707

Wide Body Truck

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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707 Wide Body Truck Specifications

Engine

Engine Model	C13B	C13
Engine Power – ISO 14396	400 kW 2,100 rpm	358 kW 2,000 rpm
Engine Power – ISO 14396 (DIN)	543 hp (metric)	486 hp (metric)
No. Cylinders	6	6
Bore and Stroke	130 mm x 157 mm	130 mm x 157 mm
Displacement	12.5 L	12.5 L
High Idle Speed	2,200 rpm	2,200 rpm
Low Idle Speed	750 rpm	750 rpm
Net Torque	2408 N·m	2306 N·m
Net Torque Rise	35%	35%
Air Cleaner – No. Used	2	2
Type	Dry	Dry
Emissions	C13B meets China Nonroad Stage IV emission standards	C13 meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3

Brakes

Rear	
Type	Drum
Actuation	Air
Parking	
Type	Drum
Actuation	Spring
Slope Holding Ability	15 %
Secondary	
Type	Drum
Actuation	Spring
Front	
Type	Drum
Actuation	Air
Brake System	Air actuated drum brakes
Brake Standard	ISO 3450:2011

Weight Distribution – Approximate (Dual Slope)

Machine Weight	T3 and CNR4 (W/ 40 m^3 General plate body)	
Total Empty Machine Weight with Body	35 500 to 36 500 kg pending options	
Front Axle	Loaded 24%	Empty 35%
Rear Axle	Loaded 76%	Empty 65%

Service Refill Capacities

Fuel Tank	540 L	143 gal
Cooling System	53 L	14 gal
Differentials and Final Drives	111 L	29 gal

Body-Tailgate

Metric tonnes	66	66
Cubic Meters - Struck (SAE)	33	35
Heaped 2:1 (SAE)	40	42
Plate Thickness	Heavy/STD Duty	Heavy/STD Duty
Floor	16 mm	16 mm
Side Walls	10 mm/12 mm	10 mm/12 mm
Front Walls	10 mm	10 mm
Canopy Backwall	12 mm	12 mm
Canopy Top	6 mm	6 mm

Suspension

Front	Hydro-pneumatic
Rear	Leaf spring

Steering System

Turning Diameter on Front Wheel Track	23.7 m
Vehicle Clearance Turn Circle	24.1 m
2nd Steering (optional)	Electric

Body Hoist

Raise Time	20 seconds
Lower Time	20 seconds

Sound

ISO 6395:2008 (Exterior Sound Power Level)	113 dB(A)
ISO 6396: 2008 (Operator Sound Pressure Level) (inside cab)	80 dB(A)

Cab

Rollover Protective Structure (ROPS) Standards (optional)	ROPS meets ISO 3471:2008 for Operator and ISO 13459:2012 for Trainer.
Falling Objects Protective Structure (FOPS) Standards	FOPS meets ISO 3449:2005 Level II for Operator and ISO 13459:2012 Level II for Trainer.

Safety Compliance Criteria

System	Compliance Standards
ROPS*	ISO 3471 : 2008
FOPS	ISO 3449 : 2005 Level II
Brakes	ISO 3450 : 2011
Seat Belts	ISO 6683 : 2005
Warning Alarms	ISO 9533 : 2010
Steering**	ISO 5010 : 2019
Visibility***	ISO 5006 : 2017
Lighting	ISO 12509:2023
EMC	ISO 13766 : 2018

* If equipped with optional ROPS.
** If equipped with optional secondary steering.
*** If equipped with optional visibility package.

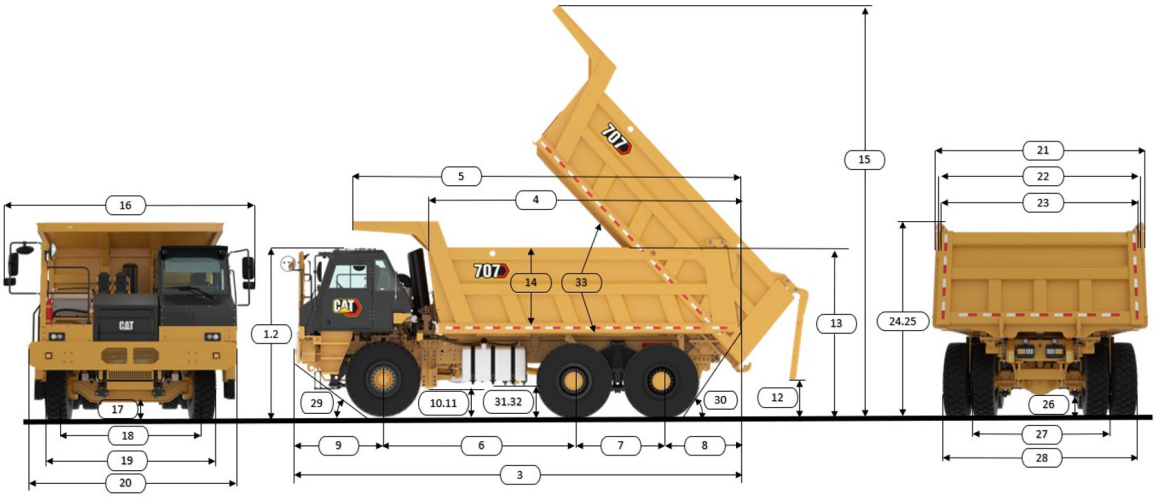
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). This system contains 2.0 kg (4.4 lbs) of refrigerant, which has a CO_2 equivalent of 2.86 metric tonnes (3.152 tons).

707 Wide Body Truck Specifications

Dimensions

All dimensions are approximate.

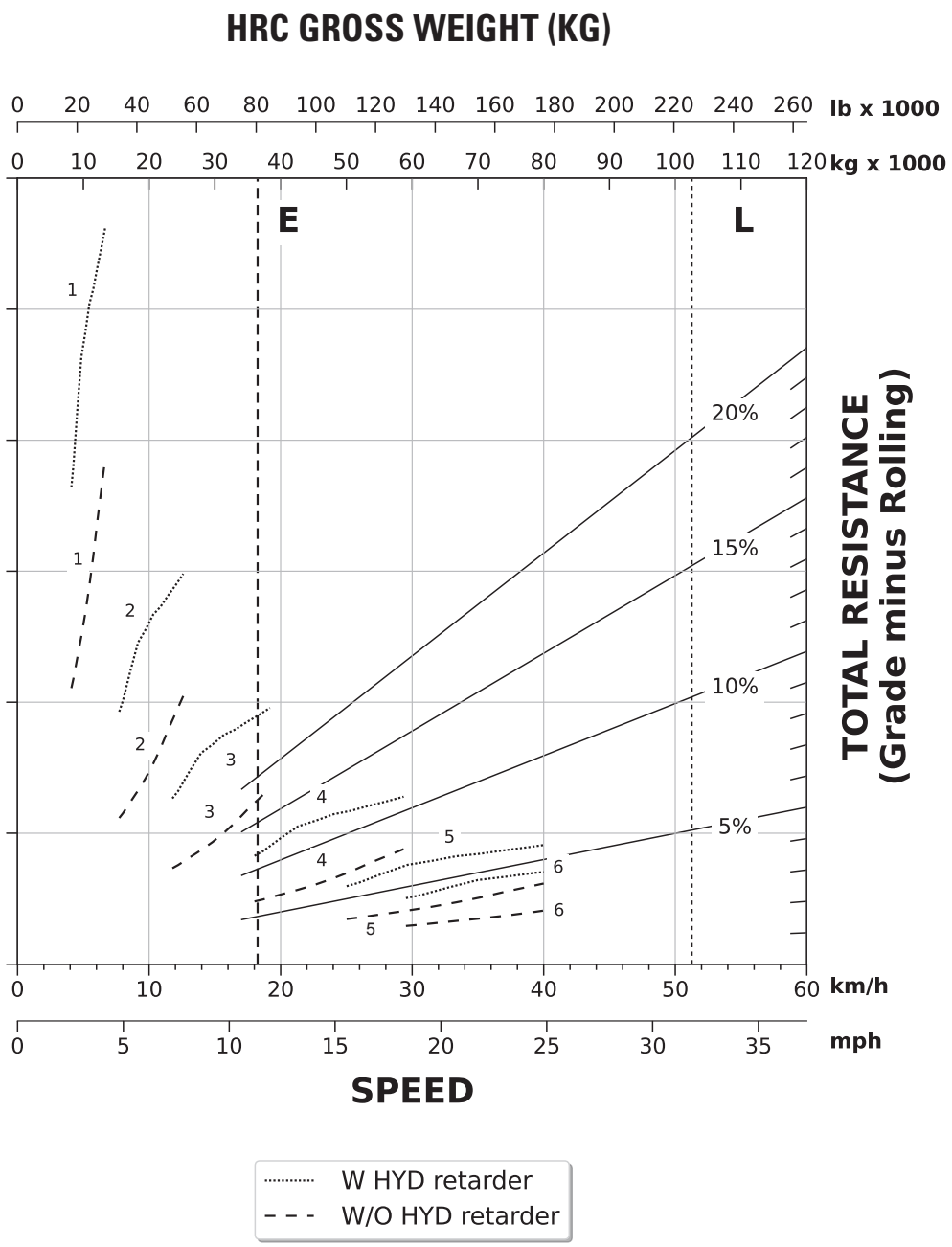


	Dual Slope Body (42 m³)	
	mm	ft
1 Height, Top of Cab, Empty	3340 mm	10.9 ft
2 Height, Top of Cab, Loaded	3255 mm	10.67 ft
3 Length, Overall	9075 mm	29.77 ft
4 Length, Inside Body	5900 mm	19.35 ft
5 Length, Overall Body	7960 mm	26.11 ft
6 Wheelbase 1st	3830 mm	12.56 ft
7 Wheelbase 2nd	1720 mm	5.64 ft
8 Rear Axle To Tail	1775 mm	5.82 ft
9 Front Axle To Head	1760 mm	5.77 ft
10 Frame Clearance, Empty	622 mm	2.04 ft
11 Frame Clearance, Loaded	490 mm	1.60 ft
12 Dump Clearance	670 mm	2.19 ft
13 Height, Loading – Empty	3560 mm	11.67 ft
14 Depth, Inside Body – Maximum	1635 mm	5.36 ft
15 Height Overall, Body Raised	8240 mm	27.03 ft
16 Width, Operating	4410 mm	14.46 ft
17 Engine Guard Clearance – Empty	725 mm	2.37 ft
18 Width, Front Tire Centerline	2830 mm	9.28 ft
19 Width, Outside Front Tires	3225 mm	10.58 ft
20 Width, Working Light Housing	3975 mm	13.04 ft
21 Width, Overall Body Canopy	3650 mm	11.97 ft
22 Width, Outside Body Tail	3680 mm	12.07 ft
23 Width, Inside Body	3400 mm	11.15 ft
24 Height, Front Canopy, Empty	3930 mm	12.89 ft
25 Height, Front Canopy, Loaded	3820 mm	12.53 ft
26 Rear Axle Rod Clearance	400 mm	1.31 ft
27 Width, Rear Dual Tire Centerline	2670 mm	8.75 ft
28 Width, Overall Tire	3670 mm	12.04 ft
29 Width, Approach Angle	28°	
30 Width, Departure Angle	51°	
31 Tank Clearance, Empty	690 mm	2.26 ft
32 Tank Clearance, Loaded	595 mm	1.95 ft
33 Tilting Angle, Body Lift	47°+/-1°	

707 Retarding Performance

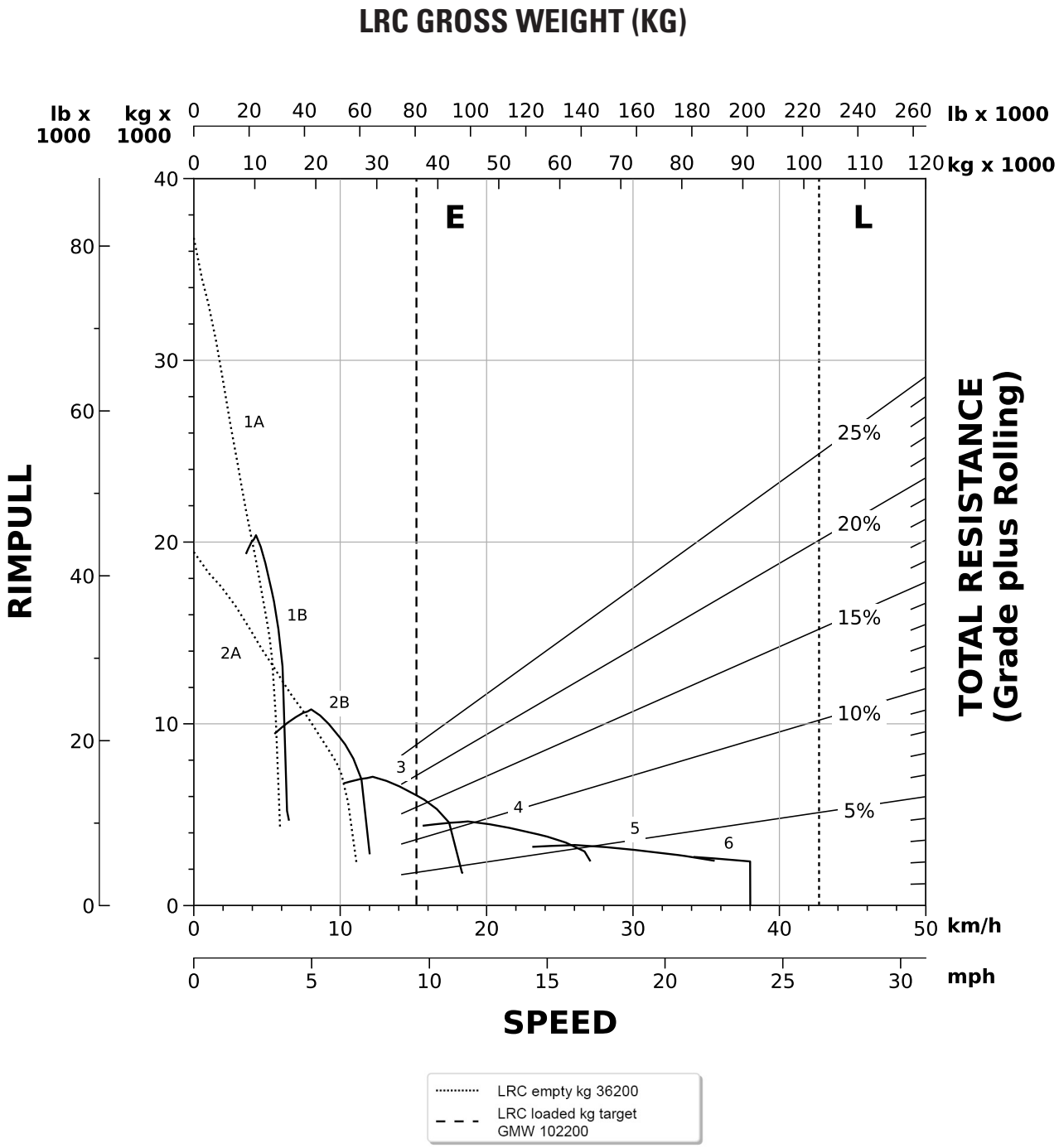
To determine retarding performance: Read from gross weight down to the percent effective grade. Effective grade equals actual % grade minus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-effective grade point, read horizontally to the curve with the highest obtainable gear, then down to maximum descent speed brakes can properly handle without exceeding cooling capacity. The following charts are based on these conditions: 32°C (90°F) ambient temperature, at sea level, with 16.00R25 tires.

NOTE: Select the proper gear to maintain engine rpm at the highest possible level, without overspeeding the engine. If cooling oil overheats, reduce ground speed to allow transmission to shift to the next lower speed range.



707 Gradeability/Speed/Rimpull

To determine gradeability performance: Read from gross weight down to the percent of total resistance. Total resistance equals actual percent grade plus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-resistance point, read horizontally to the curve with the highest obtainable gear, then down to maximum speed. Usable rimpull will depend upon traction available and weight on drive wheels.



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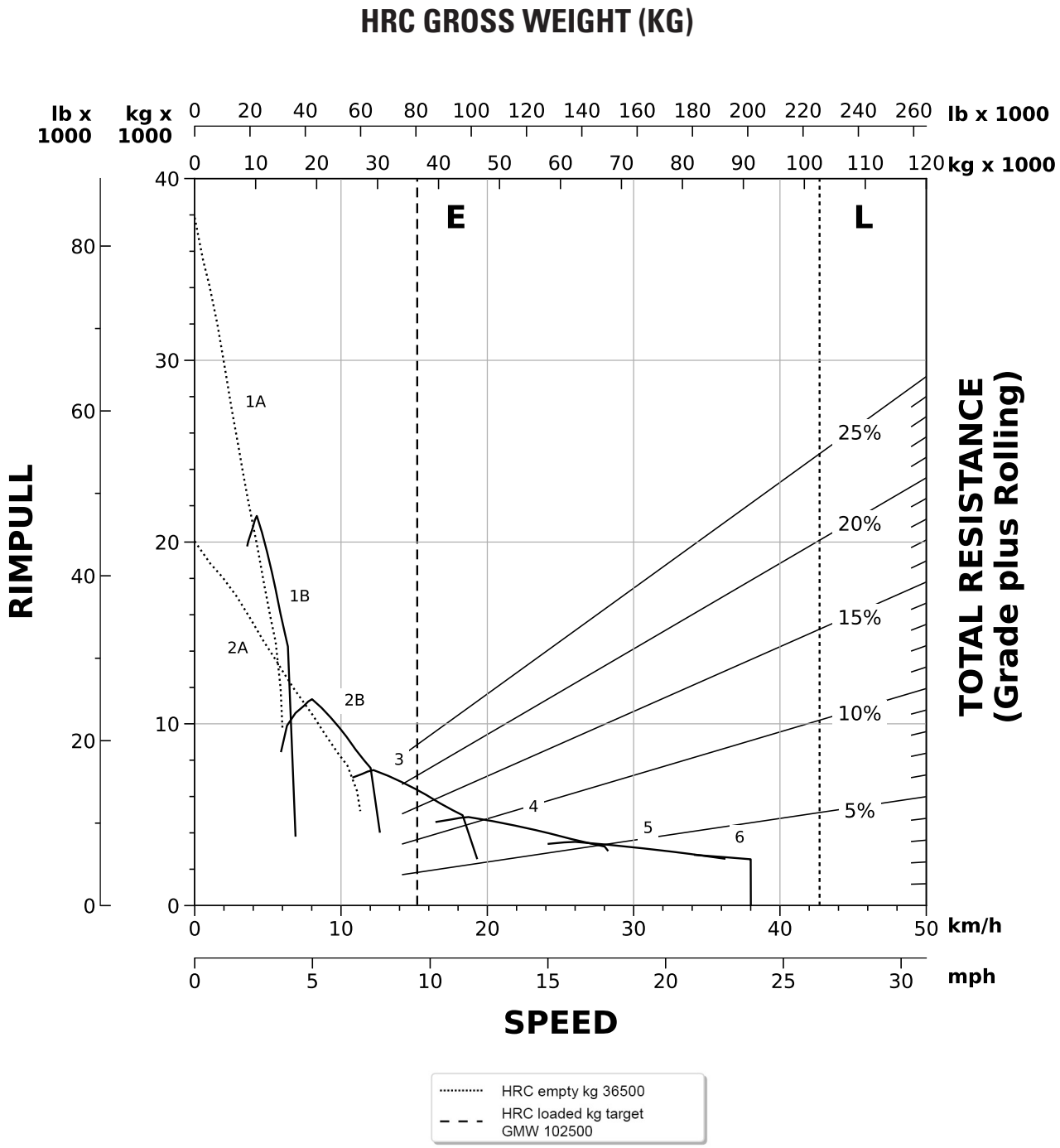

707 Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
POWERTRAIN		
The Cat® 707 with the C13B meets China Nonroad Stage IV emission standards; the C13 meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3	✓	
Braking system: service dry air brakes, parking brake	✓	
Cat engine brake	✓	
Cat CX31RT transmission 6-speed automatic powershift	✓	
Cat hydraulic retarder fully integrated in CX31RT transmission		✓
Secondary steering		✓
ELECTRICAL		
LED lights	✓	
LED lights high lumens		✓
Jump starter		✓
Radio		✓
Radio ready	✓	
OPERATOR ENVIRONMENT		
Cat operator seat with 2-point seatbelt	✓	
Cat operator seat air suspended		✓
Cat operator seat with 3-point seatbelt		✓
Rearview camera		✓
Cat cab	✓	
Cat cab with operator and trainer rollover protective structure (ROPS)		✓
Cat cab with operator and trainer falling objects protective structure (FOPS)	✓	
Trainer seat		✓
DCDC converter		✓
24V power source	✓	
TECHNOLOGY PRODUCTS		
Product Link™	✓	
Network manager		✓
24v - 12v converter		✓

	Standard	Optional
BODY		
Tailgate body – general-duty 40 m^3	✓	
Tailgate body – heavy-duty 40 m^3	✓	
Tailgate body – general-duty 42 m^3		✓
Tailgate body – heavy-duty 42 m^3		✓
WEATHER		
Weather Package – high ambient fluids		✓
Weather Package – x2 battery	✓	
Cold Weather Package-lite (CNR4) – x2 battery		✓
Cold Weather Package (CNR4) – x4 battery		✓
OTHER		
Spare tire – bias		✓
Spare tire – radial		✓
Spare tire – Radial Advance (tubeless) (16.00R25 GLR29PRO normal distance)		✓
Spare tire – Radial Advance (high TPKH)		✓
Spare tire – Radial Advance (tubeless) (GLR32 long distance)		✓
Wheel chocks		✓
Air conditioning and heat	✓	

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

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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