

# D8R Series II Track-Type Tractor



## Engine

The rugged, easy-to-service 3406E engine features the electronically controlled, direct injection fuel system for lower combustion sound and reduced emissions. The 3406E meets current EPA, EU, and JMOE emissions regulations.

## Torque Divider

The single-stage torque converter with output torque divider provides greater driveline efficiency and higher torque multiplication.

## Operator Station

The D8R II operator station is designed for comfort and ease of operation.

## Undercarriage

Elevated sprockets move the final drives above the work area, isolating them from ground impacts. The suspended undercarriage puts more track on the ground for higher traction and less slippage. It also absorbs shocks for a smoother ride and longer machine life.

## Structure

Mainframe is heavy, strong and durable. Full box sections, steel castings and continuous rolled rails provide durable support to the undercarriage, elevated final drives and other integral frame components.

## Transmission

Caterpillar® designed and manufactured differential steering provides smooth turning control, with uninterrupted power to both tracks. The differential steer allows easier turns while maintaining desired ground speed for fast cycle times and high production.

## Advanced Modular Cooling System (AMOCS)

AMOCS utilizes an exclusive two pass cooling system and increased cooling surface area to provide significantly more cooling capacity than conventional systems.



## Work Tools/Attachments

A variety of bulldozer blades, rippers and other options allows you to customize the D8R II to match your specific application. The heavy box-section blade design also helps resist twisting and cracking.

## Serviceability

You'll receive the most serviceable machines from the most committed dealers.

## Complete Customer Support

Less time spent on maintenance gives you more time on the job.

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## Specifications

Engine		
Engine Model	Cat® 3406E TA	
Gross Power	252 kW	338 hp
Flywheel Power	231 kW	310 hp
Net Power - Caterpillar	231 kW	310 hp
Net Power - ISO 9249	231 kW	310 hp
Net Power - SAE J1349	229 kW	307 hp
Net Power - EU 80/1269	231 kW	310 hp
Net Power - DIN 70020	321 ps	
Bore	137 mm	5.4 in
Stroke	165 mm	6.5 in
Displacement	14.6 L	893 in <sup>3</sup>

- Ratings at 2000 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 2286 m (7500 ft) altitude, beyond 2286 m (7500 ft) automatic derating occurs.

### Service Refill Capacities

Fuel Tank	625 L	165 gal
Cooling System	94 L	24.8 gal
Engine Crankcase*	37 L	9.8 gal
Power Train	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 System Tank Only	72 L	19 gal
Variable Fan Hub	3.1 L	.82 gal
Hydraulic Tank	72 L	19.02 gal

### Weights

Operating Weight	37 875 kg	83,500 lb
Shipping Weight	29 575 kg	65,200 lb

- includes differential steer arrangement, lubricant, coolant, full fuel tank, hydraulic controls and fluids, back up alarm, seat belts, lights, front towing device, 560mm (22") moderate service shoes, optional equipment (8SU bulldozer, single shank ripper, ROPS/FOPS cab) and operator.
- includes differential steer arrangement, lubricants, coolant, 20% fuel and ROPS canopy.

Dimensions		
Width Over Trunnions	3050 mm	10.01 ft
Overall Height	3509 mm	11.51 ft
Height (ROPS/Canopy)	3509 mm	11.51 ft
Length Basic Tractor with Drawbar	4554 mm	14.94 ft
Length with SU-blade	6398 mm	20.99 ft
Length with U-blade	6795 mm	22.29 ft
Length with A-blade	6581 mm	21.59 ft

### Undercarriage

Shoe Type	Moderate Service Shoe	
Width of Shoe	560 mm	22 in
Shoes/Side	44	
Grouser Height	78 mm	3 in
Pitch	216 mm	8.5 in
Ground Clearance	528 mm	20.79 in
Track Gauge	2082 mm	81.97 in
Length of Track on Ground	3206 mm	10.5 ft
Ground Contact Area	3.58 m <sup>2</sup>	5554 in <sup>2</sup>
Track Rollers/Side	8	
Number of Carrier Rollers	1	
Standard - Ground Pressure	103.44 kPa	15 psi

### Hydraulic Controls

Pump Output (Steering)	285 L/min	75 gal/min
Pump Output (Implement)	228 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	24 100 kPa	3500 psi
Tilt Cylinder Relief Valve Setting	24 100 kPa	3500 psi
Ripper (Lift) Relief Valve Setting	24 100 kPa	3500 psi
Ripper (Pitch) Relief Valve Setting	24 100 kPa	3500 psi
Steering	39 200 kPa	5700 psi
Tank Capacity	72 L	19 gal

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Transmission		
1 Forward	3.4 kph	2.1 mph
2 Forward	6 kph	3.7 mph
3 Forward	10.6 kph	6.6 mph
1 Reverse	4.5 kph	2.8 mph
2 Reverse	7.9 kph	4.9 mph
3 Reverse	13.8 kph	8.6 mph
1 Forward - Drawbar Pull (1000)	629.9 N	141.6 lbf
2 Forward - Drawbar Pull (1000)	370.1 N	83.2 lbf
3 Forward - Drawbar Pull (1000)	180.2 N	40.5 lbf

Blades		
Type	Semi-U	
Capacity (SAE J1265)	8.7 m <sup>3</sup>	11.38 yd <sup>3</sup>
Width (over end bits)	3937 mm	12.92 ft
Height	1690 mm	5.54 ft
Digging Depth	582 mm	22.91 in
Ground Clearance	1231 mm	48.46 in
Maximum Tilt	951 mm	37.44 in
Weight* (without hydraulic controls)	4570 kg	10075.11 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	37 875 kg	83499.98 lb
Type	Universal	
Capacity (SAE J1265)	11.7 m <sup>3</sup>	15.3 yd <sup>3</sup>
Width (over end bits)	4262 mm	13.98 ft
Height	1740 mm	5.71 ft
Digging Depth	582 mm	22.91 in
Ground Clearance	1231 mm	48.46 in
Maximum Tilt	1028 mm	40.47 in
Weight* (without hydraulic controls)	5135 kg	11320.72 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	39 500 kg	87082.49 lb

Rippers		
Type	Single Shank	
Number of Pockets	3	
Maximum Clearance Raised (under tip, 670 mm pinned in bottom hole)	26.38 in	
Maximum Penetration (standard tip)	1158 mm	45.59 in
Weight (without hydraulic controls)	4140 kg	9127.13 lb

Winches		
Weight*	1790 kg	3950 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	568 mm	22.4 in
Winch Case Width	1171 mm	46.1 in
Drum Width	337 mm	13.25 in
Flange Diameter	610 mm	24 in
Recommended Cable size	25 mm	.98 in
Optional Cable size	29 mm	1.14 in
Drum Capacity- 24 mm (1 in)	127 m	418 ft
Drum Capacity- 29 mm (1.13 in)	84 m	276 ft
Drum Capacity- 32 mm (1.25 in)	58 m	193 ft
Drum Capacity - Recommended Cable	127 m	416.67 ft
Drum Capacity - Optional Cable	84 m	275.59 ft

\* from tip of grouser

Standards	
ROPS/FOPS	ROPS (Rollover Protection Structure) offered by Caterpillar for the machine meets ROPS criteria SAE J394, SAE 1040-MAY94
Cab	ANSI/SAE J116 OCT98 is 82 dB(A)
Brakes	Meet the standard SAE J/150 10265 MARCH99

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Materials and specifications subject to change without notice.

Featured machines in photo may include additional equipment.

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