



775

Off-Highway Truck

Technical Specifications

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

Table of Contents

Specifications	2
Engine – Meets U.S. EPA Tier 4 Final/EU Stage V emission standards. .2	Steering
Engine – Emits equivalent to U.S. EPA Tier 2	2
Transmission – Tier 4 Final/Stage V	2
Transmission – Tier 2 Equivalent	2
Final Drives	2
Brakes	2
Body Hoists – Tier 4 Final/Stage V	2
Body Hoists – Tier 2 Equivalent	2
Capacity – High Performance – 100% Fill Factor	3
Weight Distributions – Approximate	3
Suspension	3
Sound	3
Air Conditioning System	3
Steering	3
Rollover Protective Structure (ROPS)/Falling Objects Protective Structure (FOPS)	3
Tires	3
Service Refill Capacities	3
Weight/Payload Calculation – Tier 4 Final/Stage V Examples	4
Weight/Payload Calculation – Tier 2 Equivalent Examples	5
10/10/20 Payload Management Policy for Optimal Machine Life	6
Dimensions	7
Retarding Performance – Tier 4 Final/Stage V	8
Gradeability/Speed/Rimpull – Tier 4 Final/Stage V	11
Retarding Performance – Tier 2 Equivalent	12
Gradeability/Speed/Rimpull – Tier 2 Equivalent	15
Standard and Optional Equipment	16
775 Environmental Declaration	18

775 Off-Highway Truck Specifications

Engine – U.S. EPA Tier 4 Final/EU Stage V

Engine Model	Cat® C27	
Rated Power	1,800 rpm	
Gross Power – SAE J1995:2014	615 kW	825 hp
Engine Power – ISO 14396:2002	605 kW	811 hp
Net Power – SAE J1349:2011	553 kW	742 hp
Net Power – ISO 9249:2007	553 kW	742 hp
Peak Torque Power	1,200 rpm	
Net Torque – SAE J1349:2011	4205 N·m	3,101 lb-ft
Net Torque Rise – SAE J1349:2011	43%	
Bore	137 mm	5.3 in
Stroke	152 mm	6.0 in
Displacement	27 L	1,647 in ³

Engine – U.S. EPA Tier 2 Equivalent

Engine Model	Cat C27	
Rated Speed	2,000 rpm	
Gross Power – SAE J1995	615 kW	825 hp
Engine Power – ISO 14396:2002	605 kW	811 hp
Net Power – SAE J1349:2011	551 kW	749 hp
Net Power – ISO 9249:2007	551 kW	749 hp
Peak Torque Power	1,300 rpm	
Net Torque – SAE J1349:2011	3781 N·m	2,788 lb-ft
Net Torque Rise – SAE J1349:2011	44%	
Bore	137 mm	5.4 in
Stroke	152 mm	6.0 in
Displacement	27 L	1,648 in ³

- The power ratings are tested at the reference conditions for the specified standard.
- Net power advertised is the power available at the rated speed, measured at the flywheel when the engine is equipped with alternator, air cleaner, muffler, and fan.
- MIN NET SAE J1349:2011/ISO 9249:2007 Net power advertised is the power available at the flywheel when the engine is equipped with fan at maximum speed, air intake system, exhaust system, and alternator.
- Net torque rise meets SAE J1349.

Transmission – Tier 4 Final/Stage V

Forward 1	10.7 km/h	6.6 mph
Forward 2	14.9 km/h	9.3 mph
Forward 3	20.2 km/h	12.6 mph
Forward 4	27.1 km/h	16.9 mph
Forward 5	36.7 km/h	22.8 mph
Forward 6	49.5 km/h	30.8 mph
Forward 7	67.0 km/h	41.6 mph
Reverse	14.0 km/h	8.7 mph

- Maximum travel speeds with standard 24.00R35 tires.

Transmission – Tier 2 Equivalent

Forward 1	10.8 km/h	6.7 mph
Forward 2	15.1 km/h	9.4 mph
Forward 3	20.4 km/h	12.7 mph
Forward 4	27.4 km/h	17.0 mph
Forward 5	37.1 km/h	23.0 mph
Forward 6	50.0 km/h	31.1 mph
Forward 7	67.7 km/h	42.1 mph
Reverse	14.2 km/h	8.8 mph

- Maximum travel speeds with standard 24.00R35 tires.

Final Drives

Differential Ratio	3.64:1
Planetary Ratio	4.80:1
Total Reduction Ratio	17.49:1

Brakes

Brake surface OD – Front	655 mm	25.7 in
Brake Surface – Rear	61 269 cm ²	9,497 in ²
Brake Standards	ISO 3450:2011	

Body Hoists – Tier 4 Final/Stage V

Pump Flow – High Idle	448 L/min	118 gal/min
Relief Valve Setting – Raise	17 250 kPa	2,502 psi
Relief Valve Setting – Lower	3450 kPa	500 psi
Body Raise Time – High Idle	9.5 seconds	
Body Lower Time – Float	12.5 seconds	

Body Hoists – Tier 2 Equivalent

Pump Flow – High Idle	448 L/min	118 gal/min
Relief Valve Setting – Raise	17 250 kPa	2,502 psi
Relief Valve Setting – Lower	3450 kPa	500 psi
Body Raise Time – High Idle	9.5 seconds	
Body Lower Time – Float	12.5 seconds	

Capacity – High Performance – 100% Fill factor

Struck	35.4 m ³	46.3 yd ³
Heaped (SAE 2:1)*	45.0 m ³	58.8 yd ³

- Contact your local Cat dealer for body recommendation.
- *ISO 6483:1980

Weight Distributions – Approximate

Front Axle – Empty	52%
Front Axle – Loaded	34%
Rear Axle – Empty	48%
Rear Axle – Loaded	66%

Suspension

Effective Cylinder Stroke Front	212 mm	8.3 in
Effective Cylinder Stroke Rear	137 mm	5.4 in
Rear Axle Oscillation	±9.0°	
Front Axle Wheel Travel	248 mm	

Sound Performance – Tier 4 Final/Stage V

Operator Sound Level (ISO 6396:2008)	76 dB(A)
Machine Sound Level (ISO 6395:2008)	119 dB(A)

- The operator sound pressure level is 76 dB(A), measured according to the test procedures and conditions specified in ISO 6396:2008 for the standard machine configuration. The measurement was conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level is 118 dB(A), measured according to the test procedures and conditions specified in ISO 6395:2008 for the standard machine configuration. The measurement was conducted at 70% of the maximum engine cooling fan speed.

Sound Performance – Tier 2 Equivalent

Operator Sound Level (ISO 6396:2008)	73 dB(A)
Machine Sound Level (ISO 6395:2008)	118 dB(A)

- The operator sound pressure level is 73 dB(A), measured according to the test procedures and conditions specified in ISO 6396:2008 for the standard machine configuration. The measurement was conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level is 118 dB(A), measured according to the test procedures and conditions specified in ISO 6395:2008 for the standard machine configuration. The measurement was conducted at 70% of the maximum engine cooling fan speed.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R1234yf. Refer to the machine labeling for identification of the gas.
 - If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 1.85 kg (4.1 lb) of refrigerant which has a CO₂ equivalent of 0.001 metric tonnes (0.001 tons)

Steering

Steering Standards	ISO 5010:2019	
Steer Angle	36°	
Turning Diameter – Front	17.7 m	58 ft 0 in
Turning Circle Clearance Diameter	20.2 m	66 ft 0 in

ROPS/FOPS

Rollover Protective Structure (ROPS)/Falling Objects Protective Structure (FOPS) Standards

- Rollover protective structure (ROPS) meets ISO 3471:2008 for operator and ISO 13459:2012 for trainer ROPS criteria.
- Falling objects protective structure (FOPS) meets ISO 3449:2005 Level II for operator and ISO 13459:2012 Level II for trainer FOPS criteria.

Tires

Standard Tire	24.00R35
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- Productive capabilities of the 775 truck are such that, under certain job conditions, tons kilometers per hour (TKPH)/tons miles per hour (TMPH) capabilities of standard or optional tires could be exceeded and, therefore, limit production.
- Caterpillar recommends the customer evaluate all job conditions and consult the tire manufacturer for proper tire selection.

Service Refill Capacities

Fuel Tank	795 L	210.0 gal
Cooling System (Tier 4)	192 L	50.7 gal
Cooling System (Tier 2 Equivalent)	185 L	48.9 gal
Engine Crankcase	90 L	23.8 gal
Differential	218 L	57.6 gal
Final Drives (each)	15 L	4.0 gal
Steering System (includes tank)	54 L	14.3 gal
Hoist and Brake Hydraulic System	322 L	85.1 gal
Transmission and Converter System (Tier 4)	70 L	18.5 gal
Transmission and Converter System (Tier 2 Equivalent)	61 L	16.1 gal
Front Wheels	4.3 L	1.1 gal

775 Off-Highway Truck Specifications

Weight/Payload Calculation – Tier 4 Final/Stage V Examples

Body Configuration		HP Quarry Body (No Body Heat)		Liner		Rubber Liner		Tail Extension		HP Quarry Body (with Body Heat)	
Capacity by Volume (SAE 2:1)	m ³ (yd ³)	45	58.9	44.5	58.2	42.8	56	48.4	63.3	45	58.9
Struck (SAE)	m ³ (yd ³)	35.4	46.3	34.9	45.6	33.2	43.4	37.4	48.9	35.4	46.3
Sidewall Plate Thickness	mm (in)	12	0.5	8	0.3	8	0.3			12	0.5
Front Wall Plate Thickness	mm (in)	16	0.6	10	0.4	10	0.4			16	0.6
Floor Plate Thickness	mm (in)	25	1.0	16	0.6	106	4.2			25	1.0
Machine Weights Based on Configuration											
Empty Chassis Weight	kg (lbs)	34 114	(75,208)	34 114	(75,208)	34 114	(75,208)	34 114	(75,208)	34 130	(75,244)
Body Weight	kg (lbs)	12 002	(26,461)	12 002	(26,461)	12 002	(26,461)	12 002	(26,461)	12 254	(27,016)
Body Attachment Weight	kg (lbs)	0	(0)	4457	(9,825)	4276	(9,427)	765	(1,687)	0	(0)
Empty Machine Weight	kg (lbs)	46 116	(101,669)	50 573	(111,493)	50 392	(111,095)	46 881	(103,356)	46 384	(102,260)
Fuel Level (100%)	kg (lbs)	621	(1,368)	621	(1,368)	621	(1,368)	621	(1,368)	621	(1,368)
Debris Weight	kg (lbs)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Optional Attachment Weight	kg (lbs)	50	(111)	50	(111)	50	(111)	50	(111)	50	(111)
Empty Operating Weight	kg (lbs)	46 787	(103,147)	51 243	(112,972)	51 063	(112,574)	47 552	(104,835)	47 055	(103,738)
Target Gross Machine Weight	kg (lbs)	111 811	(246,500)	111 811	(246,500)	111 811	(246,500)	111 811	(246,500)	111 811	(246,500)
Payload											
Target Payload (100%)	tonnes (tons)	65.0	(71.6)	60.5	(66.7)	60.7	(66.9)	64.2	(70.8)	64.7	(71.3)
Maximum Payload (110%)	tonnes (tons)	71.5	(78.8)	66.6	(73.4)	66.8	(73.6)	70.6	(77.9)	71.2	(78.5)
Not to Exceed Payload (120%)	tonnes (tons)	78.0	(86.0)	72.6	(80.1)	72.8	(80.3)	77.1	(84.9)	77.7	(85.6)

775 Off-Highway Truck Specifications

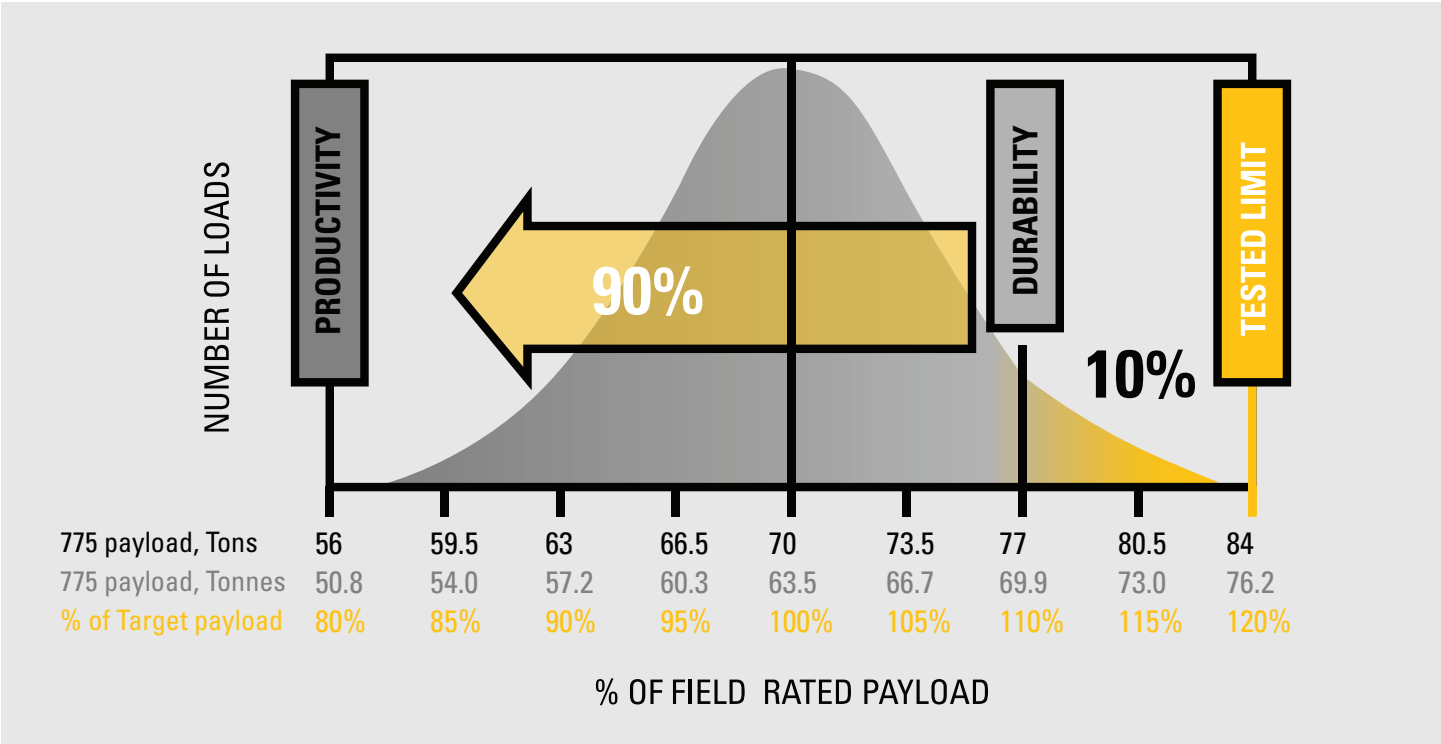
Weight/Payload Calculation – Tier 2 Equivalent Examples

Body Configuration		HP Quarry Body (No Body Heat)		Liner		Rubber Liner		Tail Extension		HP Quarry Body (with Body Heat)	
Capacity by Volume (SAE 2:1)	m ³ (yd ³)	45	58.9	44.5	58.2	42.8	56.0	48.4	63.3	45	58.9
Struck (SAE)	m ³ (yd ³)	35.4	46.3	34.9	45.6	33.2	43.4	37.4	48.9	35.4	46.3
Sidewall Plate Thickness	mm (in)	12	0.5	8	0.3	8	0.4			12	0.5
Front Wall Plate Thickness	mm (in)	16	0.6	10	0.4	10	0.4			16	0.6
Floor Plate Thickness	mm (in)	25	1.0	16	0.6	106	4.2			25	1.0
Machine Weights Based on Configuration											
Empty Chassis Weight	kg (lbs)	33 554	(73,974)	33 554	(73,974)	33 554	(73,974)	33 554	(73,974)	33 570	(74,010)
Body Weight	kg (lbs)	12 002	(26,461)	12 002	(26,461)	12 002	(26,461)	12 002	(26,461)	12 254	(27,016)
Body Attachment Weight	kg (lbs)	0	(0)	4457	(9,825)	4276	(9,427)	765	(1,687)	0	(0)
Empty Machine Weight	kg (lbs)	45 557	(100,435)	50 013	(110,260)	49 833	(109,862)	46 322	(102,123)	45 825	(101,026)
Fuel Level (100%)	kg (lbs)	621	(1,368)	621	(1,368)	621	(1,368)	621	(1,368)	621	(1,368)
Debris Weight	kg (lbs)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Optional Attachment Weight	kg (lbs)	50	(111)	50	(111)	50	(111)	50	(111)	50	(111)
Empty Operating Weight	kg (lbs)	46 227	(101,914)	50 684	(111,739)	50 503	(111,341)	46 933	(103,601)	46 495	(102,505)
Target Gross Machine Weight	kg (lbs)	111 811	(246,500)	111 811	(246,500)	111 811	(246,500)	111 811	(246,500)	111 811	(246,500)
Payload											
Target Payload (100%)	tonnes (tons)	65.5	(72.2)	61.1	(67.3)	61.3	(67.5)	64.8	(71.4)	65.3	(71.9)
Maximum Payload (110%)	tonnes (tons)	72.1	(79.5)	67.2	(74.1)	67.4	(74.3)	71.2	(78.5)	71.8	(79.1)
Not to Exceed Payload (120%)	tonnes (tons)	78.6	(86.6)	73.3	(80.8)	73.5	(81.0)	77.7	(85.7)	78.3	(86.3)

775 Off-Highway Truck Specifications

10/10/20 Payload Management Policy for Optimal Machine Life

The ideal hauling strategy that maximizes machine and machine component life is to *keep the mean of all payloads at or below the machine's rated target payload.*



90% of loads should fall into this range



No more than 10% of loads should exceed 10% of the target payload

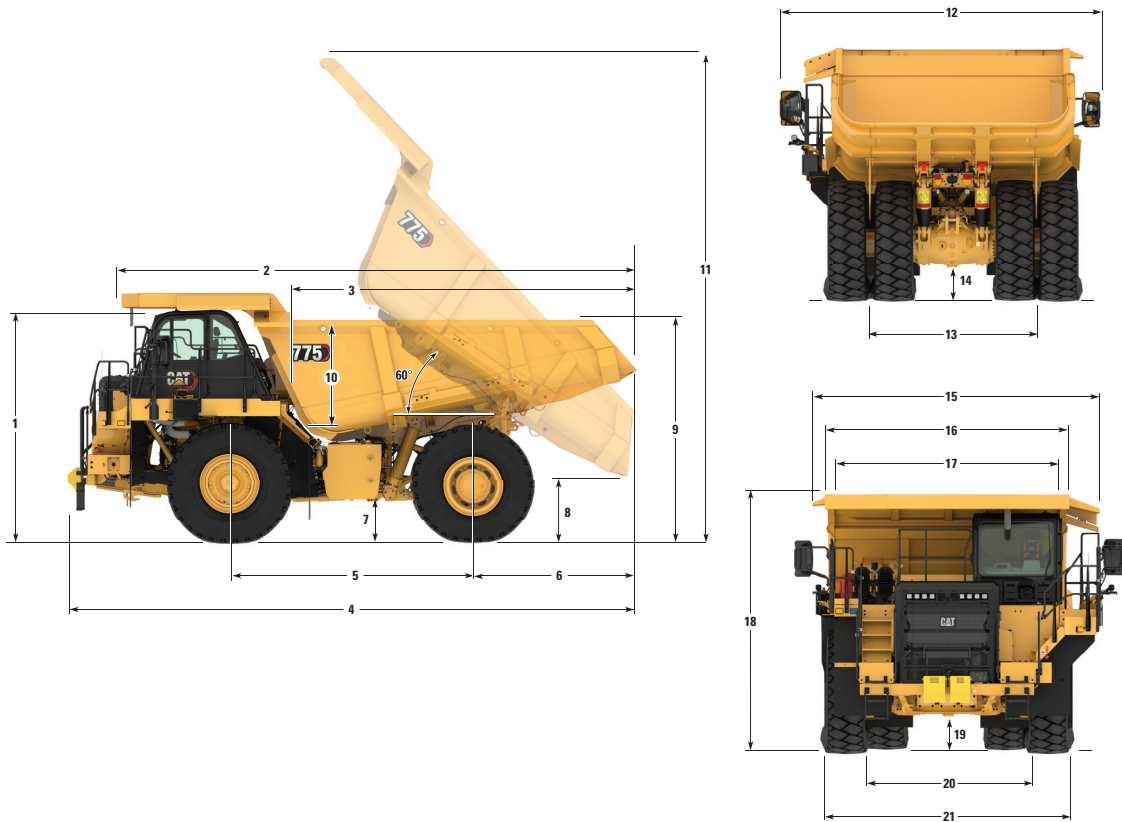


No loads should be above 20% of the target payload

775 Off-Highway Truck Specifications

Dimensions

All dimensions are approximate.



Quarry		
1	Height to Top of ROPS	4187 mm 13.73 ft
2	Overall Body Length	9216 mm 30.23 ft
3	Inside Body Length	6300 mm 20.66 ft
4	Overall Length	10 025 mm 32.89 ft
5	Wheelbase	4344 mm 14.25 ft
6	Rear Axle to Tail	2918 mm 9.57 ft
7	Ground Clearance	583 mm 1.91 ft
8	Dump Clearance	761 mm 2.49 ft
9	Loading Height – Empty	3996 mm 13.11 ft
10	Inside Body Depth – Maximum	2010 mm 6.59 ft
11	Overall Height – Body Raised	9291 mm 30.48 ft
12	Operating Width	5758 mm 18.89 ft
13	Centerline Front Tire Width	3544 mm 11.62 ft
14	Engine Guard Clearance	851 mm 2.79 ft
15	Overall Canopy Width	4996 mm 16.39 ft
16	Outside Body Width	4190 mm 13.74 ft
17	Inside Body Width	3968mm 13.01 ft
18	Front Canopy Height	4403mm 14.44 ft
19	Rear Axle Clearance	610 mm 2.00 ft
20	Centerline Rear Dual Tire Width	2930 mm 9.61 ft
21	Overall Tire Width	4450 mm 14.59 ft

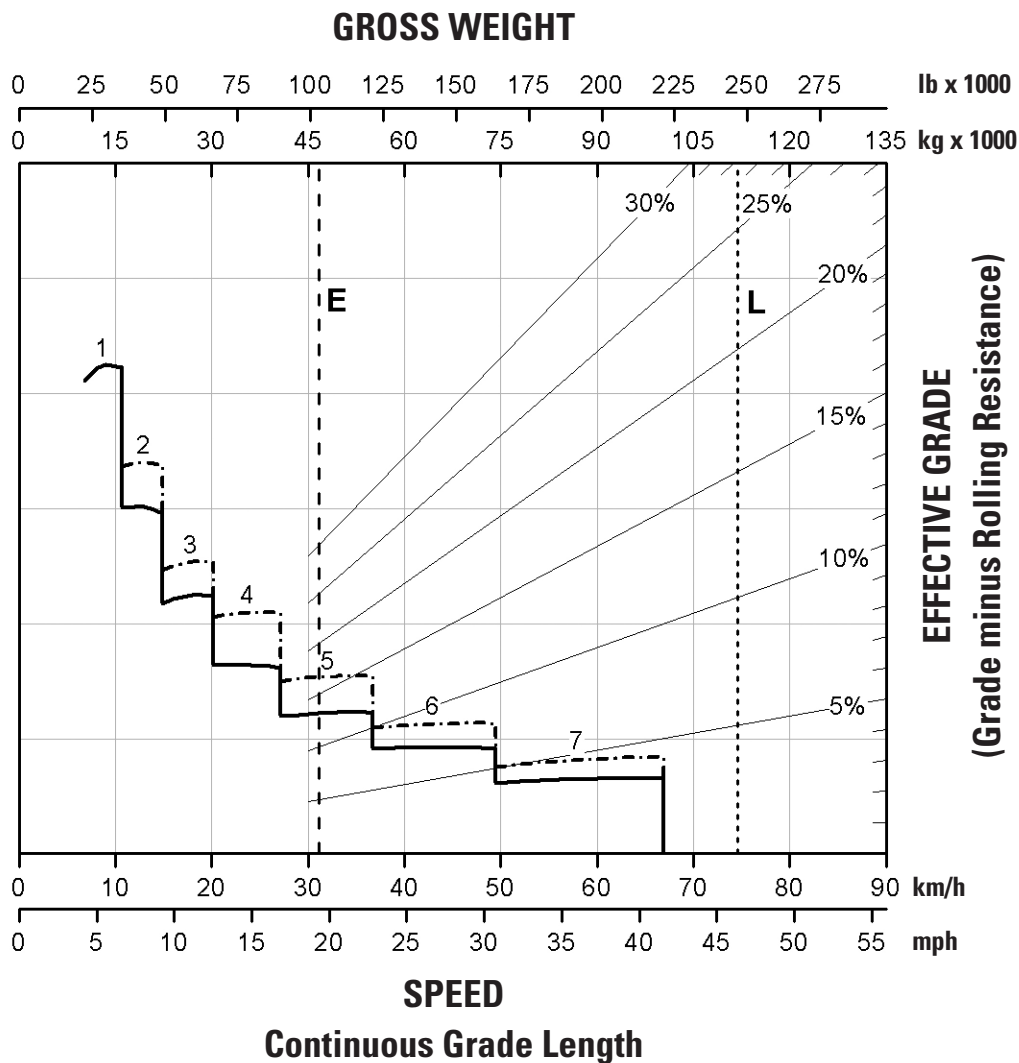
775 Off-Highway Truck Specifications

Retarding Performance – Tier 4 Final/Stage V

To determine retarding performance: Add lengths of all downhill segments and, using this total, refer to proper retarding chart. 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 24.00R35 (E4) 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.



—— with ARC only

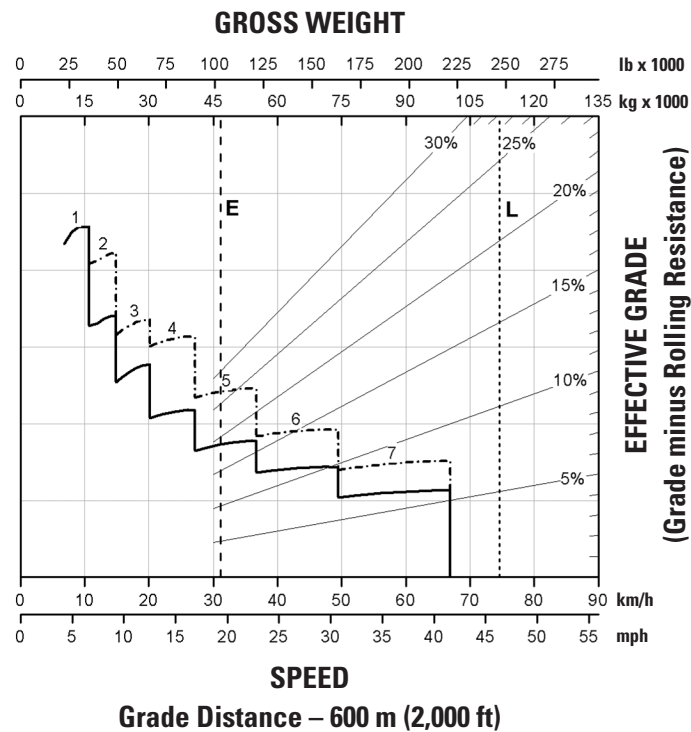
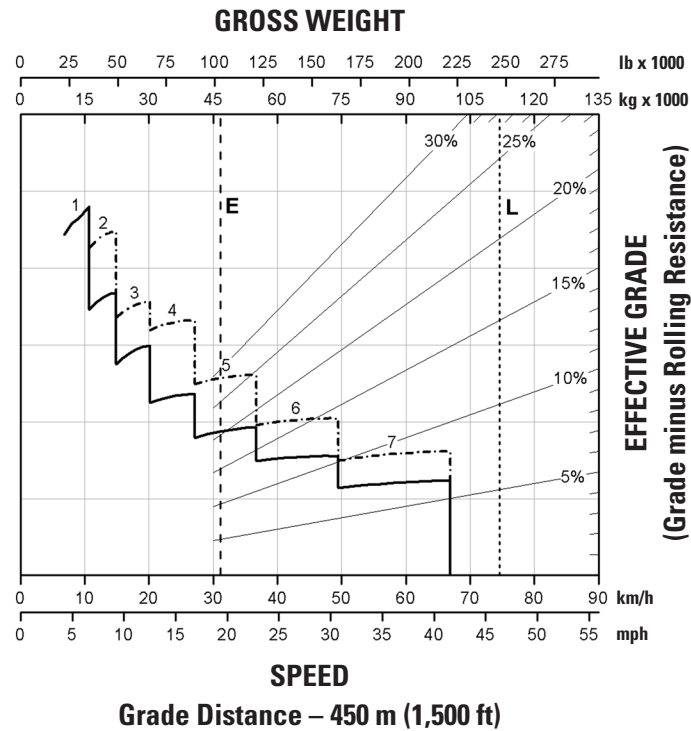
- - - - - ARC and Engine Brake

E – Typical Field Empty Weight

L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)

775 Off-Highway Truck Specifications

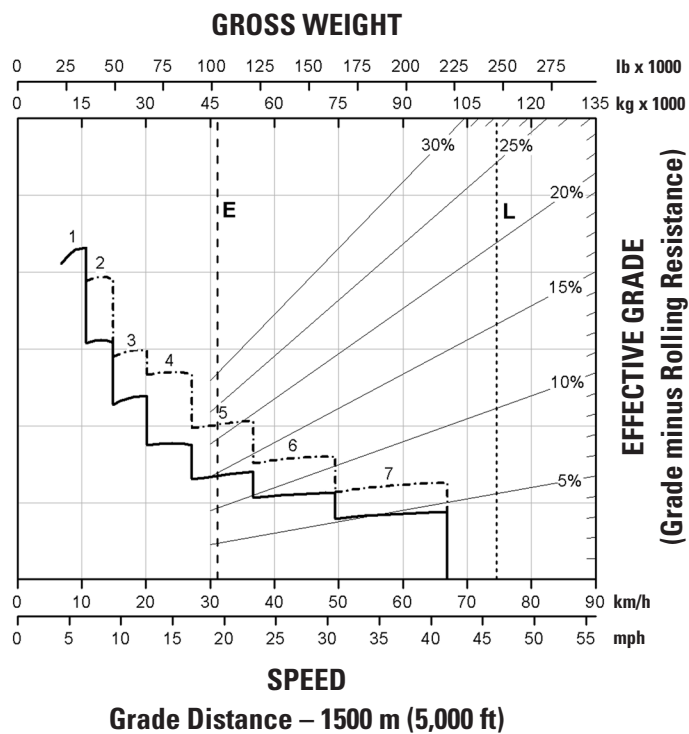
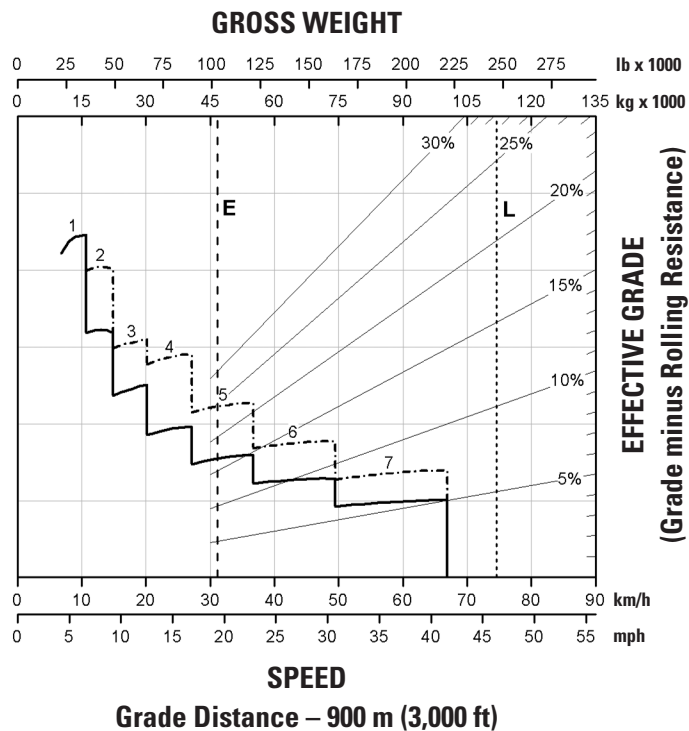
Retarding Performance – Tier 4 Final/Stage V



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775 Off-Highway Truck Specifications

Retarding Performance – Tier 4 Final/Stage V

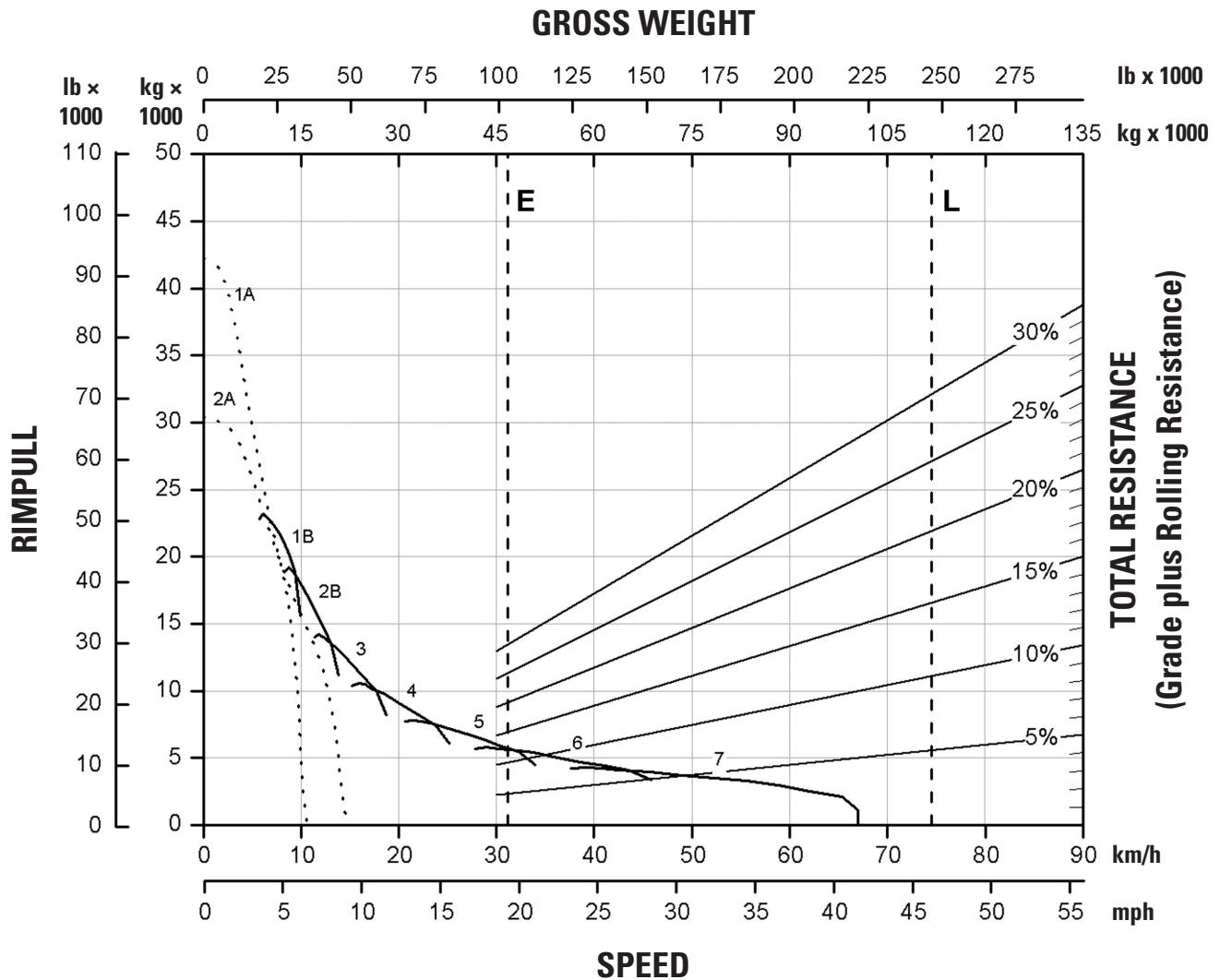


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L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)

775 Off-Highway Truck Specifications

Gradeability/Speed/Rimpull – Tier 4 Final/Stage V

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.



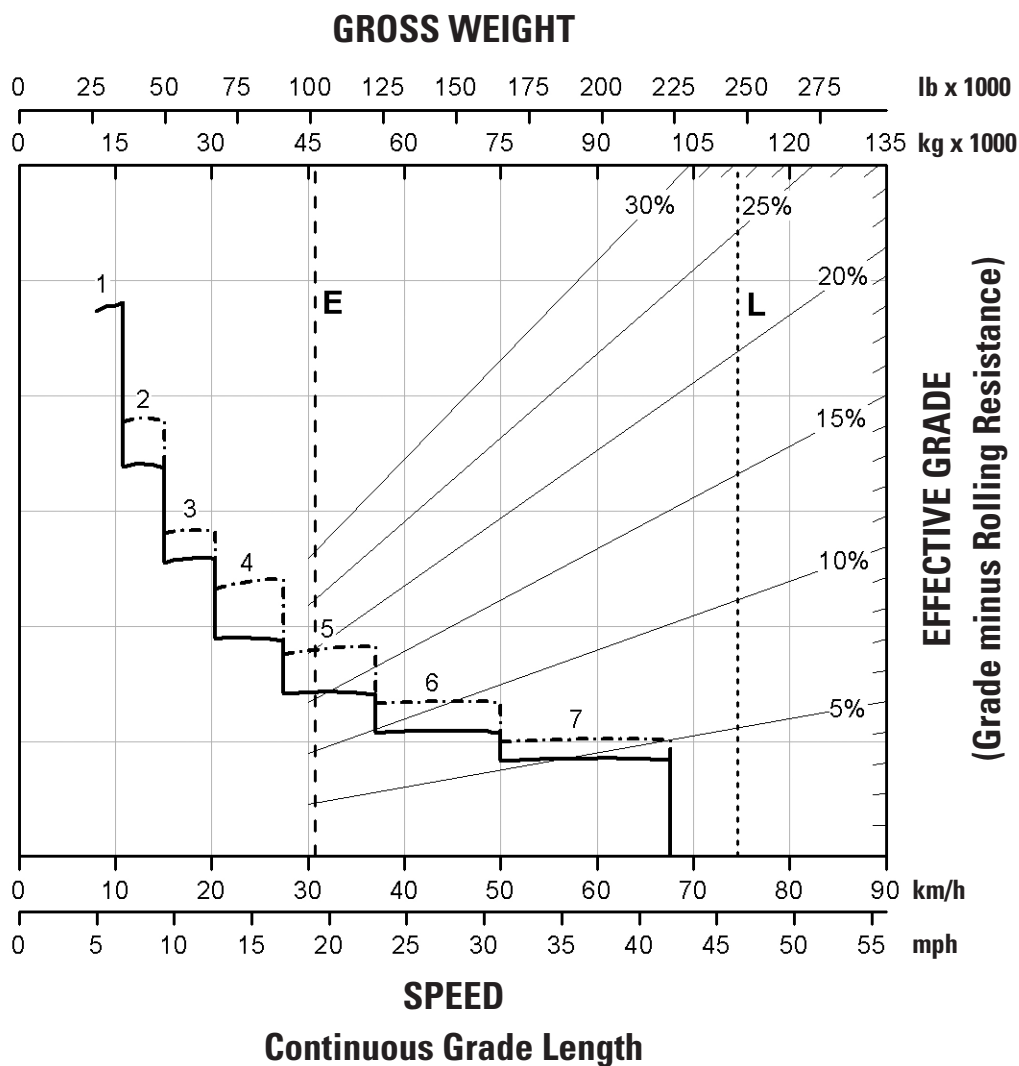
775 Off-Highway Truck Specifications

Retarding Performance – Tier 2 Equivalent

To determine retarding performance: Add lengths of all downhill segments and, using this total, refer to proper retarding chart. 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 24.00R35 (E4) tires.

NOTE: Select the proper gear to maintain engine rpm at the highest possible level, without overspeeding the engine.

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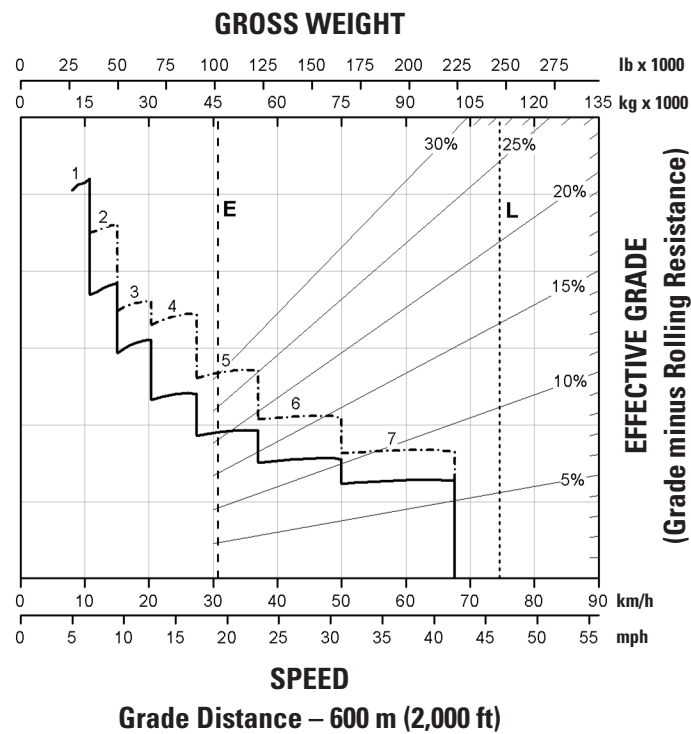
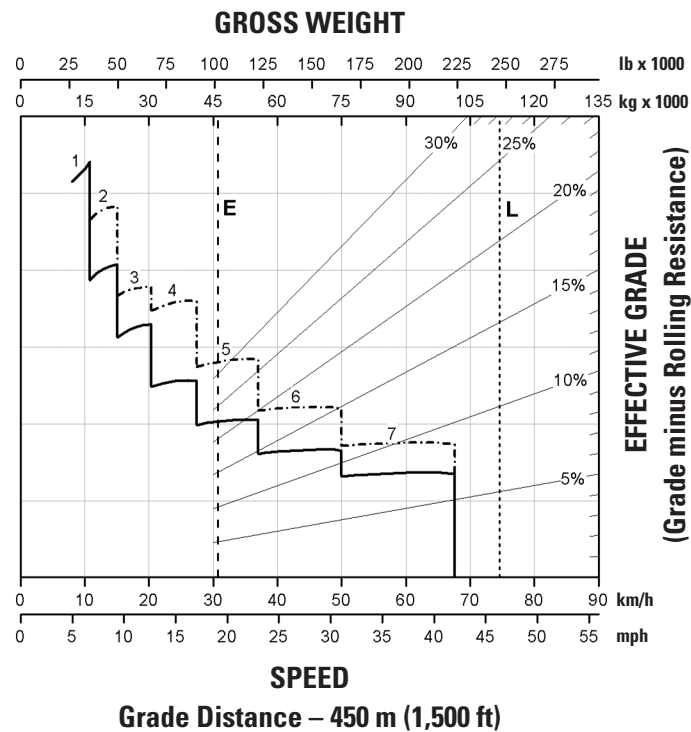
—— with ARC only

----- ARC and Engine Brake

E – Typical Field Empty Weight

L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)

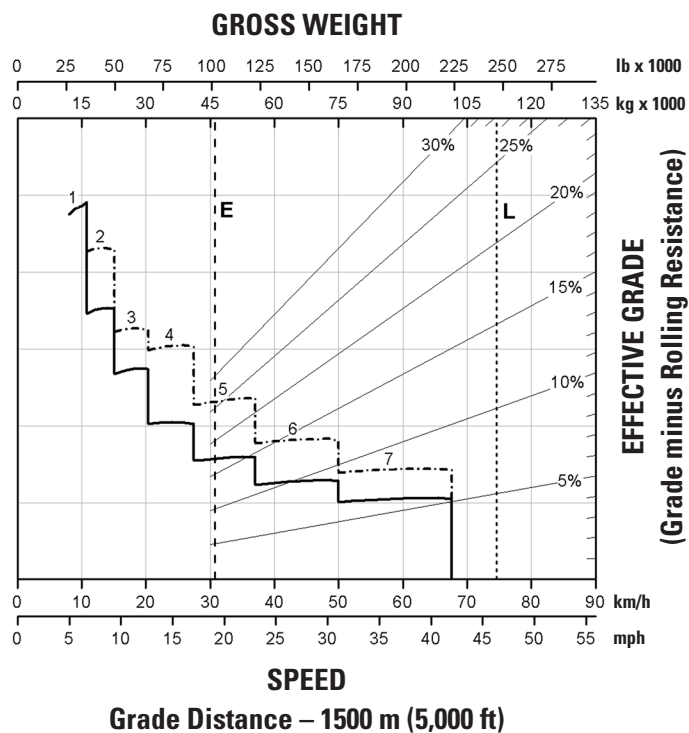
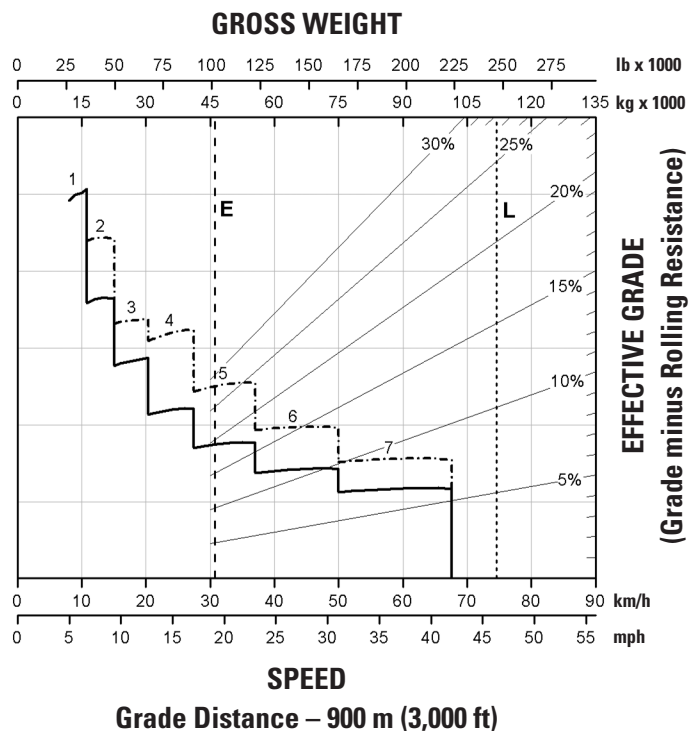
Retarding Performance – Tier 2 Equivalent



— with ARC only
 - - - - - ARC and Engine Brake
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775 Off-Highway Truck Specifications

Retarding Performance – Tier 2 Equivalent

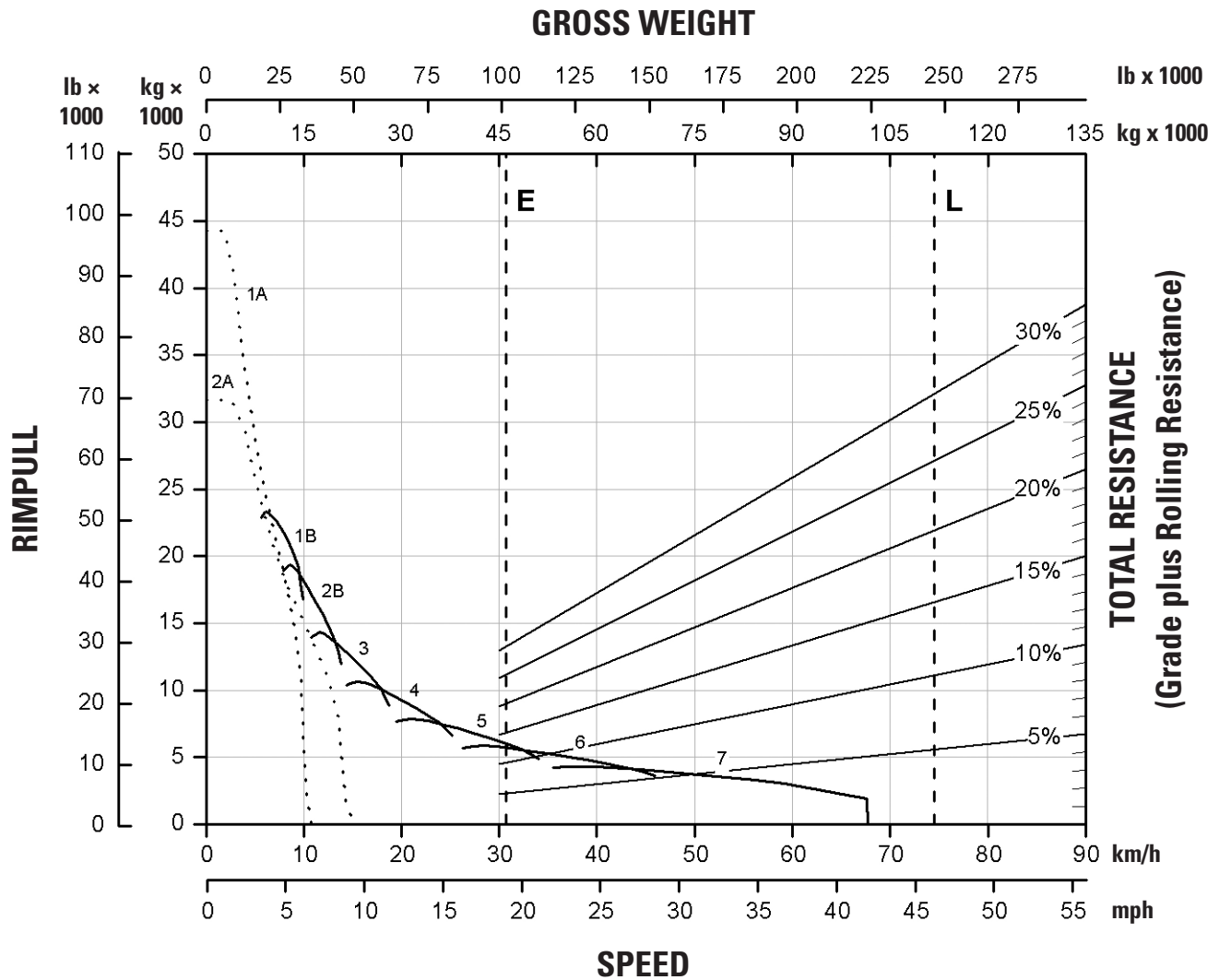


—— with ARC only
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 E – Typical Field Empty Weight
 L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)

775 Off-Highway Truck Specifications

Gradeability/Speed/Rimpull – Tier 2 Equivalent

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.



775 Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWERTRAIN			OPERATOR ENVIRONMENT (CONTINUED)		
C27 U.S. EPA Tier 4 Final/EU Stage V or U.S. EPA Tier 2 diesel engine: air filters with precleaner (2), air-to-air aftercooler (ATAAC), electric start, engine idle shutdown, exhaust muffler, next generation modular radiator (NGMR)	✓		eOMM and real-time grade display	✓	
Braking system: automatic retarder control (ARC), manual retarder (utilizes rear oil-cooled, multiple disc brakes), brake release motor (towing), dry disc brakes (front), brake disconnect switch (front), oil-cooled multiple disc brakes (rear), brake wear indicator (rear), parking brake, secondary brake, service brake	✓		Foot rest	✓	
Cat® engine brake		✓	Gauges/indicators: brake oil temperature gauge, coolant temperature gauge, engine overspeed indicator, fuel level, hour meter, speedometer with odometer, tachometer, transmission gear indicator, and preventative maintenance reminder	✓	
Aftertreatment system – NOx reduction system (NRS), diesel oxidation catalyst (DOC); demand fan; Mechanically Actuated Electronic Unit Injection (MEUI™) -C fuel system (Tier 4 Final/Stage V only.)	✓		Combined shift and hoist lever	✓	
Transmission: 7-speed automatic powershift with electronic clutch pressure control (ECPC), advanced productivity electronic control strategy (APECS); automatic neutral idle, autostall, second gear start	✓		Horn	✓	
ELECTRICAL			Light: courtesy, dome	✓	
Alarm, backup	✓		Power port, 24V and 12V (2)	✓	
Alternator, 150 amp	✓		Mirrors, Heated	✓	
Autolube power supply ready	✓		Mirror, convex cab, left-side		✓
Batteries, maintenance-free, 12V (2), 1,400 CCA combined	✓		Rollover protective structure (ROPS)/falling objects protective structure (FOPS)	✓	
Electrical system, 25 amp, 24V to 12V converter	✓		Rear Camera	✓	
Lighting system: all LED backup lights, directional signals/hazard warning, engine compartment light, headlights with dimmer, operator access courtesy lights, side profile lights, stop/tail lights.	✓		Seatbelt, 4-point seat belt with shoulder harness	✓	
Service center containing: battery jump start, breakers with spare fuses, lockout switch, ports – electronic technician (ET) and Vital Information Management System (VIMS™), service lockout switch (power without engine start)	✓		Seat, deluxe full air suspension	✓	
OPERATOR ENVIRONMENT			Seat, premium leather, heated and cooled		✓
Air cleaner service indicator, fluid level monitoring, fuel level monitoring, display languages (market based)	✓		Seat, training with lap belt	✓	
Air conditioning/heat	✓		Steering wheel, padded, tilt and telescopic	✓	
Automatic temperature control	✓		Storage compartment	✓	
Cab precleaner		✓	Sun visor	✓	
Coat hook	✓		Throttle lock	✓	
Cup holders (4)	✓		Surround vision		✓
Diagnostic connection port, 24V	✓		Surround vision with Cat Detect		✓
Entertainment radio ready: 5 amp converter, speakers, antenna, wiring harness	✓		Window, hinged, right side (emergency exit)	✓	
			Window, powered, left side	✓	
			Windshield wiper, intermittent, and washer	✓	
			TECHNOLOGY PRODUCTS		
			Economy modes, standard and adaptive	✓	
			Product Link™ Dual Mode		✓
			Product Link radio	✓	
			Traction control system (TCS)		✓
			Cat Payload		✓
			Advanced Health (VIMS)	✓	
			Tire management system		✓
			Tire pressure monitoring		✓
			Cat MSS with Operator Code	✓	
			Remote flash/Remote Troubleshooting	✓	
			Seat Belt Reminder System:	✓	
			Seat Belt Alert		
			Seat Belt Inhibit		
			Overload speed limiter	✓	
			Fire Suppression		✓
			Fire Suppression Ready	✓	
			Hill Assist with anti-roll-back		✓

(Continued on next page)

775 Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
OTHER			OTHER (CONTINUED)		
Antifreeze	✓		Ground-level engine shutdown	✓	
Body: Exhaust Body Heat		✓	Grouped ground-level filters	✓	
Body: Steel Liner		✓	Operator maintenance manual (OMM)	✓	
Body: Rubber Liner		✓	Rims 17 × 35	✓	
Body: Sideboard 155mm (6 in)		✓	Rock ejectors	✓	
Body: Tail Extension		✓	Secondary steering (electric)	✓	
Body down indicator	✓		Spare rim		✓
Body safety pin (secures body in up position)	✓		Suspension, front and rear (EU compliant)	✓	
Body Angle Limit		✓	Tie down eyes	✓	
Center-mounted rims	✓		Tow hooks, front/tow pin, rear	✓	
Clustered grease fittings	✓		Wheel chocks		✓
Cold weather packages	✓		Vandalism protection locks	✓	
Driveline guards	✓				
Engine crankcase guards	✓				
Extended life coolant to -34° C (-30° F)	✓				
Fan guards	✓				
Fluid fill service center		✓			
Fuel tank, 795 L (210 gal)	✓				
Ground-level battery disconnect	✓				
Driveshaft catch loop guard	✓				
Tire Pressure Monitoring		✓			
Camera and Radar		✓			
Engine Bay Mud Coverage		✓			

775 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C27 engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards or equivalent to U.S. EPA Tier 2, or equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat U.S. EPA Tier 4 and EU Stage V engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)***
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Cat engines emitting equivalent to U.S EPA Tier 2* with diesel fuel blended with the following lower-carbon intensity fuels*** up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)****
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

**** For use of blends higher than 20% biodiesel, consult your Cat dealer.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R1234yf. Refer to the machine labeling for identification of the gas.
 - If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 1.85 kg (4.1 lb) of refrigerant which has a CO₂ equivalent of 0.001 metric tonnes (0.001 tons)

Sound Performance – Tier 4 Final/Stage V

Operator Sound Level (ISO 6396:2008)	76 dB(A)
Machine Sound Level (ISO 6395:2008)	119 dB(A)

- The operator sound pressure level was measured according to ISO 6396:2008. The measurement was conducted at 70% of the maximum engine cooling fan speed.
- The machine sound power level was measured according to ISO 6395:2008. The measurement was conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

Sound Performance – Tier 2 Equivalent

Operator Sound Level (ISO 6396:2008)	73 dB(A)
Machine Sound Level (ISO 6395:2008)	118 dB(A)

- The operator sound pressure level is 73 dB(A), measured according to the test procedures and conditions specified in ISO 6396:2008 for the standard machine configuration. The measurement was conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level is 118 dB(A), measured according to the test procedures and conditions specified in ISO 6395:2008 for the standard machine configuration. The measurement was conducted at 70% of the maximum engine cooling fan speed.

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Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01% Chromium < 0.01%
 - Cadmium < 0.01% Lead < 0.01%

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Automatically optimize fuel consumption with two fuel economy modes: standard and adaptive
 - Adjustable engine idle shutdown conserves fuel when the truck is in park and idle for a preset amount of time
 - Haul at a more fuel-efficient engine speed and gear selection with speed limiting
 - Traction control system modulates power and braking between the two wheel groups, allowing a more appropriate response to ground conditions
 - Longer service life for hydraulic oil filter provides longer life with a 1,000-hour replacement interval

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	81.95%
Iron	11.90%
Nonferrous Metal	1.45%
Mixed Metal	0.04%
Mixed Metal and Nonmetal	2.47%
Plastic	0.51%
Rubber	0.07%
Mixed Nonmetallic	0.44%
Fluid	0.28%
Other	0.56%
Uncategorized	0.33%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance end-of-life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

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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