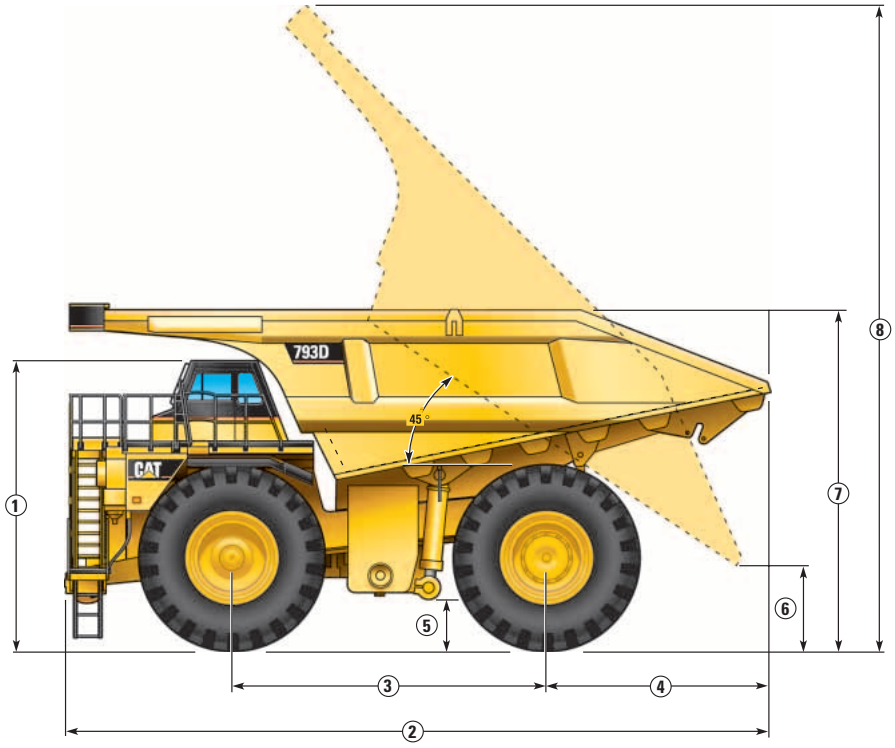
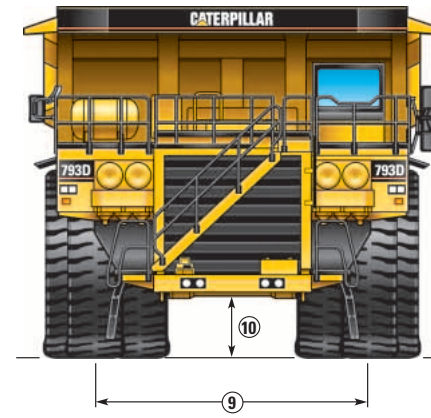
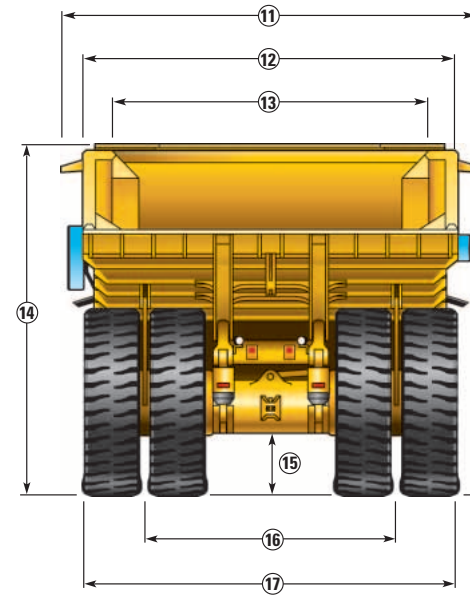
793D Mining Truck

Dimensions

All dimensions are approximate. Shown with MSD II Body. Dimensions are with Dual Slope Body.







1	Height to Top of ROPS	5584 mm	18 ft 4 in
2	Overall Length	12 862 mm	42 ft 3 in
3	Wheelbase	5905 mm	19 ft 5 in
4	Rear Axle to Tail	3772 mm	12 ft 5 in
5	Ground Clearance	1005 mm	3 ft 4 in
6	Dump Clearance	1364 mm	4 ft 6 in
7	Loading Height – Empty	5871 mm	19 ft 4 in
8	Overall Height – Body Raised	13 113 mm	43 ft 1 in
9	Centerline Front Tire Width	5610 mm	18 ft 5 in

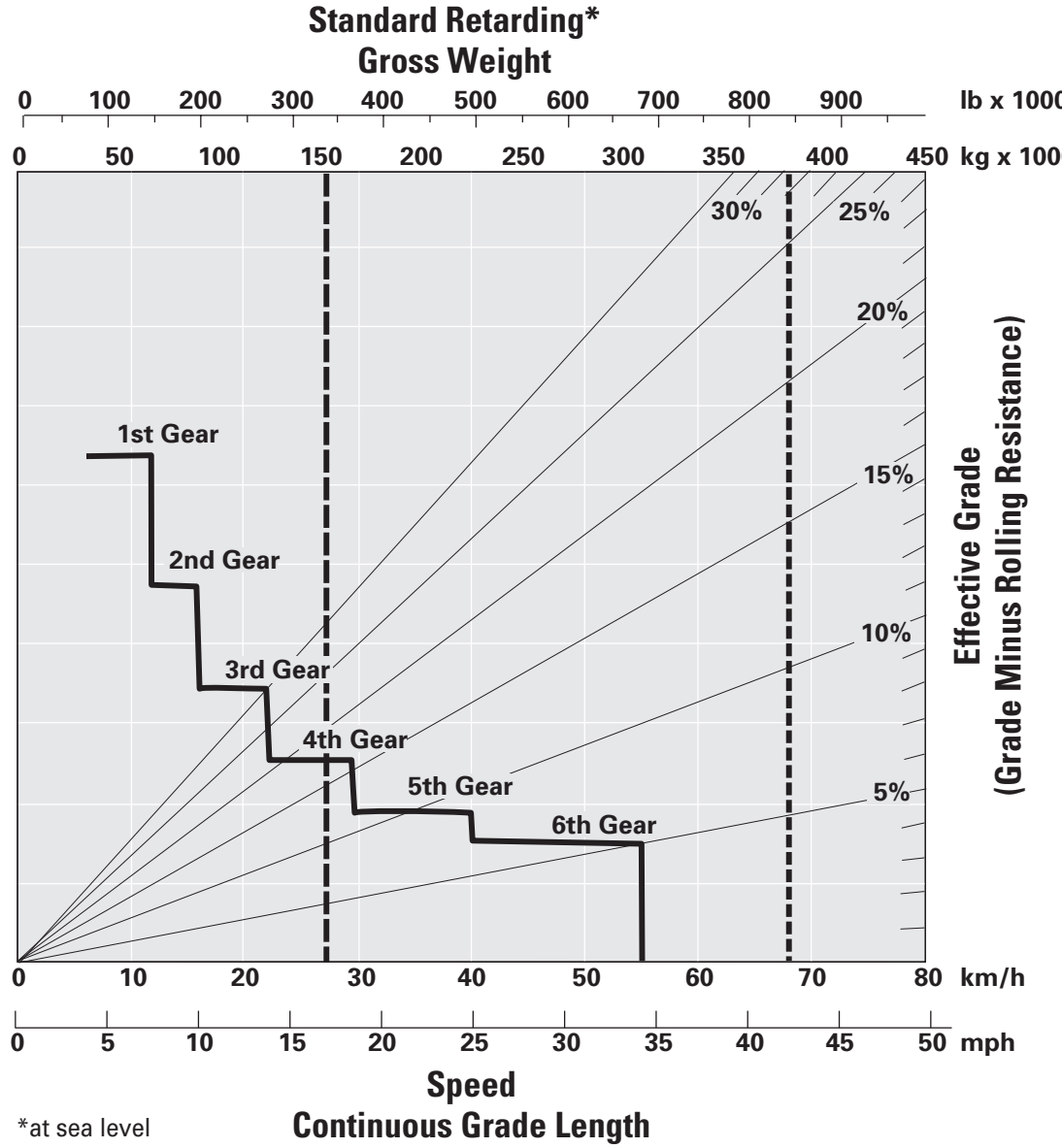
10	Engine Guard Clearance	1294 mm	4 ft 3 in
11	Overall Canopy Width	7680 mm	25 ft 3 in
12	Outside Body Width	6940 mm	22 ft 10 in
13	Inside Body Width	6500 mm	21 ft 4 in
14	Front Canopy Height	6494 mm	21 ft 4 in
15	Rear Axle Clearance	1128 mm	3 ft 8 in
16	Centerline Rear Dual Tire Width	4963 mm	16 ft 3 in
17	Overall Tire Width	7605 mm	24 ft 11 in

Retarding Performance – Standard

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 40.00R57 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.

Typical Field Empty Weight
Gross Machine Operating Weight
383 749 kg/846,000 lb



*at sea level

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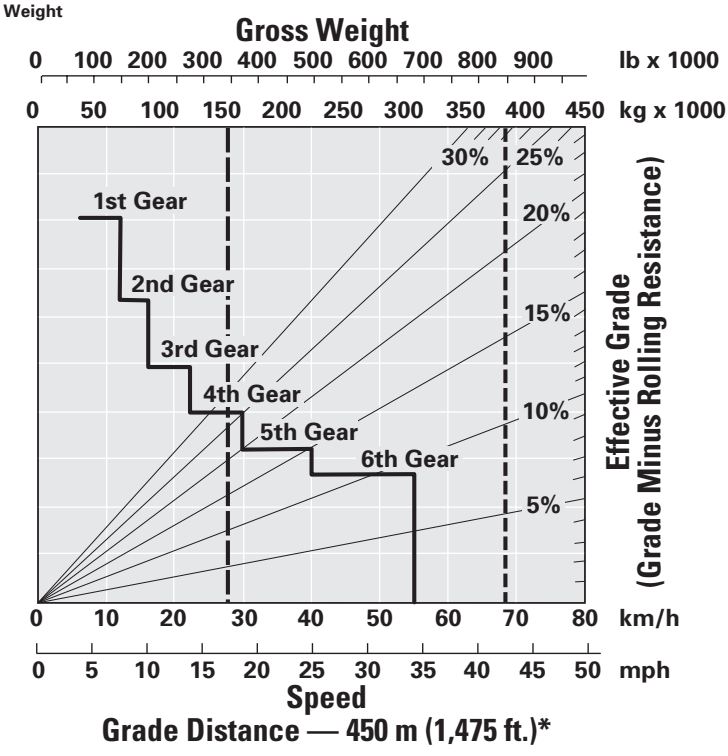

Grade Distance — 450 m (1,475 ft.)*

*at sea level

Typical Field Empty Weight
Gross Machine Operating Weight
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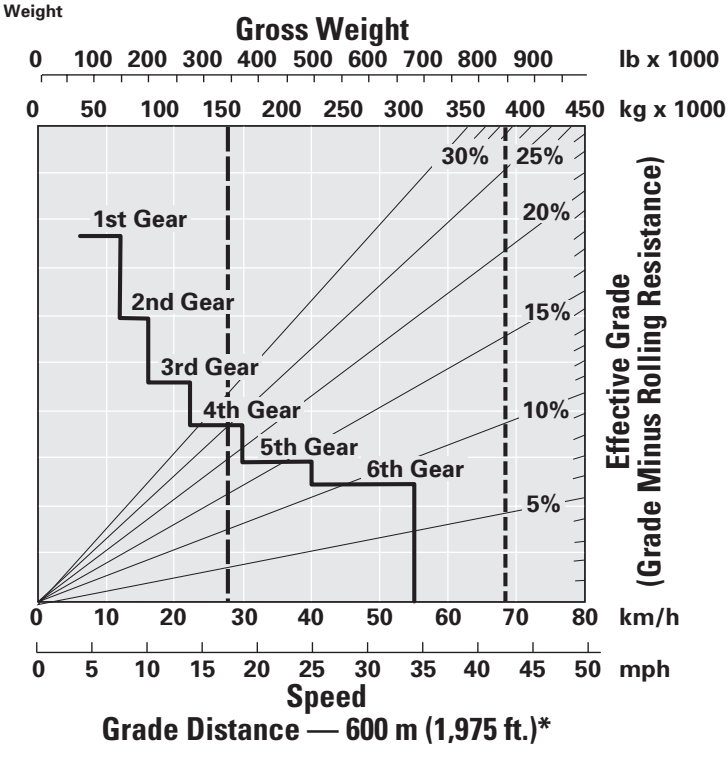

Grade Distance — 600 m (1,975 ft.)*

*at sea level

Retarding Performance – Standard

Typical Field Empty Weight
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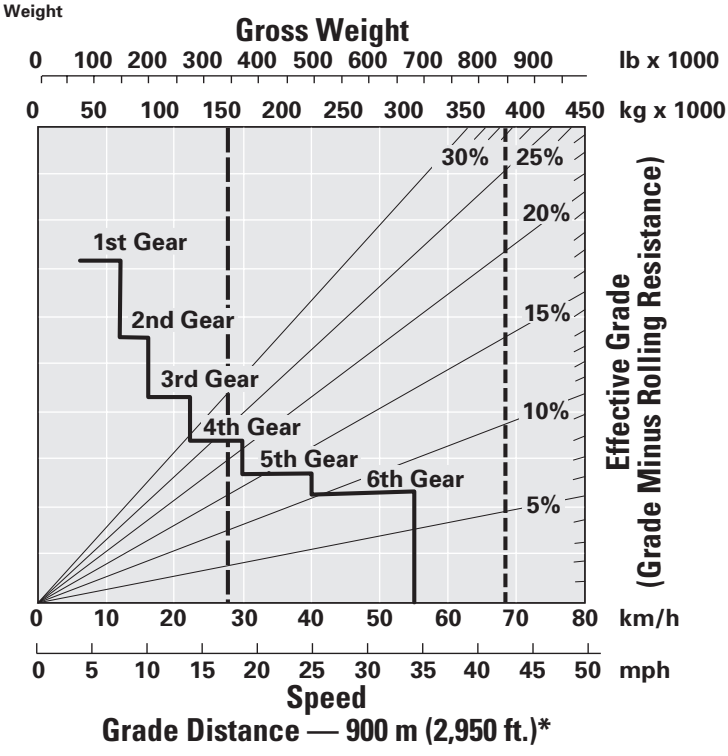

Grade Distance — 900 m (2,950 ft.)*

*at sea level

Typical Field Empty Weight
Gross Machine Operating Weight
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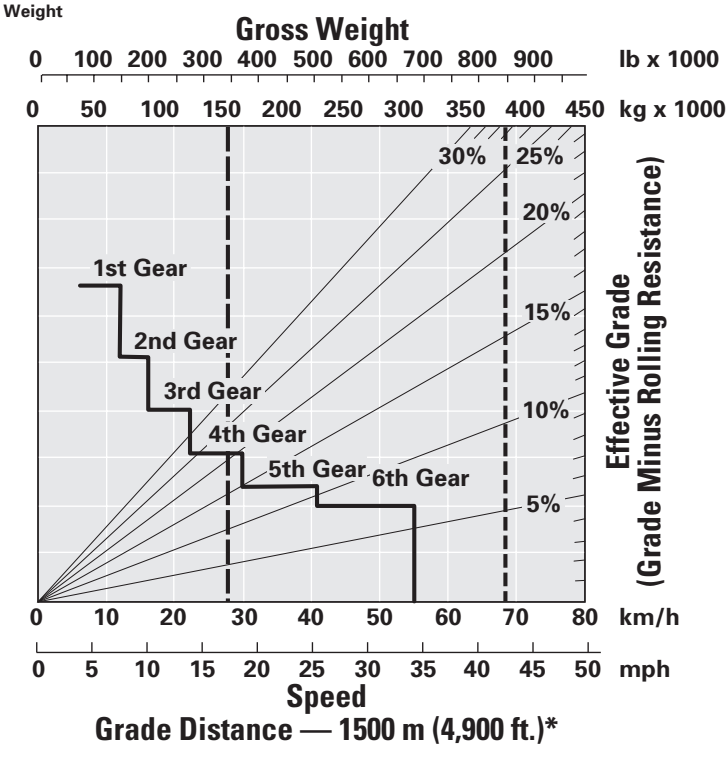

Grade Distance — 1500 m (4,900 ft.)*

*at sea level

Retarding Performance – Extra Retarding

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 40.00R57 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.

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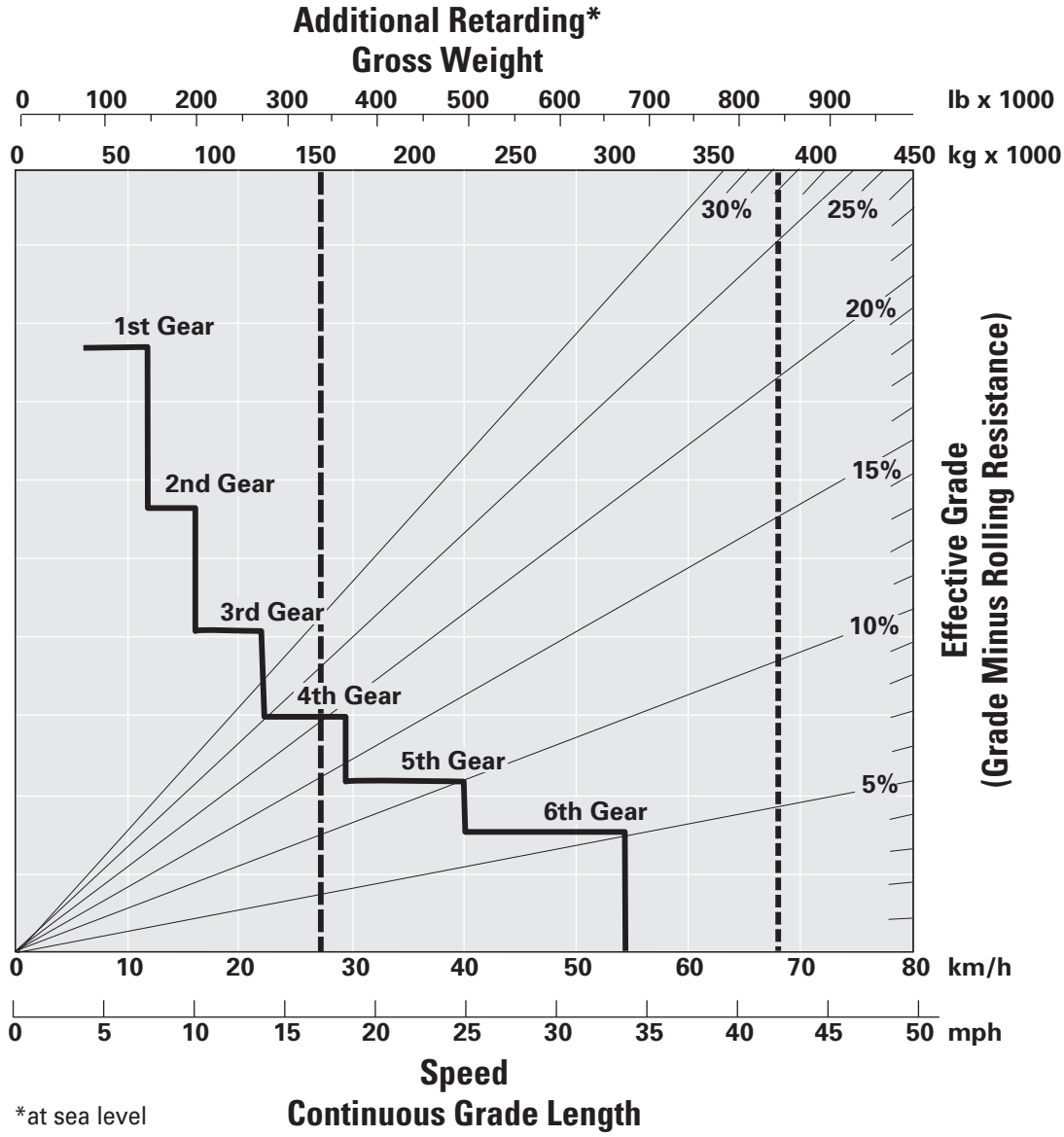

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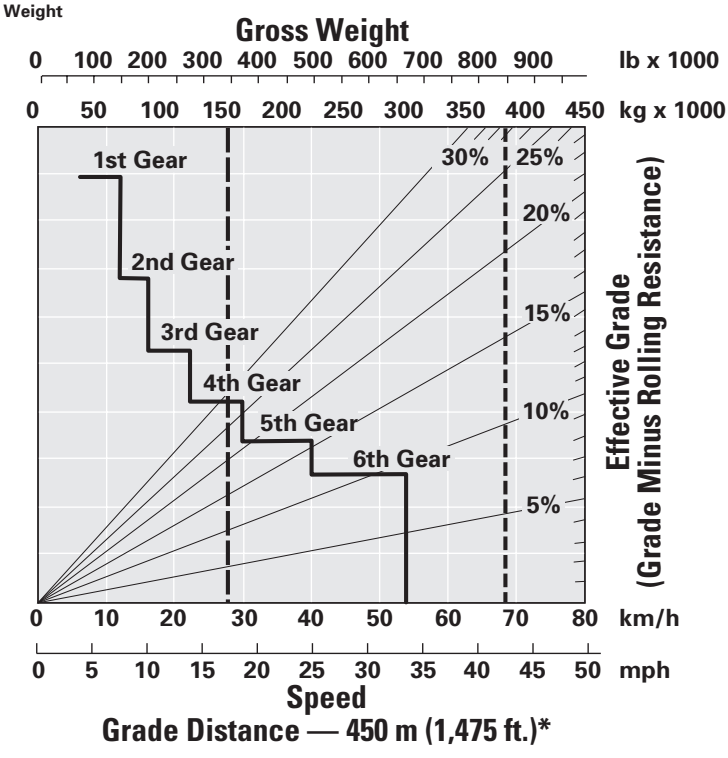

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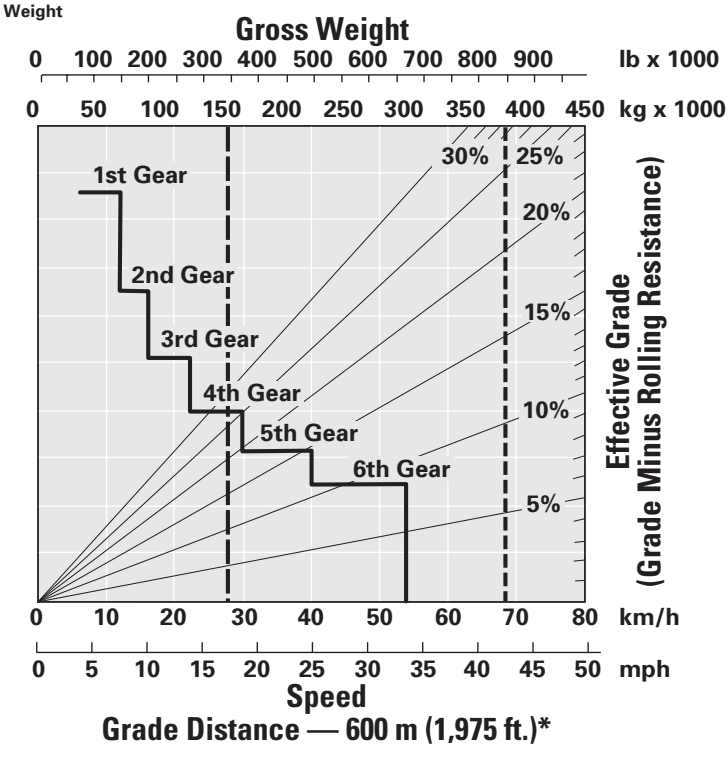

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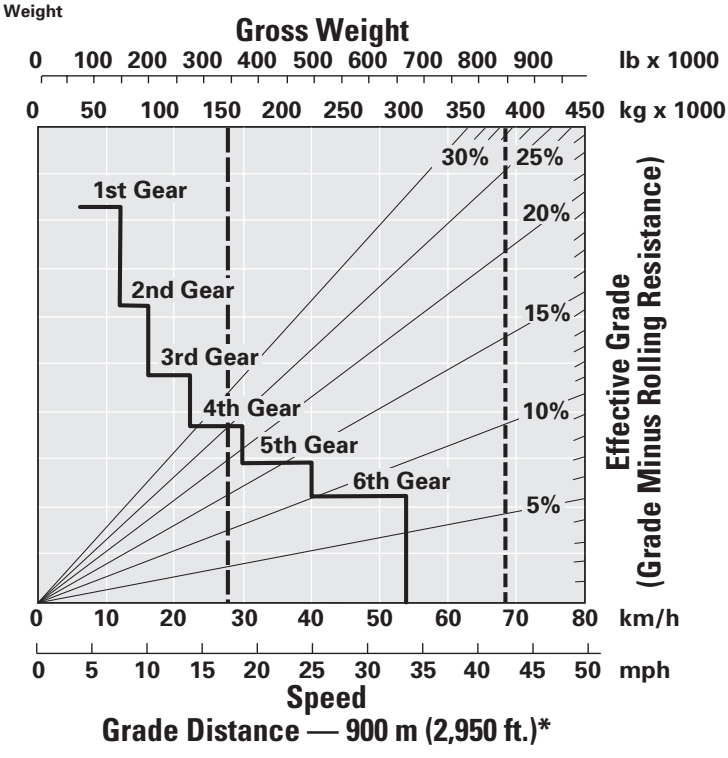

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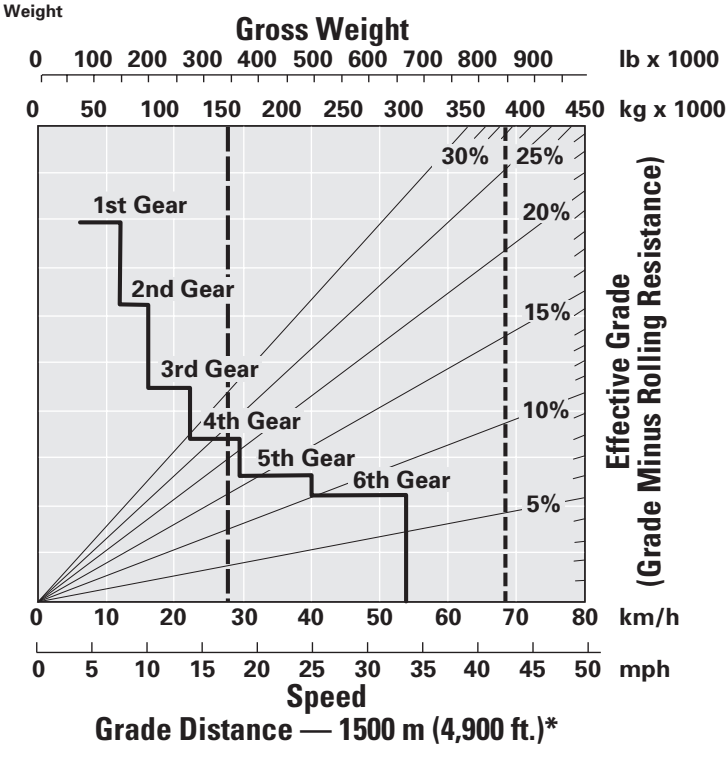
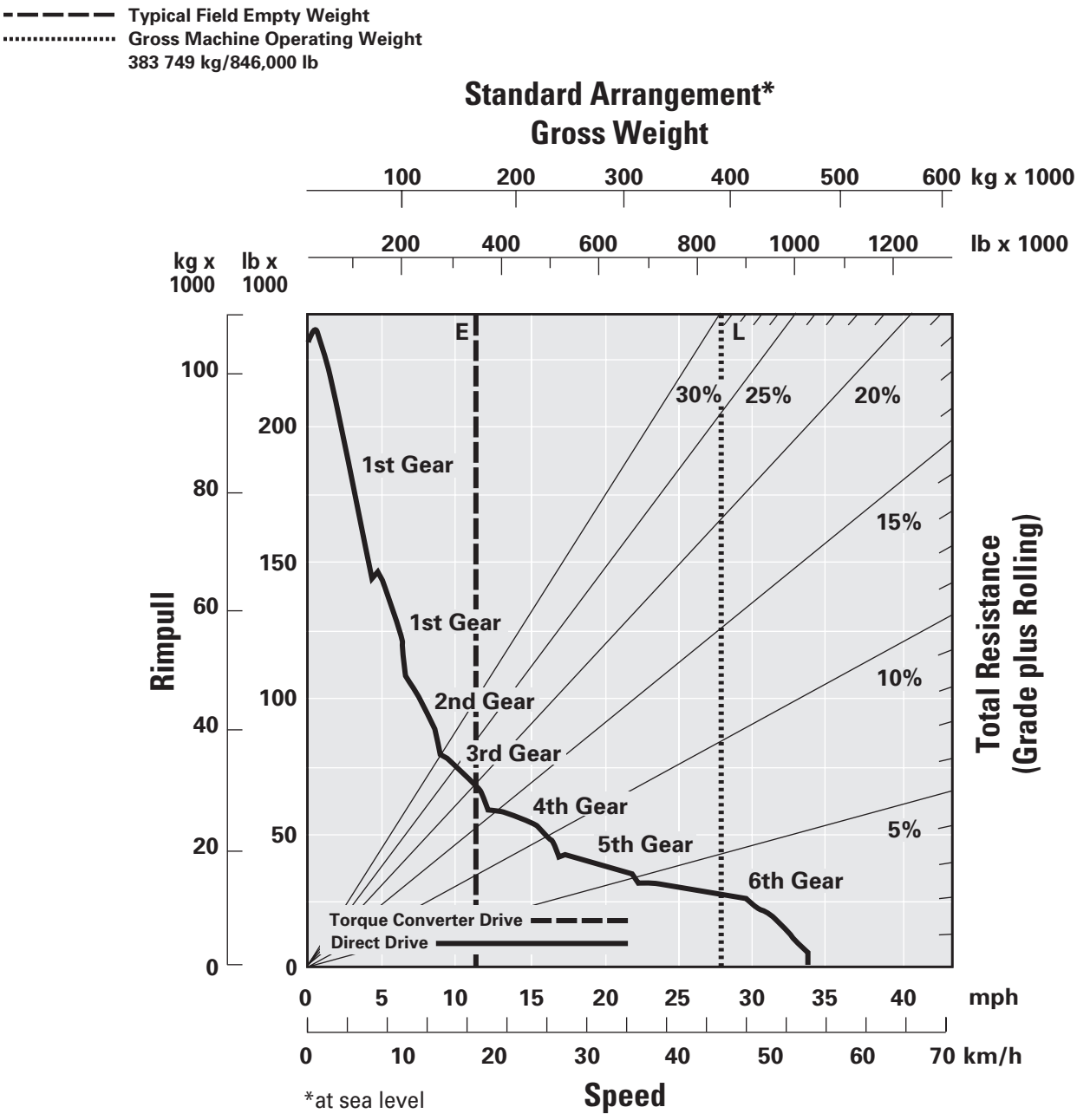


Grade Distance — 1500 m (4,900 ft.)*

*at sea level

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.



Optional Equipment

With approximate changes in operating weights.
Optional equipment may vary. Consult your Caterpillar Dealer for specifics.

	kg	lb
Air suspension companion seat	12	27
Catwalk and handrail assemblies rear of cab	83	183
External payload display	54	119
Fuel tank (4921 L/1,300 gal)	139	306
Heated mirrors	5	10
Heater, engine coolant and oil 240-volt external power	15	33
Heater, fuel recirculation type, non-electric	17	37
HID lights	14	31
Hub odometer (km or miles)	6	13

	kg	lb
Oil Renewal System (ORS)	8	17
Prelubrication system	30	66
Rear axle filtration cooler	75	165
Retractable visor	1	2
Road Analysis Control (RAC)	6	13
Starting systems:		
Air (IR turbine)	-15	-33
Air (TDI turbine)	-31	-68
Transmission lockout – ground level switch	5	11
Wheel chocks	26	57
Wiggins service center	137	302

Weight/Payload Calculation*

	kg	lb
Chassis**	64 061	141,230
Body Mounting Group	735	1,620
Tires (6) 40.00R57	21 364	47,100
Wheel Arrangement – Standard with 29" Rims	30 547	67,344
TOTAL EMPTY CHASSIS WEIGHT (CLEAN)	**116 707**	**257,294**
4% Debris	4668	10,292
Body Weight*	32 129	70,832
Full Liner	11 025	24,306
Tail Extension	1005	2,215
Side Boards	1332	2,936
Gross Machine Weight (empty)	**166 866**	**367,875**

* With Dual Slope Body.
** Includes standard arrangement, 100% fuel, starting system, seats, fan arrangement, exhaust system, tires, and all mandatory attachments less wheel group.