

# 2019 INDUSTRIAL ENGINE RATINGS GUIDE

Edition 1



**CAT**<sup>®</sup>  
LET'S DO THE WORK.™



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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, your Cat dealer is always on hand. Our dealer network is available worldwide, 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 your Cat dealer [www.cat.com/dealer](http://www.cat.com/dealer) 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.

## EU Stage V

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
0.51	C0.5	2	NA	8.8 (11.8)	3000	30 (22)	2000	–	C	
0.76	C0.7	3	NA	12.2 (16.4)	2800	45 (33)	2400	–	C	
				13.3 (17.8)	3600	44 (32)	2400			
1.1	C1.1	3	NA	14.7 (19.7)	2200	67 (49)	2000	–	C	
				16.1 (22)	2400	67 (49)	2000			
				18.4 (25)	2800	67 (49)	2000			
				18.9 (25)	2800	69 (51)	2000			
			T	18.4 (25)	2400	90 (66)	1600			

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
1.7	C1.7	3	NA	18.4 (25)	2200	92 (68)	1600	-	C	
				18.4 (25)	2800	85 (63)	1800			
				18.9 (25)	2200	98 (72)	1400			
				18.9 (25)	2800	87 (64)	1800			
			T	17.7 (24)	2200	100 (74)	1600			
				18.2 (24)	2200	103 (76)	1600			
				18.4 (25)	2200	94 (69)	1700			
				18.4 (25)	2800	90 (66)	1800			
				18.9 (25)	2800	92 (68)	1800			
				36 (48)	2800	166 (122)	1600			
2.2	C2.2	4	T	45 (60)	2800	222 (164)	1600	DOC+DPF	C	Y
			TA	55 (74)	2800	270 (199)	1600			

## EU Stage V

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
2.8	C2.8	4	T	45 (60)	2200-2400	260 (192)	1600	DOC+DPF	C	
				55 (74)	2200-2400	265 (195)	1600			
				55 (74)	2200-2400	300 (221)	1600			
			TA	55 (74)	2200-2400	380 (280)	1380			
3.6	C3.6	4	TA	55 (74)	2200-2400	424 (313)	1200	DOC+DPF	C	
				70 (94)	2200-2400	450 (332)	1500	DOC+DPF+SCR		
				90 (121)	2000-2400	500 (369)	1500			
				95 (127)	2000-2400	530 (391)	1500			
				100 (134)	2000-2200	550 (406)	1500			
								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
4.4	C4.4	4	TA	82 (110)	2000-2200	560 (413)	1400	DOC+DPF+SCR	C	Y
				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	

## EU Stage V

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	129 (173)	1800-2200	842 (621)	1400	DOC+DPF+SCR	C	Y
				151 (202)	1800-2200	870 (642)	1400			
			TTA	151 (202)	1800-2200	983 (725)	1400			
				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		D	
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	

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			
				388 (520)	1800-2100	2381 (1756)	1400		D	
	C13B			340 (456)	1800-2100	2082 (1536)	1400		A	
				370 (496)	1800-2100	2266 (1671)	1400		B	
				400 (536)	1800-2100	2450 (1807)	1400		C	
				430 (577)	1800-2100	2634 (1943)	1400		D	
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	

## EU Stage V

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	

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
0.51	C0.5	2	NA	8.8 (11.8)	3000	30 (22)	2000	–	C	
0.76	C0.7	3	NA	8.8 (11.8)	2200	40 (30)	1800	–	C	
1.1	C1.1	3	NA	14.1 (18.9)	2200	61 (45)	2200	–	C	
				18.4 (25)	2800	65 (48)	2600			
				14.7 (19.7)	2200	67 (49)	2000			
				16.1 (22)	2400	67 (49)	2000			
				18.4 (25)	2800	67 (49)	2000			
			T	18.4 (25)	2400	90 (66)	1600			
1.5	C1.5	3	NA	18.4 (25)	2100	86 (63)	1800	–	C	

## 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
1.7	C1.7	3	NA	18.4 (25)	2200	92 (68)	1600	-	C	
				18.4 (25)	2800	85 (63)	1800			
			T	17.7 (24)	2200	100 (74)	1600			
				18.4 (25)	2200	94 (69)	1700			
				18.4 (25)	2800	90 (66)	1800			
				30 (40)	2800	125 (92)	1800	DOC		
				36 (48)	2800	166 (122)	1600	DOC+DPF	Y	
2.2	C2.2	4	T	36 (48)	2800	165 (122)	1800	DOC	C	Y
				45 (60)	2800	222 (164)	1600	DOC+DPF		
			TA	50 (67)	2800	208 (153)	1800	DOC		
				55 (74)	2800	270 (199)	1600	DOC+DPF		

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
2.8	C2.8	4	T	45 (60)	2200-2400	260 (192)	1600	DOC	C	
				45 (60)	2200-2400	260 (192)	1600	DOC+DPF		
				55 (74)	2200-2400	265 (195)	1600	DOC		
				55 (74)	2200-2400	265 (195)	1600	DOC+DPF		
				55 (74)	2200-2400	300 (221)	1600	DOC		
			55 (74)	2200-2400	300 (221)	1600	DOC+DPF			
TA	55 (74)	2200-2400	380 (280)	1380						
3.6	C3.6	4	TA	55 (74)	2200-2400	424 (313)	1200	DOC+DPF	C	
				70 (94)	2200-2400	450 (332)	1500	DOC+DPF+SCR		
				90 (121)	2000-2400	500 (369)	1500			
				95 (127)	2000-2400	530 (391)	1500			
				100 (134)	2000-2200	550 (406)	1500			
								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
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	
				388 (520)	1800-2100	2381 (1756)	1400		A	
	C13B			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		A	
				15.2	C15	6	TA		354 (475)	
354 (475)	1800 -2100	2174 (1604)	1400					C		
403 (540)	1800-2100	2469 (1821)	1400					D		
433 (581)	1800-2100	2655 (1958)	1400					A		

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	

## China Nonroad Stage III

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
1.5	C1.5	3	T	23 (31)	2200	112 (83)	1800	-	C	
				25 (34)	2400	112 (83)	1800			
				27 (36)	2600	112 (83)	1800			
				29 (39)	2800	112 (83)	1800			
				30 (40)	3000	112 (83)	1800			
2.2	C2.2	4	NA	31 (42)	2200	143 (105)	1800	-	C	Y
				34 (46)	2400	143 (105)	1800			
				36 (48)	2600	143 (105)	1800			
				37 (50)	2800	143 (105)	1800			
				38 (51)	3000	143 (105)	1800			
			T	32 (43)	2800	163 (120)	1800			
		36 (48)		2800	154 (114)	1800				

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	3054	4	T	75 (101)	2200	392 (289)	1400	-	C	Y		
			TA	83 (111)	2200	418 (308)	1400					
	C4.4		T	75 (101)	2200	420 (310)	1400			-	C	Y
			TA	75 (101)	2200	441 (325)	1400					
				82 (110)	2200	486 (358)	1400					
				87 (117)	2200	516 (381)	1400					
				97 (130)	2200	516 (381)	1400					
				106 (142)	2200	558 (412)	1400					
7	C7.1	6	TA	112 (150)	2200	672 (496)	1100	-	C	Y		
				117 (157)	2200	706 (521)	1400					
				129 (173)	2500	695 (513)	1400					
				168 (225)	2200	1028 (758)	1400					
				186 (249)	2200	1050 (774)	1400					
				205 (275)	2200	1050 (774)	1400					

## China Nonroad Stage III

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
8.8	C9	6	TA	205 (275)	1800-2200	1225 (904)	1400	-	A	Y
				224 (300)	1800-2200	1340 (988)	1400		B	
				242 (325)	1800-2200	1485 (1095)	1400		C	
				261 (350)	1800-2200	1557 (1148)	1400		D	
				280 (375)	1800-2200	1668 (1230)	1400			
9.3	C9.3B	6	TA	230 (308)	2200	1416 (1044)	1400	-	A	Y
				250 (335)	2200	1532 (1130)	1400		B	
				280 (375)	2200	1715 (1265)	1400		C	
				310 (416)	2200	1810 (1335)	1400			
11.1	C11	6	TA	242 (325)	1800-2100	1487 (1097)	1400	-	A	Y
				261 (350)	1800-2100	1596 (1177)	1400		B	
				287 (385)	1800-2100	1760 (1298)	1400		C	
				313 (420)	1800-2100	1919 (1415)	1400		D	
				336 (451)	1800-2100	2056 (1517)	1400		E	

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	-	A	Y
				310 (416)	1800-2100	1896 (1398)	1400		B	
				328 (440)	1800-2100	2011 (1483)	1400		C	
				354 (475)	1800-2100	2095 (1545)	1400		D	
				388 (520)	1800-2100	2215 (1634)	1400		E	
15.2	C15	6	TA	328 (440)	1800-2100	2012 (1484)	1400	-	A	Y
				354 (475)	1800-2100	2169 (1600)	1400		B	
				403 (540)	1800-2100	2468 (1820)	1400		C	
				433 (581)	1800-2100	2649 (1954)	1400		D	
				444 (595)	1800-2100	2717 (2004)	1400		E	

## China Nonroad Stage III

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	TTA	571 (766)	1800-2100	3495 (2578)	1400	-	D		
				597 (801)	1800-2100	3655 (2696)	1400		E		
			TA	429 (575)	1800-2100	2627 (1938)	1400		A		
				448 (601)	1800-2100	2742 (2022)	1400		B		Y
				470 (630)	1800-2100	2769 (2042)	1400		C		
27	C27	12	TA	597 (801)	1800-2100	3657 (2697)	1400	-	A	Y	
				653 (876)	1800-2100	4000 (2950)	1400		B		
				709 (951)	1800-2100	4326 (3191)	1400		C		
				783 (1050)	1800-2100	4798 (3539)	1400		D		
				858 (1151)	1800-2100	5255 (3876)	1400		E		
32	C32	12	TA	709 (951)	1800-2100	4338 (3200)	1400	-	B	Y	
				839 (1125)	1800-2100	5143 (3793)	1400		C		
				895 (1200)	1800-2100	5484 (4045)	1400		D		
				1007 (1350)	1800-2100	6166 (4548)	1400		E		



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
0.51	C0.5	2	NA	8.2 (11)	2800	30 (22)	2100	-	C	
				8.8 (11.8)	3000	30 (22)	2100			
				10.2 (13.7)	3600	30 (22)	2000			
0.76	C0.7	3	NA	13.2 (17.7)	3000	45 (33)	2200	-	C	
				15.3 (21)	3600	45 (33)	2200			
1.1	C1.1	3	NA	14.7 (19.7)	2200	67 (49)	1900	-	C	Y
				16.1 (22)	2200	67 (49)	2000			
				17.2 (23)	2600	68 (50)	1800			
				18.5 (25)	2800	68 (50)	1800			
				21 (28)	3400	70 (52)	2300			

## UN ECE R96 Stage IIIA or Below

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
1.5	C1.5	3	NA	21 (28)	2200	96 (71)	1800	-	C	Y
				22 (30)	2400	96 (71)	1800			
				23 (31)	2600	96 (71)	1800			
				24 (32)	2800	96 (71)	1800			
				25 (34)	3000	96 (71)	1800			
			T	23 (31)	2200	112 (83)	1800			
				25 (34)	2400	112 (83)	1800			
				27 (36)	2600	112 (83)	1800			
				29 (39)	2800	112 (83)	1800			
				30 (40)	3000	112 (83)	1800			
1.7	C1.7	3	NA	24 (32)	2400	105 (77)	1800	-	C	
				26 (35)	2600	106 (78)	1800			
				18.9 (25)	2800	87 (64)	1800			

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
2.2	C2.2	4	NA	31 (42)	2200	143 (105)	1800	-	C	Y
				34 (46)	2400	143 (105)	1800			
				36 (48)	2600	143 (105)	1800			
				37 (50)	2800	143 (105)	1800			
				38 (51)	3000	143 (105)	1800			
			T	32 (43)	2800	163 (120)	1800			
				36 (48)	2800	154 (114)	1800			
				43 (58)	2600	189 (139)	1800			
				45 (60)	2800	189 (139)	1800			
				46 (62)	3000	189 (139)	1800			
			TA	40 (54)	2800	170 (125)	1800			
				46 (62)	2800	195 (144)	1800			
				49 (66)	2800	208 (153)	1800			

## UN ECE R96 Stage IIIA or Below

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
2.8	C2.8	4	T	45 (60)	2200-2400	260 (192)	1600	-	C	
				55 (74)	2200-2400	265 (195)	1600			
				55 (74)	2200-2400	300 (221)	1600			
3.6	C3.6	4	TA	55 (74)	2200-2400	424 (313)	1200	-	C	
				70 (94)	2200-2400	450 (332)	1500			
				82 (110)	2000-2400	500 (369)	1500			
				86 (115)	2000-2400	500 (369)	1500			
				90 (121)	2000-2400	500 (369)	1500			

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	3054	4	TA	97 (130)	2200	500 (369)	1400	-	C	Y
			NA	56 (75)	2200	265 (195)	1700			
			T	75 (101)	2200	392 (289)	1400			Y
			TA	83 (111)	2200	418 (308)	1400			
	C4.4		T	75 (101)	2200	420 (310)	1400			
			TA	75 (101)	2200	441 (325)	1400			Y
				82 (110)	2200	486 (358)	1400			
				87 (117)	2200	516 (381)	1400			
				97 (130)	2200	516 (381)	1400			
				106 (142)	2200	558 (412)	1400			

## UN ECE R96 Stage IIIA or Below

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	112 (150)	1950	687 (507)	1200	-	C	Y
				129 (173)	2200	733 (541)	1400			
				162 (217)	2200	900 (664)	1400			
				112 (150)	2200	672 (496)	1100			
				117 (157)	2200	706 (521)	1400			
				129 (173)	2500	695 (513)	1400			
				168 (225)	2200	1028 (758)	1400			
				186 (249)	2200	1050 (774)	1400			
				205 (275)	2200	1050 (774)	1400			
8.8	C9	6	TA	205 (275)	1800-2200	1225 (904)	1400	-	A	Y
				224 (300)	1800-2200	1340 (988)	1400		B	
				242 (325)	1800-2200	1485 (1095)	1400		C	
				261 (350)	1800-2200	1557 (1148)	1400			
				280 (375)	1800-2200	1668 (1230)	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
9.3	C9.3B	6	TA	230 (308)	2200	1416 (1044)	1400	-	A	Y
				250 (335)	2200	1532 (1130)	1400		B	
				280 (375)	2200	1715 (1265)	1400		C	
				310 (416)	2200	1810 (1335)	1400			
11.1	C11	6	TA	242 (325)	1800-2100	1487 (1097)	1400	-	A	Y
				261 (350)	1800-2100	1596 (1177)	1400		B	
				287 (385)	1800-2100	1760 (1298)	1400		C	
				313 (420)	1800-2100	1919 (1415)	1400		D	
				336 (451)	1800-2100	2056 (1517)	1400		E	
12.5	C13	6	TA	287 (385)	1800-2100	1760 (1298)	1400	-	A	Y
				310 (416)	1800-2100	1896 (1398)	1400		B	
				328 (440)	1800-2100	2011 (1483)	1400		C	
				354 (475)	1800-2100	2095 (1545)	1400		D	
				388 (520)	1800-2100	2215 (1634)	1400		E	

## UN ECE R96 Stage IIIA or Below

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
14.6	3406C	6	TA	269 (361)	1800	1696 (1251)	1200	-	A	Y
				328 (440)	2000	1920 (1416)	1400		B	
				343 (460)	2100	1989 (1467)	1400		C	
				347 (465)	1800	2172 (1602)	1350		D	
15.2	C15	6	TA	328 (440)	1800-2100	2012 (1484)	1400	-	A	Y
				354 (475)	1800-2100	2169 (1600)	1400		B	
				403 (540)	1800-2100	2468 (1820)	1400		C	
				433 (581)	1800-2100	2649 (1954)	1400		D	
				444 (595)	1800-2100	2717 (2004)	1400		E	
18.1	C18	6	TTA	571 (766)	1800-2100	3495 (2578)	1400	-	D	Y
				597 (801)	1800-2100	3655 (2696)	1400		E	
			TA	429 (575)	1800-2100	2627 (1938)	1400		A	
				448 (601)	1800-2100	2742 (2022)	1400		B	
				470 (630)	1800-2100	2769 (2042)	1400		C	



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
27	C27	12	TA	597 (801)	1800-2100	3657 (2697)	1400	-	A	Y
				653 (876)	1800-2100	4000 (2950)	1400		B	
				709 (951)	1800-2100	4326 (3191)	1400		C	
				783 (1050)	1800-2100	4798 (3539)	1400		D	
				858 (1151)	1800-2100	5255 (3876)	1400		E	
	3412			465 (624)	1800	2757 (2034)	1300		A	
				540 (724)	2100	2971 (2191)	1400		C	
32	C32	12	TA	709 (951)	1800-2100	4338 (3200)	1400	-	B	Y
				839 (1125)	1800-2100	5143 (3793)	1400		C	
				895 (1200)	1800-2100	5484 (4045)	1400		D	
				1007 (1350)	1800-2100	6166 (4548)	1400		E	

## UN ECE R96 Stage IIIA or Below

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
34.5	3508	8	TA	470 (630)	1100	3794 (2798)	1100	-	A	
				507 (680)	1200	4156 (3065)	1000			
				578 (775)	1800	3180 (2346)	1400			
				637 (854)	1800	3585 (2644)	1400			
	3508B			746 (1000)	1800	4263 (3144)	1450		C	
				746 (1000)	1800	4353 (3211)	1450		A	
				783 (1050)	1800	4569 (3370)	1450		B	
				820 (1100)	1800	4353 (3211)	1450		C	

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
51.8	3512	12	TA	761 (1021)	1200	6188 (4564)	1400	-	A	
				858 (1151)	1300	6488 (4786)	1000		C	
				955 (1281)	1800	5114 (3772)	1400		A	
				1119 (1501)	1800	6210 (4580)	1400		C	
	3512B			1119 (1501)	1800	6526 (4814)	1450		A	
				1174 (1574)	1800	6854 (5056)	1450		B	
				1230 (1649)	1800	7180 (5296)	1450		C	
58.6	3512C	12	TA	1120 (1502)	1800	7130 (5259)	1500	-	A	
69	3516	16	TA	1011 (1356)	1200	8282 (6109)	1000	-	A	
				1242 (1666)	1300	9211 (6794)	1000		C	
				1275 (1710)	1800	7032 (5187)	1400		A	
				1492 (2001)	1800	8391 (6189)	1400		C	
78	3516C	16	TA	1566 (2100)	1750	10254 (7563)	1300	-	A	

## UN ECE R96 Stage IIIA or Below

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
110.8	3606	6	TA	1490 (1998)	750	19540 (14413)	615	-	A	
				1640 (2199)	750	21508 (15864)	615		C	
				1782 (2390)	900	19286 (14225)	720		A	
				1850 (2481)	1000	18200 (13424)	820			
				2150 (2883)	1000	21150 (15600)	820		C	
147.8	3608	8	TA	2088 (2800)	800	25670 (18934)	656	-	A	
				2300 (3084)	900	25136 (18540)	720			
				2574 (3452)	900	28950 (21354)	738		C	
				2460 (3299)	1000	24700 (18219)	820		A	
				2710 (3634)	1000	26660 (19664)	820		C	
221.7	3612	12	TA	2970 (3983)	750	38950 (28730)	675	-	A	

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
295.6	3612	12	TA	3135 (4204)	900	33729 (24879)	720	-	A	
				3460 (4640)	900	37810 (27889)	790			
				3800 (5096)	900	41530 (30633)	800		C	
				4252 (5702)	1000	41822 (30848)	800			
	3616	16		4050 (5431)	765	56061 (41351)	650		A	
				4600 (6169)	900	50270 (37079)	738			
				5060 (6785)	900	55300 (40789)	820		C	
				4920 (6598)	1000	48390 (35692)	820			
				5700 (7644)	1000	56900 (41969)	820		C	

## Basic Specifications

All of our engines are offered with a choice of factory configurable options. The weight and dimensions will depend on the final configuration selected to match your machine. The figures in this table are therefore indicative only, and do not include aftertreatment.

Model	Bore mm (in)	Stroke mm (in)	Length mm (in) Front of Crank Pulley to Rear Face of Flywheel Housing	Width mm (in)	Height mm (in)	Dry Weight kg (lbs)
C0.5	67 (2.6)	72 (2.8)	407 (16)	371 (14.6)	523 (20.6)	57 (126)
C0.7	67 (2.6)	72 (2.8)	480 (18.9)	371 (14.6)	528 (20.8)	71 (157)
C1.1	77 (3)	81 (3.2)	491 (19.3)	400 (15.7)	576 (22.7)	87 (192)
C1.5	84 (3.3)	90 (3.5)	572 (22.5)	541 (21.3)	643 (25.3)	156.5 (345)
C1.7	84 (3.3)	100 (3.9)	564 (22.2)	453 (17.8)	654 (25.7)	160 (353)
C2.2	84 (3.3)	100 (3.9)	662 (26.1)	489 (19.3)	698 (27.5)	194 (428)
C2.8	90 (3.5)	110 (4.3)	633.1 (24.9)	542.5 (21.4)	785.5 (30.9)	320 (706)
C3.6	98 (3.9)	120 (4.7)	667 (26.3)	564 (22.2)	787 (31)	372 (820)
3054	105 (4.1)	127 (5)	663 (26.1)	620 (24.4)	775 (30.5)	306 (675)
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>
C7.1	105 (4.1)	135 (5.3)	1074 (42.3)	721 (28.4)	824 (32.4)	704 (1552)
C9	112 (4.4)	149 (5.9)	1091 (43)	827 (32.6)	1023 (40.3)	864 (1905)
C9.3B	115 (4.5)	149 (5.9)	1125 (44.3)	791 (31.1)	1068 (42)	865 (1907)
C11	130 (5.1)	140 (5.5)	1203 (47.4)	1054 (41.5)	1186 (46.7)	1138 (2509)
C13B	130 (5.1)	157 (6.2)	1274 (50.2)	994 (39.1)	1134 (44.6)	1125 (2481)
3406C	137.2 (5.4)	165.1 (6.5)	1660 (65.4)	906 (35.7)	1335 (52.6)	1300 (2866)
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)
3412	137.2 (5.4)	152.4 (6)	1660 (65.4)	906 (35.7)	1335 (52.6)	1300 (2866)

## 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>
C32	145 (5.7)	162 (6.4)	1874 (73.8)	1600 (63)	1370 (53.9)	3004 (6624)
3508B	170 (6.7)	190 (7.5)	2136 (84.1)	1703 (67)	1720 (67.7)	4309 (9501)
3512	170 (6.7)	190 (7.5)	2676 (105)	1703 (67)	1720 (67.7)	6078 (13402)
3512B	170 (6.7)	190 (7.5)	3067 (121)	1785 (70.3)	1806 (71.1)	6078 (13402)
3512C	170 (6.7)	215 (8.5)	3067 (121)	1785 (70.3)	1806 (71.1)	6078 (13402)
3516	170 (6.7)	190 (7.5)	3366 (133)	1703 (67)	1720 (67.7)	7484 (16502)
3516C	170 (6.7)	215 (8.5)	3278 (129)	1530 (60.2)	2062 (81.2)	7840 (17287)
3606	280 (11)	300 (11.8)	3988 (157)	1748 (68.8)	2626 (103)	15680 (34574)
3608	280 (11)	300 (11.8)	4828 (190)	1748 (68.8)	2626 (103)	19000 (41895)
3612	280 (11)	300 (11.8)	4562 (180)	1704 (67.1)	3231 (127)	25140 (55434)



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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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