INDUSTRIAL ENGINE RATINGS GUIDE

EPA Tier 4 Interim
EU Stage IIIA
EU Stage IIIB

CAT®

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Diesel Engine Rating Definitions

Explanation of Ratings A, B, C, D, and E:
For an exact determination of the appropriate rating, contact your local Cat dealer. Engine rating obtained and presented in accordance with ISO3046/1.

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)
Intermittent service 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

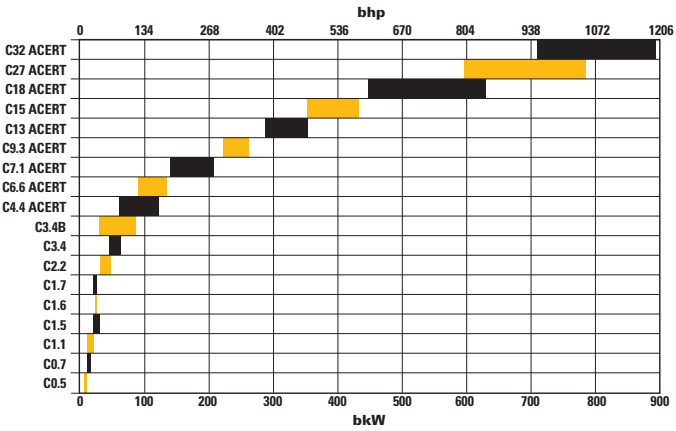
Diesel Engines — up to 7.1 liter
All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines — greater than 7.1 liter
All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.

ISO 9001:2000 Certification

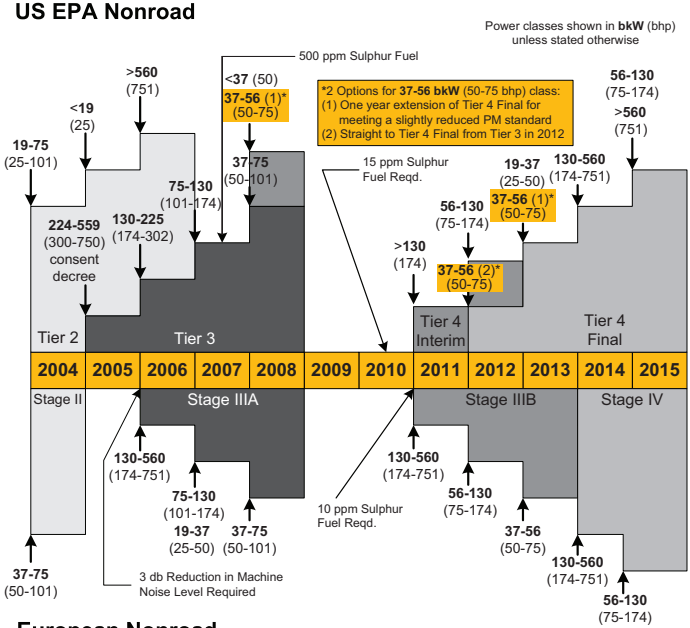
Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

Match a Reliable Cat Engine to Your Application



EPA & EU Non-Road Emissions Regulations

US EPA Nonroad



European Nonroad

Revised 24-Mar-2010

Industrial Engines

Reliability
- Industrial engines have been validated in a wide variety of machines and applications.
- Common design across engine platforms improves reliability at first production.
- Robust electronic control systems are proven to withstand severe conditions.
- Simple, efficient turbochargers deliver reliable performance.

Durability
- Core engine platforms deliver long life to overhaul.
- Engines are designed to be remanufactured.
- Next generation aftertreatment systems are built to withstand extreme conditions.

Fuel Efficiency
- Improved net engine fuel consumption over Tier 3, Stage IIIA engines
- Flexible regeneration options on applicable models maximize fuel efficiency.
- Legendary Caterpillar integration expertise optimizes machine performance for maximum efficiency.

Low-Cost of Ownership
- Value is cumulative over the entire working life of the engine.
- Precise measurement and control enables better fuel efficiency during regeneration.
- Poly-Vee belts extend service intervals.
- High resale value boosts return on investment.

Maximum Uptime
- Ease of service
  - Oil and filter change intervals are consistent with Tier 3/Stage IIIA engines.
  - Diesel Particulate Filters (DPF) offer flexible service options where ash cleaning is required.
- Ease of operation
  - Regeneration strategies designed to keep customers working
  - Electric priming pump improves convenience
  - Single-belt accessory drive

World-class Product Support
- Worldwide Cat dealer network, including the Cat ISD second level distributor program, helps extend engine life and reduce maintenance costs.
- Customer Service Agreements (CSA) and Extended Service Contracts (ESC) control costs and protect investment value.
- Remanufactured parts and high parts availability reduce cost and downtime.

Industrial Power Units

Flexibility
- Complete factory-installed power unit — plug and play
- Mandatory and optional attachments can include: radiator, air cleaner, alternator, A/C compressor, air compressor, muffler, clutch, control panel, engine base, CEM, CEM support structure.
- Flexible configurations
- Minimum or no engineering work for equipment manufacturers

Reliability
- Common design across engine platforms improves reliability at first production.
- Robust electronic control systems are proven to withstand severe conditions.
- Simple, efficient turbochargers deliver reliable performance.

Durability
- Core engine platforms deliver long life to overhaul.
- Engines are designed to be remanufactured.
- Next generation aftertreatment systems are built to withstand extreme conditions.

Fuel Efficiency
- Improved net engine fuel consumption
- Flexible regeneration options on applicable models maximize fuel efficiency.
- Legendary Caterpillar integration expertise optimizes machine performance for maximum efficiency.

Low-Cost of Ownership
- Value is cumulative over the entire working life of the power unit.
- Precise measurement and control enables better fuel efficiency during regeneration.
- High resale value boosts return on investment.

Maximum Uptime
- Ease of service
- Ease of operation

World-class Product Support
- Worldwide Cat dealer network, including the Cat ISD second level distributor program, helps extend power unit life and reduce maintenance costs.
- Customer Service Agreements (CSA) and Extended Service Contracts (ESC) control costs and protect investment value.
- Remanufactured parts and high parts availability reduce cost and downtime.

Aftertreatment

- Advanced NOx Reduction System (NRS) maximizes engine power and fuel efficiency while lowering combustion temperatures and reducing NOx emissions.
- Cat Regeneration System is designed to maximize machine uptime by providing excellent regeneration capability in a variety of environments, with precise measurement and control to reduce fuel burned during regeneration.
- Diesel Oxidation Catalyst (DOC) facilitates passive regeneration and requires no maintenance.
- Diesel Particulate Filter (DPF) reduces Particulate Matter (PM) with its wall-flow design.
- Flexible regeneration options on applicable models maximize fuel efficiency.

C0.5

Specifications

	C0.5	C0.7
Bore x Stroke	67 x 72 mm (2.6 x 2.8 in)	67 x 72 mm (2.6 x 2.8 in)
Displacement	0.5 liters (31.0 in^3)	0.76 liters (46.4 in^3)
Ship Weight	57 kg (126 lbs)	71 kg (156.5 lbs)
Approximate Dimensions:		
Length	407 mm (16.0 in)	480 mm (18.9 in)
Width	371 mm (14.6 in)	371 mm (14.6 in)
Height	523 mm (20.6 in)	528 mm (20.8 in)

C0.5 Ratings In-Line 2

C Rating (Intermittent)			
NA	**bkW**	**bhp**	**rpm**
	8.2	11.0	2800
	8.8	11.8	3000
	10.2	13.7	3600

C0.7 Ratings In-Line 3

C Rating (Intermittent)			
NA	**bkW**	**bhp**	**rpm**
	12.2	16.4	2800
	13.2	17.7	3000
	15.3	20.5	3600

Customer Value

- Compact package
- Exceptional power density
- Extensive choice of options
- Installation flexibility

Abbreviations used:
NA.....Naturally Aspirated

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim emission standards.

C1.1

Specifications

	C1.1
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)
Displacement	1.1 liters (69 in³)
Ship Weight	87 kg (191 lbs)
Approximate Dimensions:	
Length	491 mm (19.3 in)
Width	400 mm (15.7 in)
Height	576 mm (22.7 in)

C1.1 Ratings In-Line 3

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	Standard	Standard	
	14.7	19.7	2200*
	16.1	21.6	2400*
	17.2	23.0	2600*
	18.5	24.8	2800*
	19.7	26.4	3000
	21.0	28.2	3400
NA	Derate	Derate	
	13.7	18.4	2200
	16.8	22.5	2800
	17.7	23.7	3000

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.

*Rating conforms with EPA (U.S.) Tier 4 Interim emission standards.

C1.1

Specifications

	C1.1 Power Unit
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)
Displacement	1.1 liters (69 in³)
Ship Weight	129 kg (284 lbs)
Approximate Dimensions:	
Length	778 mm (30.6 in)
Width	438 mm (17.2 in)
Height	730 mm (28.7 in)

C1.1 Power Unit Ratings

In-Line 3

	C Rating (Intermittent)		
NA	**bkW**	**bhp**	**rpm**
	17.3	23.2	2800*
	18.1	24.3	3000*

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.

*Rating conforms with EPA (U.S.) Tier 4 Interim emission standards.

C1.5

Specifications

	C1.5	C1.5*
Bore x Stroke	84 x 90 mm (3.3 x 3.5 in)	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.496 liters (91 in^3)	1.496 liters (91 in^3)
Ship Weight	149 kg (328.5 lbs) **(NA)** 156.5 kg (345 lbs) **(T)**	169.5 kg (372.9 lbs) **(T)**
Approximate Dimensions:		
Length	572 mm (22.5 in) **(NA, T)**	642 mm (25.3 in) **(T)**
Width	453 mm (17.8 in) **(NA)** 512 mm (20.2 in) **(T)**	616 mm (24.3 in) **(T)**
Height	643 mm (25.3 in) **(NA, T)**	731 mm (28.8 in) **(T)**

C1.5 Ratings In-Line 3

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
NA		
20.9	28.0	2200
22.3	29.9	2400
23.4	31.4	2600
24.4	32.7	2800
25.1	33.7	3000
T		
23.1	31.0	2200
25.2	33.8	2400
27.3	36.6	2600
29.4	39.4	2800
30.0	40.2	3000

C1.5 Ratings* In-Line 3

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
T		
24.4	32.7	2800
25.1	33.7	3000
25.2	33.8	2400
27	36.2	2800

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated
T.....Turbocharged

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.

*Preliminary data. Rating designed to conform with 2013 EPA (U.S.) Tier 4 Final, EU Stage IIIA emission standards.

C1.5

Specifications

	C1.5 Power Unit
Bore x Stroke	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.496 liters (91 in^3)
Ship Weight	175 kg (385.8 lbs)
Approximate Dimensions:	
Length	820 mm (32.3 in)
Width	497 mm (19.6 in)
Height	793 mm (31.2 in)

C1.5 Power Unit Ratings

In-Line 3

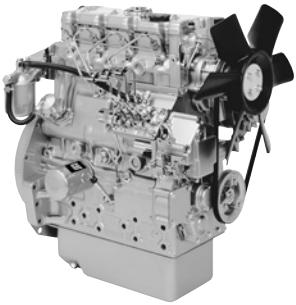
	C Rating (Intermittent)		
NA	**bkW**	**bhp**	**rpm**
	24.2	32.5	3000

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.



C1.6

Specifications

	C1.6	C1.7
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 100 mm (3.3 x 3.9 in)
Displacement	1.5 liters (92 in³)	1.66 liters (101 in³)
Ship Weight	106.8 kg (235.4 lbs)	160 kg (352.7 lbs)
Approximate Dimensions:		
Length	591 mm (23.3 in)	564 mm (22.2 in)
Width	420 mm (16.5 in)	453 mm (17.8 in)
Height	576 mm (22.7 in)	654 mm (25.7 in)

C1.6 Ratings In-Line 4

C Rating (Intermittent)			
bkW	**bhp**	**rpm**	
NA			
24.6	33.0	2800	
26.5	35.5	3000	

C1.7 Ratings In-Line 3

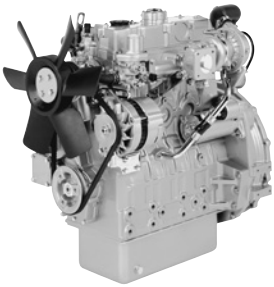
C Rating (Intermittent)			
bkW	**bhp**	**rpm**	
NA			
23.6	31.6	2400	
26.1	35.0	2600	

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.



C2.2

Specifications

	C2.2	C2.2*
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in^3)	2.2 liters (135 in^3)
Ship Weight	184 kg (406 lbs) **(NA)**	200 kg (440 lbs) **(NA)**
	194 kg (427.7 lbs) **(T, TA)**	210 kg (462 lbs) **(T)**
Approximate Dimensions:		
Length	661.5 mm (26 in) **(NA)**	727 mm (28.6 in) **(NA)**
	662 mm (26.1 in) **(T, TA)**	727 mm (28.6 in) **(T)**
Width	484 mm (18.3 in) **(NA)**	617 mm (24.3 in) **(NA)**
	489 mm (19.3 in) **(T, TA)**	635 mm (25 in) **(T)**
Height	676 mm (26.6 in) **(NA)**	772 mm (30.4 in) **(NA)**
	698 mm (27.5 in) **(T, TA)**	772 mm (30.4 in) **(T)**

C2.2 Ratings In-Line 4

	C Rating (Intermittent)		
	bkW	**bhp**	**rpm**
NA	**Standard**	**Standard**	
	31.0	41.6	2200
	34.1	45.7	2400
	35.7	47.9	2600
	37.3	50.0	2800
	38.0	51.0	3000
NA	**Derate**	**Derate**	
	31.4	42.1	2600
	32.8	43.9	2800
	34.0	45.6	3000
T	**Standard**	**Standard**	
	39.8	53.3	2600
	43.0	57.7	2600
	44.7	60.0	2800
	45.5	61.0	3000
T	**Derate**	**Derate**	
	36.3	48.7	2800
TA	**Standard**	**Standard**	
	49.3	66.1	2800

C2.2 Ratings* In-Line 4

	C Rating (Intermittent)		
	bkW	**bhp**	**rpm**
NA			
	31.4	42.1	2600
	34.1	45.7	2400
	35.4	47.5	2600
	35.7	47.9	2600
	36.4	48.8	2800-3000
T			
	36.4	48.8	2600-2800
	40.0	53.6	2600
	41.5	55.7	2600
	44.7	60.0	2800
	45.5	61.0	3000

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated
T.....Turbocharged
TA.....Turbocharged-Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.

*Preliminary data. Rating designed to conform with 2013 EPA (U.S.) Tier 4 Final, EU Stage IIIA emission standards.

C2.2

Specifications

	C2.2 Power Unit
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in^3)
Ship Weight	218 kg (480 lbs) **(NA)**
	228 kg (502 lbs) **(T)**
Approximate Dimensions:	
Length	946 mm (37.2 in) **(NA)**
	973 mm (38.3 in) **(T)**
Width	513 mm (20.2 in) **(NA)**
	590 mm (23.2 in) **(T)**
Height	854 mm (33.6 in) **(NA)**
	973 mm (38.3 in) **(T)**

C2.2 Power Unit Ratings In-Line 4

	C Rating (Intermittent)		
NA	**bkW**	**bhp**	**rpm**
	37	49.6	3000
T			
	41.7	55.9	2800

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated
T.....Turbocharged

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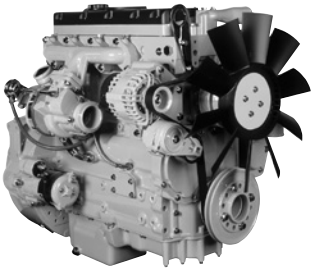


C3.4

Specifications

	C3.4
Bore x Stroke	94 x 120 mm (3.7 x 4.72 in)
Displacement	3.3 liters (201 in^3)
Ship Weight	245 kg (540 lbs) **(NA)**
	265 kg (584 lbs) **(T)**
Approximate Dimensions:	
Length	781 mm (30.7 in) **(NA)**
	784 mm (30.9 in) **(T)**
Width	590 mm (23.2 in) **High Turbo**
	649 mm (25.5 in) **Low Turbo**
Height	722 mm (28.4 in) **(NA)**
	821.3 mm (32.3 in) **(T)**

C3.4 Ratings In-Line 4

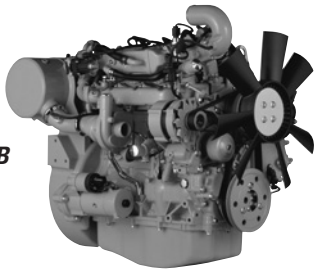
	C Rating (Intermittent)		
	bkW	**bhp**	**rpm**
NA			
	47	63	2500
T			
	55	73.7	2500

Customer Value

- Compact package
- Exceptional power density
- Broad application range
- Low operating costs maintained
- Single-side servicing for ease of maintenance and simplified servicing routine

Abbreviations used:
NA.....Naturally Aspirated **TA**.....Turbocharged-Aftercooled
T.....Turbocharged

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIA emission standards.



C3.4B

Specifications

	C3.4B
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in^3)
Ship Weight	275 kg (606.3 lbs) **(T)**
	270 kg (595.2 lbs) **(TA)**

Approximate Dimensions:

	Top Turbo	Side Turbo
Length	747.5 mm (29.4 in)	747.5 mm (29.4 in)
Width	660 mm (25.98 in)	662 mm (26.0 in)
Height	830 mm (32.7 in)	822 mm (32.4 in)

C3.4B Ratings In-Line 4

C Rating (Intermittent)			D Rating		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
T					
45.0	60.3	2200*	—	—	—
47.0	63.0	2500*	—	—	—
50.0	67.0	2200*	—	—	—
55.4	74.3	2200 & 2500*	—	—	—
TA (ATAAC)					
63.0	84.5	2200	—	—	—
66.0	88.5	2200 & 2500	—	—	—
70.0	94.0	2200	—	—	—
75.0	100.6	2200 & 2500	—	—	—
—	—	—	83.0	111.3	2200
—	—	—	86.0	115.3	2500

Customer Value

- Compact package
- Extensive choice of options
- Installation flexibility
- Twin PTO capability
- Engine or machine mounted aftertreatment
- Service-free top end for reduced maintenance
- Poly-Vee belts for 3000 hour service intervals

Abbreviations used:
T.....Turbocharged
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards

*Rating designed to conform with 2013 EPA (U.S.) Tier 4 Final, EU Stage IIIB emission standards.

C3.4B

Specifications

	C3.4B
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in^3)
Ship Weight	359 kg (791.5 lbs)

Approximate Dimensions:

	Top-Mounted Aftertreatment	Rear-Mounted Aftertreatment
Length	1252 mm (49.3 in)	1242 mm (48.9 in)
Width	705 mm (27.7 in)	705 mm (27.7 in)
Height	1033 mm (40.7 in)	957 mm (37.6 in)

C3.4B Power Unit Ratings In-Line 4

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
TA (ATAAC)		
66.0	88.5	2200
75.0	100.6	2200

Customer Value

- Compact package
- Extensive choice of options
- Installation flexibility
- Twin PTO capability
- Engine or machine mounted aftertreatment
- Service-free top end for reduced maintenance
- Poly-Vee belts for 3000 hour service intervals

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards

Wall-Flow DPF

Configurations

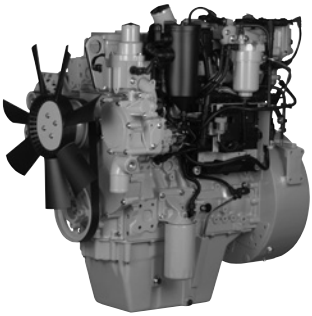
C3.4B		
Approximate Dimensions:		
	Wall-Flow DPF	**Through-Flow DPF**
	45-86 bkW (60.3-115.3 bhp)	**45-55.4 bkW (60.3-74.3 bhp)**
Length	541 mm (21.3 in)	509 mm (20 in)
Diameter	180 mm (7.1 in)	149 mm (5.8 in)
Weight	20 kg (44 lbs)	14 kg (30.8 lbs)

Customer Value

- Incorporating passive regeneration with dosing back-up
- Extensive range of inlets and outlets, as well as remote and on-engine installations, provide flexibility for many installations.
- Keeping your machines operating without any work cycle interruption

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- Flex pipe connection kit with straight and 90° options for flexibility



C4.4 ACERT

Specifications

	C4.4 ACERT
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (268.5 in^3)
Ship Weight	400-450 kg (881.8-992.0 lbs)
Approximate Dimensions:	
Length	845.1 mm (33.3 in) **(TA, TTA)**
Width	772.4 mm (30.4 in) **(TA)**
	741.6 mm (29.1 in) **(TTA)**
Height	848.2 mm (33.4 in) **(TA)**
	867.6 mm (34.1 in) **(TTA)**

C4.4 ACERT Ratings In-Line 4

B Rating			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)					
65.9	88.4	2200	61.5	82.5	2200
70.0	93.9	2200	74.5	100.0	2200
85.9	115.2	2200	82.0	110.0	2200
—	—	—	98.0	131.4	2200
92.5	124.0	2200	102.1	137.0	2200
—	—	—	106.0	142.1	2200
—	—	—	110.1	147.6	2200
TTA (ATAAC)					
105.1	141.0	2200	117.0	157.0	2200
112.0	150.0	2200	129.4	173.5	2200

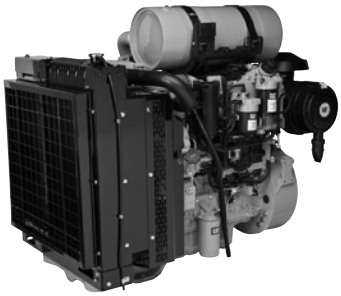
Customer Value

- Increased power and torque over Tier 3/Stage IIIA engine
- Compact package
- Extensive choice of options
- Installation flexibility
- Non-modular aftertreatment
- Maintenance-free valve adjustment
- Poly-Vee belts for longer service intervals
- Two-stage turbocharger with smart wastegate available on some ratings for increased performance

Abbreviations used:
TA.....Turbocharged-Aftercooled
TTA.....Twin Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

C4.4 ACERT



Specifications

	C4.4 ACERT
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (268.5 in^3)
Ship Weight	650 kg (1433 lbs) **(TA)**
	700 kg (1543 lbs) **(TTA)**
Approximate Dimensions:	
Length	1433 mm (56.4 in) **(TA, TTA)**
Width	820 mm (32.3 in) **(TA)**
	795 mm (31.3 in) **(TTA)**
Height	1126 mm (44.3 in) < 82 bkW (110 bhp) **(TA)**
	1150 mm (45.3 in) > 82 bkW (110 bhp) **(TA)**
	1150 mm (45.3 in) **(TTA)**

C4.4 ACERT Power Unit Ratings In-Line 4

B Rating			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)					
—	—	—	74.5	100	2200
—	—	—	82	110	2200
92.5	124	2200	102.1	137	2200
—	—	—	110	148	2200
TTA (ATAAC)					
—	—	—	117	157	2200
—	—	—	129.4	173.5	2200

Customer Value

- Engine-mounted DPF
- Hydraulic tappet adjustment
- Can be factory-installed with or without DPF
- Sound improvement over Tier 3/Stage IIIA power unit
- Increased power
- Single turbocharger and series turbocharger options
- Service-free DPF

Abbreviations used:
TA.....Turbocharged-Aftercooled
TTA.....Twin Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

Configurations

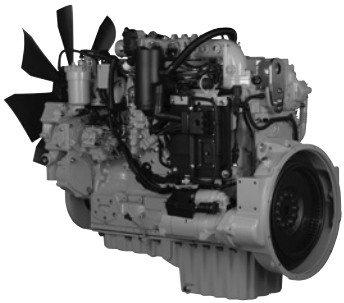
	C4.4 ACERT ≤82 bkW (110 bhp)	>82 bkW (110 bhp)
Approximate Dimensions:		
Length	802.5 mm (32.6 in)	828 mm (32.6 in)
Width	365 mm (14.3 in)	365 mm (14.3 in)
Height	279 mm (11 in)	300.5 mm (11.8 in)
Weight	34 kg (75 lbs)	37 kg (81.6 lbs)
Diameter	244.9 mm (9.6 in)	270.3 mm (10.6 in)

Customer Value

- Passive regeneration completely transparent to the operator
- Extensive range of inlets and outlets, as well as remote and on-engine installations, provide flexibility for many installations.
- Service-free DPF for the emissions life of the engine
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility



C6.6 ACERT

Specifications

	C6.6 ACERT
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	6.6 liters (402.8 in³)
Ship Weight	695 kg (1532 lbs)
Approximate Dimensions:	
Length	1063.7 mm (41.9 in)
Width	753 mm (29.6 in)
Height	907 mm (35.7 in)

C6.6 ACERT Ratings In -Line 6

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
TA (ATAAC)		
89.0	119.3	2200
116.5	156.2	2200
129.4	173.5	2200

Customer Value

- Compact package
- Extensive choice of options
- Installation flexibility
- Non-modular aftertreatment
- Maintenance-free valve adjustment
- Poly-Vee belts for longer service intervals
- Common rail fuel system
- Similar connection points to Tier 3/Stage IIIA engine

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

Configurations

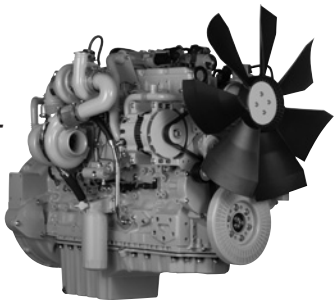
	C6.6 ACERT
Approximate Dimensions:	
Length	852.7 mm (33.6 in)
Width	364.6 mm (14.35 in)
Height	352 mm (13.9 in)
Weight	40 kg (88.1 lbs)
Diameter	283 mm (11.1 in)

Customer Value

- Passive regeneration completely transparent to the operator
- Extensive range of inlets and outlets, as well as remote and on-engine installations, provide flexibility for many installations.
- Service-free aftertreatment for the emissions life of the engine
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility



C7.1 ACERT

Specifications

	C7.1 ACERT
Bore x Stroke	105 x 135 mm (4.1 x 5.3 in)
Displacement	7.0 liters (427.7 in³)
Ship Weight	715 kg (1576 lbs)
Approximate Dimensions:	
Length	1063.7 mm (41.9 in)
Width	820.2 mm (32.3 in)
Height	907 mm (35.7 in)

C7.1 ACERT Ratings In-Line 6

B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
140.0	187.7	2200	186.5	250.1	2200	225.0	301.7	2200
151.0	202.5	2200	205.0	274.9	2200	—	—	—
158.5	212.5	2200	—	—	—	—	—	—
168.0	225.3	2200	—	—	—	—	—	—
176.5	236.7	2200	—	—	—	—	—	—

Customer Value

- Compact package
- Extensive choice of options
- Modular aftertreatment
- Maintenance-free valve adjustment
- Poly-Vee belts for longer service intervals
- Series turbochargers with smart wastegate available on all ratings for increased performance
- Common rail fuel system
- Similar connection points to Tier 3/Stage IIIA engine

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

C7.1 ACERT

Specifications

	C7.1 ACERT Power Unit
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.0 liters (427.7 in³)
Ship Weight	1200 kg (2645.5 lbs)
Approximate Dimensions:	
Length	1750 mm (68.9 in)
Width	900 mm (35.4 in)
Height	1214 mm (47.8 in)

C7.1 ACERT Power Unit Ratings In-Line 6

B Rating			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)					
151	202	1800-2200	186	250	1800-2200
168	225	1800-2200	205	275	1800-2200

Customer Value

- Base CEM mounted above engine
- Hydraulic tappet adjustment
- Can be factory-installed with or without base CEM
- Sound improvement over Tier 3/Stage IIIA power unit
- Improved mounting points
- Series turbocharger with smart wastegate

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

Configurations

	≤ 172 bkW (231 bhp)
	C7.1 ACERT (Base Configuration)
Approximate Dimensions:	
Length	918.7 mm (36.2 in)
Width	714.4 mm (28.1 in)
Height	618.5 mm (24.3 in)
Weight	124 kg (273.4 lbs)
Diameter	287 mm (11.3 in)
	> 172 bkW (231 bhp)
	C7.1 ACERT (Base Configuration)
Approximate Dimensions:	
Length	918.7 mm (36.2 in)
Width	714.4 mm (28.1 in)
Height	643.9 mm (25.3 in)
Weight	134 kg (295.4 lbs)
Diameter	337.8 mm (13.3 in)

Note: Final dimensions dependent on configuration

Options

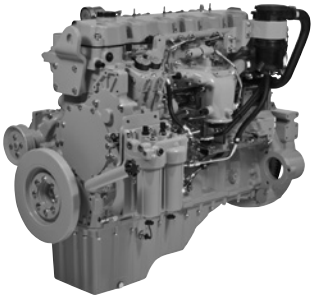
- **CEM Options Include:**
  Base Aftertreatment Package (DPF/DOC)
- **Multiple Customizable Configuration Options Available:**
  Each option will be available as:
  – 250 mm (10 in) Cat Regeneration System + DOC/DPF [≤172 bkW (231 bhp)]
  – 304.8 mm (12 in) Cat Regeneration System + DOC/DPF

Customer Value

- Flexible regen options maximize uptime
- Cat Regeneration System maximizes fuel efficiency during regeneration
- Remote installation options provide OEM flexibility for many applications
- Minimum 4500-hour diesel particulate filter ash service interval
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module
- Cat Regeneration System
- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System
- 3” flex pipe connection kit with straight and 90° options for flexibility



C9.3 ACERT

Specifications

	9.3 ACERT
Bore x Stroke	115 x 149 mm (4.53 x 5.87 in)
Displacement	9.3 liters (567.5 in^3)
Ship Weight	885 kg (1950 lbs)
Approximate Dimensions:	
Length	1150 mm (45.3 in)
Width	827 mm (32.6 in)
Height	1123 mm (44.2 in)

C9.3 ACERT Ratings In-Line 6

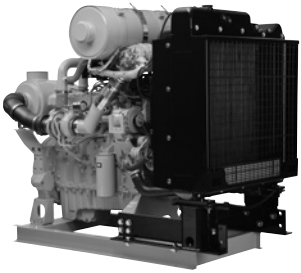
A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)								
224	300	1800-2200	242	325	1800-2200	261	350	1800-2200

Customer Value

- Engine size similar to Tier 3, Stage IIIA engine
- Increased displacement — 9.3 L
- Increased power density
- Similar connection points to Tier 3, Stage IIIA engine
- Electric priming pump for faster, easier priming
- Enhanced electronic features
- Common Rail fuel system
- Simple, efficient turbocharger for increased performance

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.



C9.3 ACERT

Specifications

	C9.3 ACERT Power Unit
Bore x Stroke	115 x 149 mm (4.53 x 5.87 in)
Displacement	9.3 liters (567.5 in³)
Ship Weight	1839 kg (4055 lbs)
Approximate Dimensions:	
Length	1845 mm (72.6 in)
Width	1118 mm (44.0 in)
Height	1554 mm (61.2 in)

C9.3 ACERT Power Unit Ratings In-Line 6

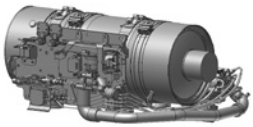
A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)								
224	300	1800-2200	242	325	1800-2200	261	350	1800-2200

Customer Value

- Can be factory-installed with or without radiator
- Can be factory-installed with or without base CEM
- Available for a wide range of ratings
- Factory-validated for high vibration applications

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.



Configurations

C9.3 ACERT (Base Configuration)	
Approximate Dimensions:	
Length	1097 mm (43 in)
Width	762 mm (30 in)
Height	468 mm (18 in)
Weight	130 kg (287 lbs)
Diameter	304.8 mm (12 in)

Multiple customizable configuration options available

CEM Options

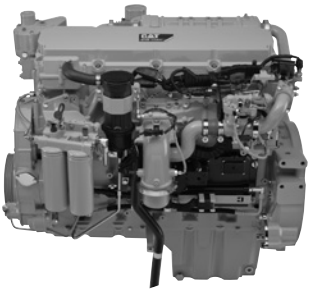
- Base configuration includes DPF, DOC, and supporting structure
- Standard configuration includes DPF, DOC, muffler, and supporting structure
- Optional air filter can be attached to CEM standard configuration

Customer Value

- Cat Regeneration System maximizes fuel efficiency during regeneration
- Flexible regen options maximize uptime
  Flex pipe connection kit with 90° rotatable elbows to attach to Cat Regeneration System Inlet
- Remote installation options provide OEM flexibility for many applications, including horizontal and vertical mounting, with and without muffler
- Minimum 4500-hour diesel particulate filter ash service interval
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module
- Cat Regeneration System
- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System



C13 ACERT

Specifications

	C13 ACERT
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (762.8 in^3)
Ship Weight	1350 kg (2976 lbs)
Approximate Dimensions:	
Length	1203 mm (47.2 in)
Width	933.1 mm (36.7 in)
Height	1186 mm (46.7 in)

C13 ACERT Ratings In-Line 6

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating			E Rating		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)														
287	385	1800-2100	309	415	1800-2100	328	440	1800-2100	354	475	1800-2100	388	520	1800-2100

Customer Value

- Engine size similar to Tier 3, Stage IIIA engine
- Similar connection points to Tier 3, Stage IIIA engine
- Electric priming pump for faster, easier priming
- Enhanced electronic features
- Improved MEUI-C fuel system
- Simple, efficient turbocharger for increased performance

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

C13 ACERT

Specifications

	C13 ACERT Power Unit
Bore x Stroke	130 x 157 mm (5.1 x 6.18 in)
Displacement	12.5 liters (762.8 in^3)
Ship Weight	2304 kg (5080 lbs)
Approximate Dimensions:	
Length	2085 mm (82.1 in)
Width	1157 mm (45.6 in)
Height	1573 mm (61.3 in)

C13 ACERT Power Unit Ratings In-Line 6

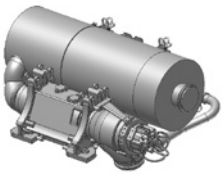
A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating			E Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)														
287	385	1800-2100	309	415	1800-2100	328	440	1800-2100	354	475	1800-2100	388	520	1800-2100

Customer Value

- Can be factory-installed with or without radiator
- Can be factory-installed with or without base or standard CEM
- Available for a wide range of ratings
- Factory-validated for high vibration applications

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.



Configurations

C13 ACERT (Base Configuration)	
Approximate Dimensions:	
Length	1097 mm (43 in)
Width	762 mm (30 in)
Height	468 mm (18 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

Multiple customizable configuration options available

CEM Options

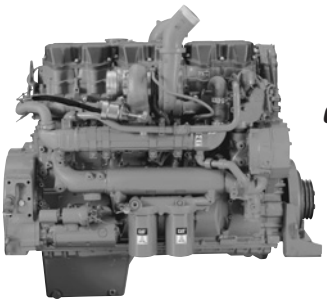
- Base configuration includes DPF, DOC, and supporting structure
- Standard configuration includes DPF, DOC, muffler, and supporting structure
- Optional air filter can be attached to CEM standard configuration. This option is also available shipped loose for customer-provided mounting.

Customer Value

- Cat Regeneration System maximizes fuel efficiency during regeneration
- Flexible regen options maximize uptime
  Flex pipe connection kit with 90° rotatable elbows to attach to Cat Regeneration System Inlet
- Remote installation options provide OEM flexibility for many applications, including horizontal and vertical mounting, with and without muffler
- Minimum 4500-hour diesel particulate filter ash service interval
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module
- Cat Regeneration System
- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System



C15 ACERT

Specifications

	C15 ACERT
Bore x Stroke	137 x 171 mm (5.4 x 6.73 in)
Displacement	15.2 liters (927.6 in³)
Ship Weight	1666 kg (3673 lbs)
Approximate Dimensions:	
Length	1438 mm (56.6 in)
Width	943 mm (37.1 in)
Height	1239 mm (48.8 in)

C15 ACERT Ratings In-Line 6

A Rating* (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)											
354	475	1800-2100	354	475	1800-2100	403	540	1800-2100	433	580	1800-2100

*Altitude-limited

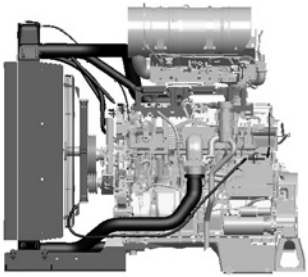
Customer Value

- Engine size similar to Tier 3, Stage IIIA engine
- Similar connection points to Tier 3, Stage IIIA engine
- Electric priming pump for faster, easier priming
- Enhanced electronic features
- Improved MEUI-C fuel system
- Simple, efficient turbocharger for increased performance

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

C15 ACERT



Specifications

	C15 ACERT Power Unit
Bore x Stroke	137 x 171 mm (5.39 x 6.73 in)
Displacement	15.2 liters (927.6 in^3)
Ship Weight	2113 kg (4658 lbs)
Approximate Dimensions:	
Length	2172 mm (85.5 in)
Width	1180 mm (46.5 in)
Height	1912 mm (75.3 in)

C15 ACERT Power Unit Ratings In-Line 6

A Rating* (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)											
354	475	1800-2100	354	475	1800-2100	403	540	1800-2100	433	580	1800-2100

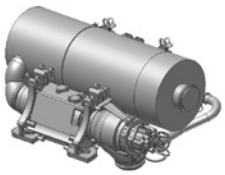
*Altitude-limited

Customer Value

- Can be factory-installed with or without radiator
- Can be factory-installed with or without base CEM
- Available for a wide range of ratings
- Factory-validated for high vibration applications

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.



Configurations

C15 ACERT (Base Configuration)	
Approximate Dimensions:	
Length	1097 mm (43 in)
Width	762 mm (30 in)
Height	468 mm (18 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

Multiple customizable configuration options available

CEM Options

- Base configuration includes DPF, DOC, and supporting structure
- Standard configuration includes DPF, DOC, muffler, and supporting structure
- Optional air filter can be attached to CEM standard configuration. This option is also available shipped loose for customer-provided mounting.

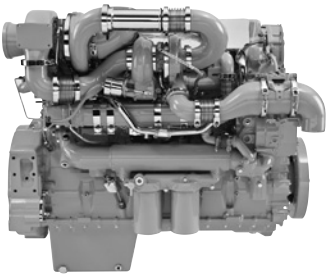
Customer Value

- Cat Regeneration System maximizes fuel efficiency during regeneration
- Flexible regen options maximize uptime
  Flex pipe connection kit with 90° rotatable elbows to attach to Cat Regeneration System Inlet
- Remote installation options provide OEM flexibility for many applications, including horizontal and vertical mounting, with and without muffler
- Minimum 4500-hour diesel particulate filter ash service interval
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module
- Cat Regeneration System
- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System

C18 ACERT



Specifications

	C18 ACERT
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.5 in³)
Ship Weight	1666 kg (3673 lbs) (≤ 522 bkW/700 bhp) 1717 kg (3785 lbs) (> 522 bkW/700 bhp)

	C18 ACERT *≤ 522 bkW (700 bhp)*	*> 522 bkW (700 bhp)*
Approximate Dimensions:		
Length	1438 mm (56.6 in)	1438 mm (56.6 in)
Width	943 mm (37.1 in)	1024 mm (40.3 in)
Height	1239 mm (48.8 in)	1356 mm (53.4 in)

	563-597 bkW (755-800 bhp)
Approximate Dimensions:	
Length	1438 mm (56.6 in)
Width	1132 mm (44.6 in)
Height	1356 mm (53.4 in)

C18 ACERT Ratings In-Line 6

A Rating* (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)											
447	600	1800-1900	447	600	1800-1900	470	630	1800-1900	—	—	—
TTA (ATAAC)											
—	—	—	—	—	—	522	700	1800-1900	597	800	1800-1900**
—	—	—	—	—	—	563	755	1800-1900**	—	—	—

*Altitude-limited

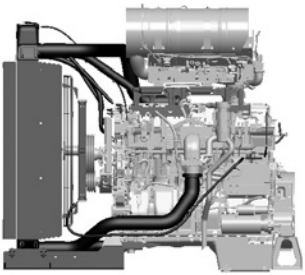
Customer Value

- Engine size similar to Tier 3, Stage IIIA engine
- Similar connection points to Tier 3, Stage IIIA engine
- Electric priming pump for faster, easier priming
- Enhanced electronic features
- Improved MEUI-C fuel system
- Simple, efficient turbocharger (<522 bkW, 700 bhp) and series turbocharger (≥522 bkW, 700 bhp) for increased performance

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.

**Rating conforms with EPA (U.S.) Tier 4 Interim (563 bkW/755 bhp @ 1800-1900 rpm) and Tier 4 Final emission standards (563 bkW/755 bhp @1800 rpm, 597 bkW/800 bhp @ 1800 rpm).



C18 ACERT

Specifications

	C18 ACERT Power Unit
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.5 in³)
Ship Weight	2113 kg (4658 lbs)
Approximate Dimensions:	
Length	2172 mm (85.5 in)
Width	1180 mm (46.5 in)
Height	1912 mm (75.3 in)

C18 ACERT Power Unit Ratings In-Line 6

A Rating* (Continuous)			B Rating			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)								
447	600	1800-1900	447	600	1800-1900	470	630	1800-1900

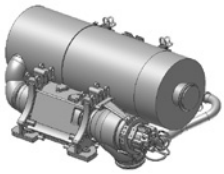
*Altitude-limited

Customer Value

- Can be factory-installed with or without radiator
- Can be factory-installed with or without base CEM
- Available for a wide range of ratings
- Factory-validated for high vibration applications
- Factory-installed radiator also available for 522 bkW/700 bhp, 563 bkW/755 bhp, and 597 bkW/800 bhp ratings

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim, EU Stage IIIB emission standards.



Configurations

C18 ACERT (Base Configuration)	
Approximate Dimensions:	
Length	1097 mm (43 in)
Width	762 mm (30 in)
Height	468 mm (18 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

Multiple customizable configuration options available

CEM Options

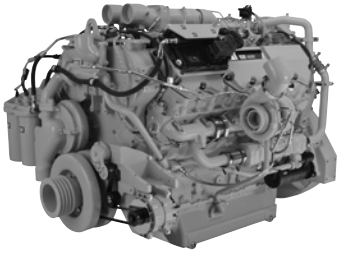
- Base configuration includes DPF, DOC, and supporting structure
- Standard configuration includes DPF, DOC, muffler, and supporting structure
- Optional air filter can be attached to CEM standard configuration. This option is also available shipped loose for customer-provided mounting.

Customer Value

- Cat Regeneration System maximizes fuel efficiency during regeneration
- Flexible regen options maximize uptime
  Flex pipe connection kit with 90° rotatable elbows to attach to Cat Regeneration System Inlet
- Remote installation options provide OEM flexibility for many applications, including horizontal and vertical mounting, with and without muffler
- Minimum 4500-hour diesel particulate filter ash service interval
- Available in 12V or 24V systems

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module
- Cat Regeneration System
- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System



C32 ACERT

Specifications

	C27 ACERT	C32 ACERT
Bore x Stroke	137.2 x 152.4 mm (5.4 x 6.0 in)	145.0 x 162 mm (5.71 x 6.38 in)
Displacement	27 liters (1649.5 in³)	32.1 liters (1959 in³)
Ship Weight	3004 kg (6625 lbs)	3004 kg (6625 lbs)
Approximate Dimensions:		
Length	1874 mm (73.8 in)	1874 mm (73.8 in)
Width	1600 mm (63.0 in)	1600 mm (63.0 in)
Height	1370 mm (53.9 in)	1370 mm (53.9 in)

C27 ACERT Ratings V-12

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)											
597	800	1800-2100	653	875	1800-2100	709	950	1800-2100	783	1050	1800-2100

C32 ACERT Ratings V-12

B Rating			C Rating			D Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)								
709	950	1800-2100	839	1125	1800-2100	895	1200	1800-2100

Customer Value

- Engine size similar to Tier 2 engine
- Similar connection points to Tier 2 engine
- Electric priming pump for faster, easier priming
- Enhanced electronic features
- Improved MEUI-C fuel system
- Simple, efficient side-mounted turbochargers for increased performance

Abbreviations used:
TA.....Turbocharged-Aftercooled
ATAAC.....Air-to-Air Aftercooled

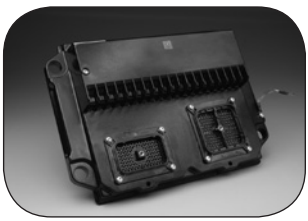
Unless noted, ratings conform with EPA (U.S.) Tier 4 Interim emission standards.

ACERT™ Technology

- A series of evolutionary, incremental improvements resulting in breakthrough engine technology
- Built on proven Cat systems and components
- Minimizes emissions through better control of the combustion process

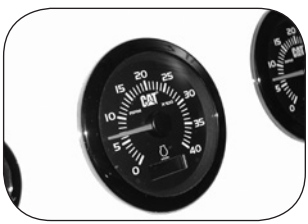
Electronic Control Unit (ECU)

- Electronic engine control unit
- Precise fuel control
- Smarter controller
- Password protected
- Customized engine speed
- Controls idle levels
- Precise injection timing



Analog Gauge

- 12V and 24V systems
- Liquid Crystal Display: engine hours/ diagnostic codes
- 2 LED indicators
- 2- or 3-inch diameter dial
- Thread nut mount installed
- Integral 6-pin Deutsch connector
- Displays engine speed, fuel rate, load percent, pressures, and temperatures



Control and Display Panels

Engine Monitoring System Display

- Parameters from engine
- Audible alarm, diagnostic windows
- SAE standard icons
- -40˚C to +85˚C

Mini Industrial Panel Display (MIPD)

- 15 user-defined screens
- Max 10 parameters per screen
- 8 displays on same J1939 network
- Multiple language compatibility
- Multiple custom screen options

For additional information visit www.catelectronics.com

Additional Literature

Cat C4.4, C4.4 ACERT, and C6.6 ACERT Engines
Superior Performance and Beyond LEDH6529
Industrial Engine Attachments Guide LEDH6161
Industrial Power Systems Fueled by Innovation LEDH4624
Irrigation Engine Ratings Guide. LEDH5378
Commercial Diesel Engine Fluids Recommendations. SEBU6251

Spec Sheets

C0.5 Industrial Engine – 8.2-10.2 bkW (11.0-13.7 bhp). LEHH6352
C0.7 Industrial Engine – 12.2-15.3 bkW (16.4-20.5 bhp). LEHH6361
C1.1 Industrial Engine – 9.5 bkW (12.7 bhp) /
11.8 bkW (15.8 bhp) / 19.7 bkW (26.4 bhp). LEHH6351
C1.1 Industrial Engine – 21 bkW (28 bhp) LEHH6350
C1.1 Industrial Engine – 13.7-21 bkW (18.4-28.2 bhp) LEHH6353
C1.1 Industrial Power Unit – 17.9 bkW (24.0 bhp) LEHH6362
C1.5 Industrial Engine – 20.9-25.1 bkW (28.0-33.7 bhp) LEHH6354
C1.5 Industrial Engine – 23.1-30.0 bkW (31.0-40.2 bhp). LEHH6411
C1.5 Industrial Power Unit – 24.2 bkW (32.5 bhp) LEHH6355
C1.6 Industrial Engine – 24.6 & 26.5 bkW (33 & 33.5 bhp) LEHH6349
C1.7 Industrial Engine – 23.6 & 26.1 bkW (31.6 & 35.0 bhp) LEHH6412
C2.2 Industrial Engine – 31.0-38.0 bkW (41.6-51.0 bhp) LEHH6356
C2.2 Industrial Engine – 40.0-45.5 bkW (53.6-61.0 bhp) LEHH6360
C2.2 (NA) Power Unit for Irrigation & Pump Application –
32.3 bkW (43.3 bhp) LEHH0018
C2.2 (T) Power Unit for Irrigation & Pump Application –
38 bkW (51 bhp) LEHH0019
C2.2 Industrial Engine – 49.2 bkW (66.0 bhp) LEHH6410
C2.2 Industrial Power Unit – 37.0 bkW (49.6 bhp) LEHH8103
C2.2 Industrial Power Unit – 41.7 bkW (55.9 bhp) LEHH8104
C3.4 Industrial Engine – 47 bkW (63 bhp) LEHH6415
C3.4 Industrial Engine – 55 & 62 bkW (73.7 & 83 bhp). LEHH6414
C3.4B Industrial Engine – 45-55.4 bkW (60.3-74.3 bhp). LEHH0514
C3.4B Industrial Engine – 62-86 bkW (83.1-115.3 bhp) LEHH0504
C3.4B Industrial Power Unit – 66-74.5 bkW (88-100 bhp) LEHH0527
C4.4 ACERT Industrial Engine – 61.5-129.4 bkW (81.8-173.5 bhp) . .LEHH0021
C6.6 ACERT Industrial Engine – 89-129.5 bkW (119.4-173.7 bhp). . .LEHH0022
C7.1 ACERT Industrial Engine – 130-225 bkW (175-300 bhp) LEHH0006
C9.3 ACERT Industrial Engine – 224-261 bkW (300-350 bhp) LEHH0007
C9.3 ACERT Industrial Power Unit – 224-261 bkW (300-350 bhp) . .LEHH0509
C13 ACERT Industrial Engine – 287-354 bkW (385-475 bhp). LEHH0008
C13 ACERT Industrial Power Unit – 287-354 bkW (385-475 bhp). . .LEHH0510
C15 ACERT Industrial Engine – 354-433 bkW (475-580 bhp). LEHH0009
C15 ACERT Industrial Power Unit – 354-433 bkW (475-580 bhp). . .LEHH0511
C18 ACERT Industrial Engine – 447-522 bkW (600-700 bhp). LEHH0010
C18 ACERT Industrial Engine – 563 bkW (755 bhp) LEHH0513
C18 ACERT Industrial Engine – 563-597 bkW
(755-800 bhp) Tier 4 Final LEHH0506
C18 ACERT Industrial Power Unit – 447-470 bkW (600-630 bhp). . .LEHH0512
C27 ACERT Industrial Engine – 597-783 bkW (800-1050 bhp). LEHH0011
C32 ACERT Industrial Engine – 709-895 bkW (950-1200 bhp). LEHH0013

Notes

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