch engagement for fast speed and direction changes. Single-stage torque converter connects directly to flywheel. Live PTO used with 54 Winch.

Speeds with power shift transmission (approximate):

|         |            | 1st | 2nd | 3rd  |
|---------|------------|-----|-----|------|
| Forward | Km/h ..... | 3.5 | 6.2 | 10.2 |
|         | MPH .....  | 2.2 | 3.9 | 6.3  |
| Reverse | Km/h ..... | 4.3 | 7.5 | 12.2 |
|         | MPH .....  | 2.7 | 4.7 | 7.6  |



### Direct drive:

Constant-mesh, sliding-collar countershaft transmission. The D4H offers six speeds forward and reverse, enabling the operator to match tractors speed and drawbar pull to job requirements. Helical gears are used. The curvature of the gears allows two teeth to be in contact at all times, sharing the loads. Helical gears also mesh more smoothly for quieter operation. Flywheel clutch has three plates. Clutch is lubricated and cooled by pressure-circulated oil. Clutch is hydraulically actuated and requires no adjustment. Live PTO used with 54 winch.

### Standard transmission speeds and drawbar pulls:

| Gear | Foward |     | Reverse |     | Drawbar Pull Foward |        |             |        |
|------|--------|-----|---------|-----|---------------------|--------|-------------|--------|
|      |        |     |         |     | At rated RPM        |        | Max. at lug |        |
|      | Km/h   | MPH | Km/h    | MPH | kg                  | lb     | kg          | lb     |
| 1    | 2.5    | 1.6 | 3.3     | 2.1 | 7454                | 16,434 | 9767        | 21,533 |
| 2    | 3.2    | 2.0 | 4.2     | 2.6 | 5715                | 12,599 | 7522        | 16,583 |
| 3    | 4.3    | 2.6 | 5.6     | 3.4 | 4235                | 9,336  | 5613        | 12,375 |
| 4    | 5.5    | 3.4 | 7.2     | 4.5 | 3132                | 6,904  | 4195        | 9,248  |
| 5    | 7.2    | 4.4 | 9.4     | 5.8 | 2277                | 5,020  | 3093        | 6,818  |
| 6    | 9.5    | 5.9 | 12.4    | 7.7 | 1597                | 3,520  | 2215        | 4,883  |



## Low Ground Pressure

The D4H LGP gives you optimum balance and stability with excellent slope capabilities.

- LGP undercarriage is especially designed to work in soft, spongy or wet conditions.
- Wide track shoes, long track frame and wider gauge combine to increase track contact area, reduce ground pressure for high flotation and excellent stability.
- The increased track contact area and excellent stability provide better slope capabilities and improve finish dozing.
- End track guiding guards keep track aligned. Full-length guards are available for severe side-slope applications.
- Caterpillar LGP track shoes:
  - Single-grouser shoes, made from heat-treated, cast steel, 760 mm/30", are standard.
  - Self-cleaning shoes available for improved performance in cohesive material. Shoes reduce material build-up for better traction.



## Total Customer Support

Unmatched in the industry!

- Parts availability — Most Cat® parts are immediately available off the shelf. Dealer parts availability is backed 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 tools.
- 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 guide helps you get the full value out of your equipment investment.

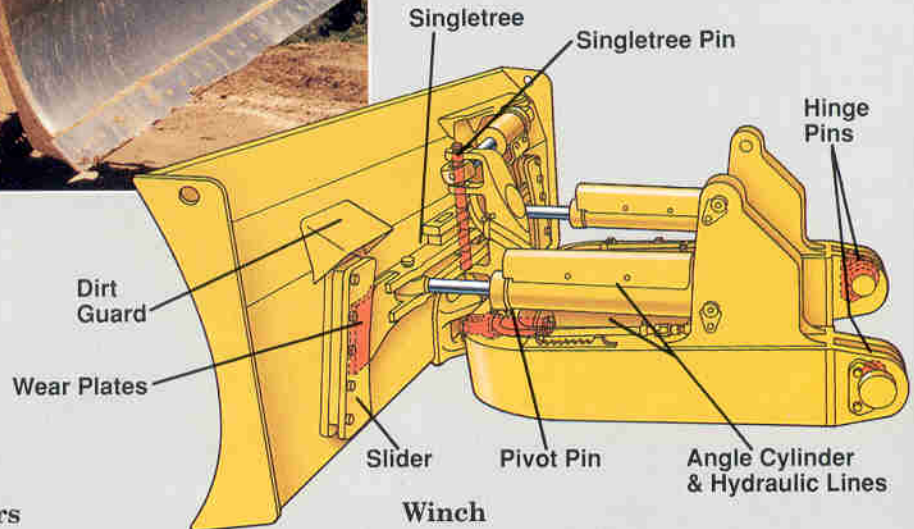
# FEATURES

## Work Tools

Caterpillar work tools include tailored dozers, rippers and winch.

### Blades

- Choices of Power Angling and Tilt (PAT) or Straight (S) blades for optimum job match up.
- PAT blade:
  - Full hydraulic control of lift, dig, angle and tilt functions.
  - C-frame is solidly pinned to the main frame for a good blade control and elimination of blade motion due to oscillation.
  - Increased blade height protects radiator grill and the PAT dozer components.
  - Lubrication points will extend service life of those areas most susceptible to abrasion of dozer frame, C-frame and main frame.
  - Large singletree tower pin and lubrication of contact areas reduce impact stress giving longer pin and service life.
  - Replaceable wear plates on singletree guide area increases service life.
  - Bypass valve and additional hardware help reduce stress on singletree pin.
  - Line guards help protect angle cylinder lines from sharp objects and abrasive materials.
- S-Blade for heavy corner loading applications.
- A-Blade available through Custom Machine Products.



### Rippers

- Rugged design for high production ripping.
- Socket beam design means easy servicing.
- Multi-shank ripper lets you choose one, two or three shanks to match the job conditions.

### Winch

- Modulated input clutch on the engine PTO shaft reduces drains on engine horsepower for fuel efficiency.
- Full freespool capacity allows operator to pull line easily from drum for fast, efficient hook-up.
- Single-lever actuation of both clutch and brake functions — automatic synchronization of input and directional clutch engagement for smooth control.

## Operator's Station

Comfort and convenience designed into the control station for an efficient and productive operator.

- Higher operator's station provides excellent visibility to front and rear of machine.
- Easily accessible, low-effort controls provide sure, precise steering and dozer control for less operator fatigue.
- Fully adjustable, five-way seat for operator comfort.
- Instrument panel includes standard gauge group and Electronic Monitoring System (EMS) for monitoring critical machine functions.
- Isolation-mounted cab (optional) with air pressurizer and heater reduces noise and vibration for shift-long comfort.



Transmission Lever

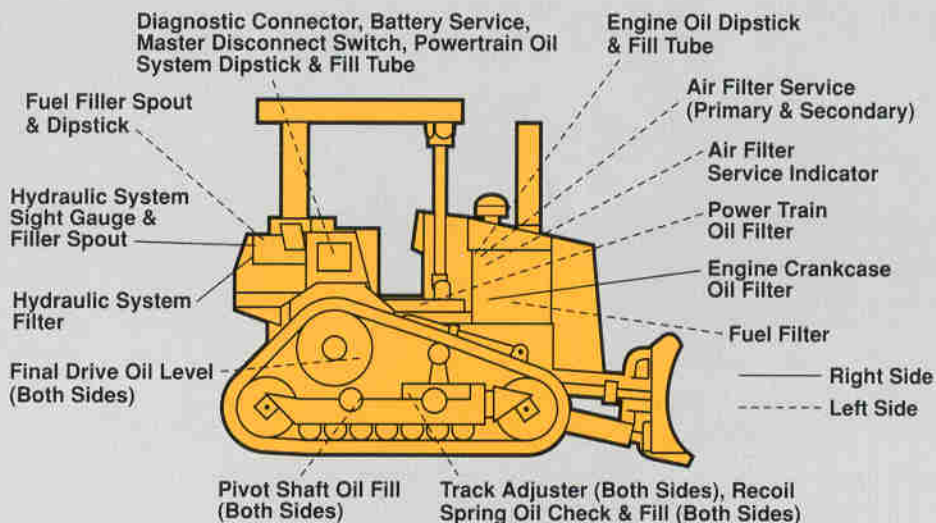
Steering & Braking Controls

Single-Lever Implement Control

## Serviceability

Cat's modular design concept moves the elevated sprocket tractors a generation ahead in simplified service and repair.

- Modular design of power train components permits fast removal and installation.
- Pre-testing modular components before installation or after repair assures high quality.
- Grouped service points and excellent access to service areas make routine checks fast and convenient.
- An Electronic Monitoring System analyzes critical temperatures and pressure — gives visual and audible warning for fast troubleshooting.
- Diagnostic connector enables fast troubleshooting of starting and charging problems.
- Modular cooling system, with individual core assemblies, provides improved serviceability, reduced replacement costs and improved durability.
- Modular core design is available with two options — Folded Core modules and Multi-Row modules.
- Caterpillar Remanufactured Parts: dozer hydraulic cylinders and rods, starters, alternators, cylinder heads, short blocks, engines, oil pumps and final drive hubs — available for fast, economical repairs.



## The Competitive Edge

### Performance

- A forward center of gravity with more track on the ground provides optimum dozing.
- Excellent side slope capacity — wide track gauge gives the D4H excellent side slope stability.
- Excellent power-to-weight ratio — faster loading, bigger loads, shorter cycle time.
- Turbocharged 3204 engine — direct fuel injection for more working power from each unit of fuel.
- Versatile Power Angle and Tilt blade for increased productivity.

### Reliability/Durability

- Tubular track roller frames resist bending and twisting.
- Oil-cooled brakes for increased capacity, service life.
- Elevated sprocket design — final drives and associated power train components raised above work environment . . . isolates from implement and ground-induced shock loads . . . extends drive train life.
- Large engine displacement — peak power with little strain.
- Durable main frame absorbs all implement and roller frame loads through pivot shaft.

### Maintenance/Repair

- Modular components — remove as single units for simpler, quicker repairs, less downtime.
- Modules can be pretested, field-installed — less shoptime, downtime.
- Electronic Monitoring System — guards against costly failures when gauges aren't checked often enough.
- Modular core radiator — easy servicing and repair of the individual modules.
- Exclusive plug-in diagnostic tool connector — tool reads electrical system check points — electrical problems diagnosed quickly.

### Operating Ease

- Conveniently placed, low-effort controls and easy-to-read, non-glare instrument panel — less strain and fatigue for operator.
- Sound-suppressed ROPS/FOPS cab available — heater (standard with cab) or optional heater/air conditioner controls environment — pressurizations keeps out dust.
- Fully adjustable suspension seat for comfort and visibility of blade and ripper or winch operations.
- Smooth, precise one-handed forward, reverse and turning control.

### Total Customer Support System

- 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 tools 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 and maintenance guide helps you get the maximum value out of your equipment.
- 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 D4H to your special applications.

**CATERPILLAR®**