

# INDUSTRIAL ENGINE RATINGS GUIDE



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### **Premium Engines and Components**

Able to meet the toughest challenges in the harshest conditions, Cat® engines are built to fill your needs. Easy to repair, service, and rebuild they're ready to deliver a lifetime of low-cost productivity. With Cat Finance packages we can even assist in your product purchase.

### **Aftermarket Care**

Whether you want urgent repairs and parts or just access to quality technical advise, Wheeler Power Systems is always on hand. Offering same-day or next-day delivery and an expert team that manages every aspect of servicing and maintenance.

### **On-Site Productivity**

Reduce machine downtime and running costs to increase the productivity and profitability of your operations. We deliver the latest technology to help you stay ahead of the competition and keep your equipment running at maximum efficiency. Our goal is to make sure you get full value from your engines, right from the start.

The charts represent only a selection of the power ratings available from the Cat industrial engine range and may not yet be in full production. Other emission standards may be available. Contact us [www.wheelerpowersystems.com/contact](http://www.wheelerpowersystems.com/contact) for advice for your power train.

## Diesel Engine Ratings Definitions

**IND-A (Continuous):** Continuous heavy-duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

**IND-B:** For service where power and/or speed are cyclic (time at full load not to exceed 80%).

**IND-C (Intermittent):** Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

**IND-D:** For service where maximum power is required for periodic overloads (time at full load not to exceed 10% of the duty cycle).

**IND-E:** For service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable (time at full load not to exceed 5% of the duty cycle).

**Rating conditions for engines up to and including 7.1 liter displacement** are based on ISO/TR14396.

**Ratings for engines above 7.1 liter displacement** are based on SAEJ1995.

### Abbreviations for Engine Aspirations

NA = Naturally Aspirated

T = Turbocharged

TA = Turbocharged and Aftercooled

TTA = Series turbocharged and Aftercooled

### Abbreviations for Aftertreatment

DOC = Diesel Oxidation Catalyst

DPF = Diesel Particulate Filter

SCR = Selective Catalytic Reduction

Information is subject to change without notification.

# U.S. EPA & CARB Tier 4 Final

Liters	Model	Cylinders	Aspiration	Power kW (hp)	Rated Speed rpm	Maximum Torque N-m (lb-ft)	Maximum Torque Speed rpm	Aftertreatment	Rating Type	Available as a Power Unit
4.4	C4.4	4	TA	74 (99)	2200	450 (332)	1400	DOC+SCR	C	Y
				82 (110)	2000-2200	560 (413)	1400	DOC+DPF+SCR		
				91 (122)	2000-2200	560 (413)	1400			
				98 (131)	2000-2200	560 (413)	1400			
				106 (142)	2000-2200	560 (413)	1400			
				110 (148)	2000-2200	560 (413)	1400			
			TTA	105 (141)	2000-2200	750 (553)	1400			
				112 (150)	2000-2200	750 (553)	1400			
				117 (157)	2000-2200	750 (553)	1400			
				129 (173)	2000-2200	750 (553)	1400			
				140 (188)	2000-2200	825 (609)	1400			
150 (201)	2200	825 (609)	1400	D						

Liters	Model	Cylinders	Aspiration	Power kW (hp)	Rated Speed rpm	Maximum Torque N·m (lb-ft)	Maximum Torque Speed rpm	Aftertreatment	Rating Type	Available as a Power Unit	
7	C7.1	6	TA	116 (156)	2200	755 (557)	1400	DOC+DPF+SCR	B	Y	
				129 (173)	1800-2200	842 (621)	1400				
				151 (202)	1800-2200	870 (642)	1400				
			TTA	151 (202)	1800-2200	983 (725)	1400		DOC+DPF+SCR		C
				168 (225)	1800-2200	1092 (805)	1400				
				186 (249)	1800-2200	1214 (895)	1400				
				205 (275)	2200	1257 (927)	1400				
				225 (302)	2200	1282 (946)	1400				
				239 (320)	1800	1268 (935)	1400				
9.3	C9.3B	6	TA	250 (335)	1800-2200	1537 (1134)	1400	DOC+DPF+SCR	A	Y	
				280 (375)	1800-2200	1721 (1269)	1400		B		
				310 (416)	1800-2200	1904 (1404)	1400		C		
				340 (456)	1800-2000	2088 (1540)	1400		D		

## U.S. EPA & CARB Tier 4 Final

Liters	Model	Cylinders	Aspiration	Power kW (hp)	Rated Speed rpm	Maximum Torque N-m (lb-ft)	Maximum Torque Speed rpm	Aftertreatment	Rating Type	Available as a Power Unit
12.5	C13	6	TA	287 (385)	1800-2100	1760 (1298)	1400	DOC+DPF+SCR	A	Y
				310 (416)	1800-2100	1903 (1404)	1400		B	
				328 (440)	1800-2100	2012 (1484)	1400		C	
				354 (475)	1800-2100	2176 (1605)	1400		D	
	C13B			388 (520)	1800-2100	2381 (1756)	1400		A	
				340 (456)	1800-2100	2082 (1536)	1400		B	
				370 (496)	1800-2100	2266 (1671)	1400		C	
				400 (536)	1800-2100	2450 (1807)	1400		D	
				430 (577)	1800-2100	2634 (1943)	1400			
15.2	C15	6	TA	354 (475)	1800-2100	2174 (1604)	1400	DOC+DPF+SCR	A	Y
				354 (475)	1800-2100	2174 (1604)	1400		B	
				403 (540)	1800-2100	2469 (1821)	1400		C	
				433 (581)	1800-2100	2655 (1958)	1400		D	

Liters	Model	Cylinders	Aspiration	Power kW (hp)	Rated Speed rpm	Maximum Torque N·m (lb·ft)	Maximum Torque Speed rpm	Aftertreatment	Rating Type	Available as a Power Unit
18.1	C18	6	TA	429 (575)	1800-2000	2695 (1988)	1300	DOC+DPF+SCR	A	Y
				447 (599)	1800-2000	2813 (2075)	1300		B	
				470 (630)	1800-2000	2953 (2178)	1300		C	
			TTA	563 (755)	1800	3501 (2582)	1300	DOC	D	
				597 (801)	1800	3710 (2736)	1300			
27	C27	12	TA	597 (801)	1800	3635 (2681)	1200	DOC	A	Y
				653 (876)	1800	4022 (2967)	1200		B	
				709 (951)	1800	4355 (3212)	1200		C	
				783 (1050)	1800	4674 (3448)	1200		D	
32	C32	12	TA	746 (1000)	1800	5184 (3824)	1200	DOC	B	Y
				839 (1125)	1800	5499 (4056)	1200		C	
78	3516E	16	TA	1566 (2100)	1650	11220 (8276)	1200	SCR	A	



## Basic Specifications

<b>Model</b>	<b>Bore mm (in)</b>	<b>Stroke mm (in)</b>	<b>Length mm (in) Front of Crank Pulley to Rear Face of Flywheel Housing</b>	<b>Width mm (in)</b>	<b>Height mm (in)</b>	<b>Dry Weight kg (lbs)</b>
C7.1	105 (4.1)	135 (5.3)	1074 (42.3)	721 (28.4)	824 (32.4)	704 (1552)
C9.3B	115 (4.5)	149 (5.9)	1125 (44.3)	791 (31.1)	1068 (42)	865 (1907)
C13B	130 (5.1)	157 (6.2)	1274 (50.2)	994 (39.1)	1134 (44.6)	1125 (2481)
C15	137 (5.4)	171 (6.7)	1438 (56.6)	943 (37.1)	1239 (48.8)	1542 (3400)
C18	145 (5.7)	183 (7.2)	1438 (56.6)	943 (37.1)	1239 (48.8)	1542 (3400)
C27	137 (5.4)	152 (6)	1874 (73.8)	1600 (63)	1370 (53.9)	3004 (6624)
C4.4	105 (4.1)	127 (5)	631 (24.8)	626 (24.6)	958 (37.7)	360 (794)

<b>Model</b>	<b>Bore mm (in)</b>	<b>Stroke mm (in)</b>	<b>Length mm (in) Front of Crank Pulley to Rear Face of Flywheel Housing</b>	<b>Width mm (in)</b>	<b>Height mm (in)</b>	<b>Dry Weight kg (lbs)</b>
C32	145 (5.7)	162 (6.4)	1874 (73.8)	1600 (63)	1370 (53.9)	3004 (6624)
3516C	170 (6.7)	215 (8.5)	3278 (129)	1530 (60.2)	2062 (81.2)	7840 (17287)

**Notes**

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Wheeler Power Systems can answer any questions you have about Cat Power Systems, customer support, parts, or service capability visit our website [www.wheelerpowersystems.com](http://www.wheelerpowersystems.com)

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Materials and specifications are subject to change without notice. Rating ranges listed include the lowest and highest available for a specific engine or family of engines. Load factor and time at rated load and speed will determine the best engine/rating match.

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