

INDUSTRIAL ENGINE RATINGS GUIDE

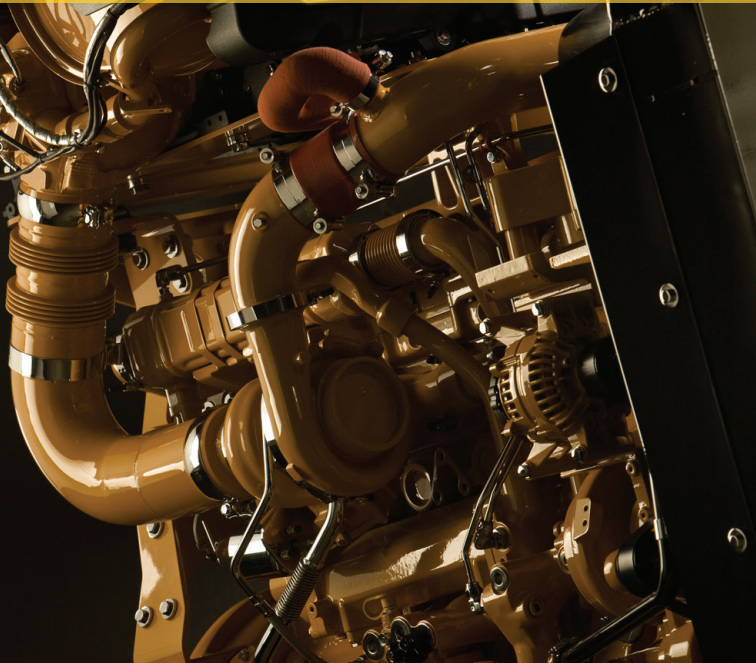


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Highly Regulated/Lesser Regulated

For purposes of this Guide, “Highly Regulated” refers to engines that meet stringent emission standards in effect in the U.S., Canada, the EU, and Japan. (Please contact your local dealer or account representative for specific Japan certifications). “Lesser Regulated” refers to engines that are available for other regulated and non-regulated areas.

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Highly Regulated

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Cat[®] Engines

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 6.6 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 specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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.

Cleaner Fuel and Oils

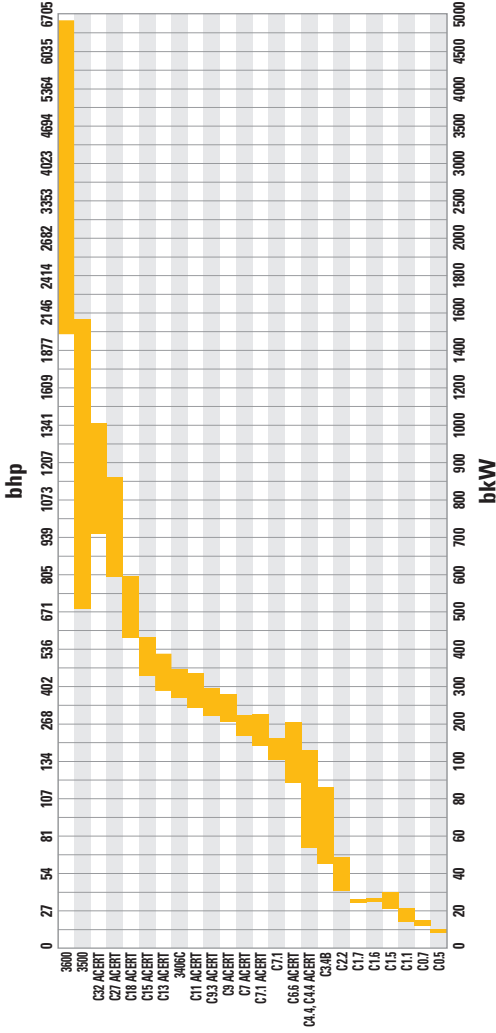
All nonroad U.S. EPA Tier 4 Interim and Final, European Union (EU) Stage IIIB and IV, and Japan 2011 and 2014 (Tier 4 Interim and Final) diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) EPA/10 ppm (mg/kg) EU sulfur or less.

Abbreviations

ATAAC	Air-to-Air Aftercooled
bhp	brake horsepower
bkW	brake kilowatts
CAT	standard (stoichiometric) engine Catalyst rating
CEM	Clean Emissions Module
DEF	Diesel Exhaust Fluid
DOC	Diesel Oxidation Catalyst
DPF	Diesel Particulate Filter
ECU	Electronic Control Unit
FIE	Fuel Injection Equipment
JWAC	Jacket Water Aftercooled
LE	Low Emission
NA	Naturally Aspirated
NRS	NO _x Reduction System
NSPS	New Source Performance Standard
PC	Precombustion Chamber
PETU	Pump Electronic Tank Unit
SCAC	Separate Circuit Aftercooled
SCR	Selective Catalytic Reduction
SI	Spark Ignited
SI NSPS	Spark Ignited New Source Performance Standard
STD	Standard (stoichiometric) engine highest power rating
T	Turbocharged
TA	Turbocharged-Aftercooled
TTA	Twin Turbo Aftercooled

Cat® Engines

Match a Cat Engine to Your Application



Customer Value

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.
- Electronic control systems are proven to withstand severe conditions.
- Simple, efficient turbochargers deliver top performance.

Durability

- Core engine platforms deliver long life to overhaul.
- Engines are designed to be remanufactured.
- Aftertreatment systems for highly regulated models are built to withstand extreme conditions.

Fluid Efficiency

- Improved net engine fluid consumption
- Flexible regeneration options on applicable highly regulated models maximize fluid efficiency.
- Caterpillar integration expertise optimizes engine 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 fluid 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 across the product line.
 - Diesel Particulate Filters (DPF) for highly regulated models offer flexible service options where ash cleaning is required.
- Ease of operation
 - Regeneration strategies for highly regulated models are designed to keep customers working
 - Electric priming pump improves convenience
 - Single-belt accessory drive

World-class Product Support

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

Customer Value

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.
- Electronic control systems are proven to withstand severe conditions.
- Simple, efficient turbochargers deliver top performance.

Durability

- Core engine platforms deliver long life to overhaul.
- Engines are designed to be remanufactured.
- Aftertreatment systems for highly regulated models are built to withstand extreme conditions.

Fluid Efficiency

- Improved net engine fluid consumption
- Flexible regeneration options on applicable highly regulated models maximize fluid efficiency.
- Caterpillar integration expertise optimizes engine 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 fluid 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 Coverage (ESC) control costs and protect investment value.
- Remanufactured parts and high parts availability reduce cost and downtime.

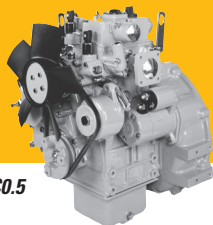
Customer Value

Aftertreatment for Highly Regulated Models

- Advanced NOx Reduction System (NRS) maximizes engine power and fluid efficiency while lowering combustion temperatures and reducing NOx emissions.
- Cat Regeneration System is designed to maximize equipment uptime by providing excellent regeneration capability in a variety of environments, with precise measurement and control to reduce fluid 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 or through-flow design.
- Flexible regeneration options on applicable models maximize fluid efficiency.
- Pump Electronic Tank Unit (PETU) is available in different volume configurations.
- Up to 5 percent net improvement in fluid efficiency for U.S. EPA Tier 4 Final, EU Stage IV over U.S. EPA Tier 4 Interim, EU Stage IIIB (including DEF consumption)

C0.5 | C0.7

ENGINES



C0.5

Specifications

	C0.5	C0.7 U.S. EPA Tier 4 Final
Engine Configuration ...	In-Line 2, Diesel	In-Line 3, Diesel
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

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

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

C0.7 Ratings

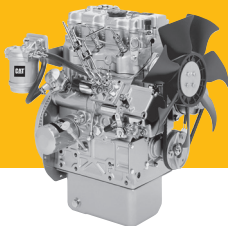
NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	12.2	16.4	2800
	13.2	17.7	3000
	15.3	20.5	3600

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

C0.7 U.S. EPA Tier 4 Final Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	8.8	11.8	2200

U.S. EPA Tier 4 Final Nonroad emission standards. Nonroad engines less than 19 bkW (25 bhp) are not currently subject to EU emission standards.



C1.1 ENGINE

Specifications

U.S. EPA Tier 4 Final

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)
Displacement	1.1 liters (69 in ³)
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

NA	C Rating (Intermittent)		rpm
	bkW Standard	bhp Standard	
	14.7	19.7	2200
	16.1	21.6	2400
	17.3	23.2	2600
	18.4	24.7	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

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

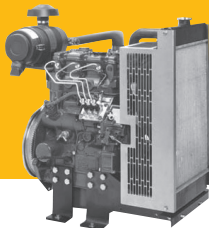
C1.1 U.S. EPA Tier 4 Final Ratings

NA	C Rating (Intermittent)		rpm
	bkW	bhp	
	14.4	19.3	2200
	18.4	24.7	2800

U.S. EPA Tier 4 Final Nonroad emission standards. Nonroad engines less than 19 bkW (25 bhp) are not currently subject to EU emission standards.

C1.1

POWER UNIT



Specifications

	U.S. EPA Tier 4 Final
Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)
Displacement	1.1 liters (69 in ³)
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 U.S. EPA Tier 4 Final Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	14.4	19.3	2200

C1.1 Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	19.7	26.4	3000

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

U.S. EPA Tier 4 Final Nonroad emission standards. Nonroad engines less than 19 bkW (25 bhp) are not currently subject to EU emission standards.

C1.5 ENGINE



Specifications

U.S. EPA Tier 4 Final, EU Stage IIIA

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.496 liters (91 in ³)
Ship Weight	149 kg (328.5 lbs) (NA) 156.5 kg (345 lbs) (T)

Approximate Dimensions:

Length	572 mm (22.5 in) (NA, T)
Width	453 mm (17.8 in) (NA) 512 mm (20.2 in) (T)
Height	643 mm (25.3 in) (NA, T)

U.S. EPA Tier 4 Final Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA			
	18.4	24.7	2100*
T			
	18.4	24.7	1800*
	25.2	33.8	2400
	27.0	36.2	2800
	27.6	37.0	3000

*Special application

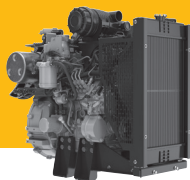
EU Stage IIIA Ratings

	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

U.S. EPA Tier 4 Final, EU Stage IIIA Nonroad emission standards.

C1.5

POWER UNIT



Specifications

	U.S. EPA Tier 4 Final, EU Stage IIIA
Engine Configuration . . .	In-Line 3, Diesel
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)

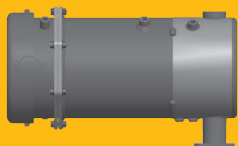
U.S. EPA Tier 4 Final Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
T	27.0	36.0	2800

EU Stage IIIA Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	25.1	33.7	3000

U.S. EPA Tier 4 Final, EU Stage IIIA Nonroad emission standards



C1.5

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Final
> 19 kW (25 bhp)

Approximate Dimensions:

Length 449 mm (17.6 in)

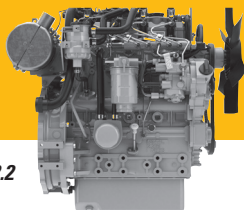
Weight 13 kg (28.7 lbs)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter with range of outlet options
- Passive regeneration system with backup

C1.7 | C2.2

ENGINES



C2.2

Specifications

	C1.7 (Electronic) U.S. EPA Tier 4 Final, EU Stage IIIB	C2.2 (Electronic) U.S. EPA Tier 4 Final, EU Stage IIIB
Engine Configuration ...	In-Line 3, Diesel	In-Line 4, Diesel
Bore x Stroke	84 x 90 mm (3.3 x 3.5 in)	84 x 100 mm (3.3 x 3.9 in)
Displacement	1.66 liters (101 in ³)	2.2 liters (135 in ³)
Ship Weight	190 kg (419 lbs)	230 kg (507 lbs)
Approximate Dimensions:		
Length	640 mm (25.2 in)	723 mm (28.4 in)
Width	545 mm (21.4 in)	545 mm (21.5 in)
Height	736 mm (28.9 in)	736 mm (28.9 in)

C1.7 U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	30	40.2	2800

C2.2 U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

T*	C Rating (Intermittent)		
	bkW	bhp	rpm
	36.4	48.8	2800
TA	50	67.1	2800

*U.S. EPA Tier 4 Final only

U.S. EPA Tier 4 Final, EU Stage IIIB Nonroad emission standards

C1.7 | C2.2

AFTERTREATMENT

Specifications

	C1.7 U.S. EPA Tier 4 Final	C2.2 U.S. EPA Tier 4 Final EU Stage IIIB*
Approximate Dimensions:		
Length	408.4 mm (16.07 in)	408.4 mm (16.07 in)
Weight	5.8 kg (12.79 lbs).....	5.8 kg (12.79 lbs)
Diameter	155 mm (6.10 in).....	155 mm (6.1 in)

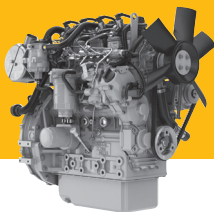
*C2.2 (T) – U.S. EPA Tier 4 Final only

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst

C2.2

ENGINE



Specifications

U.S. EPA Tier 4 Final, EU Stage IIIB

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in ³)
Ship Weight	230 kg (507 lbs) (NA, T)

Approximate Dimensions:

Length	764 mm (30.07 in) (T, TA)
Width	545 mm (21.46 in) (NA, T)
Height	736 mm (28.98 in) (NA, T)

U.S. EPA Tier 4 Final Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA			
	35.4	47.5	2600
	35.7	47.9	2600
T			
	36.4	48.8	2800
TA			
	50.0	67.0	2800

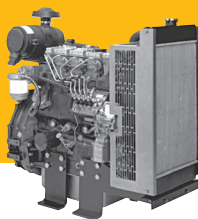
EU Stage IIIB Ratings

	C Rating (Intermittent)		
	bkW Standard	bhp Standard	rpm
T			
	36.4	48.8	2800
	40.0	53.6	2600
	41.5	55.7	2600
	44.7	60.0	2800
	45.5	61.0	3000
TA			
	50.0	67.0	2800

U.S. EPA Tier 4 Final, EU Stage IIIA, or EU Stage IIIB Nonroad emission standards

C2.2

POWER UNIT



Specifications

**U.S. EPA Tier 4 Final,
EU Stage IIIA, EU Stage IIIB**

Engine Configuration . . .	In-Line 4, Diesel
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)

U.S. EPA Tier 4 Final Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	36.4	48.8	3000

U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
T	44.7	59.9	2800
	45.5	61.0	3000

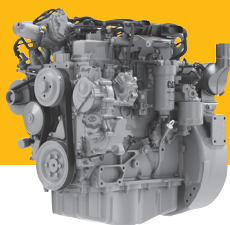
EU Stage IIIA Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	36.3	48.7	2800

U.S. EPA Tier 4 Final, EU Stage IIIA, or EU Stage IIIB Nonroad emission standards

C3.4B

ENGINE



Specifications

	U.S. EPA Tier 4 Final, EU Stage IIIB < 56 bkW (75 bhp)
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in ³)
Ship Weight	251 kg (553.4 lbs) (T)
Approximate Dimensions:	
Length	610 mm (24 in)
Width	662 mm (26.1 in)
Height	822 mm (32.4 in)

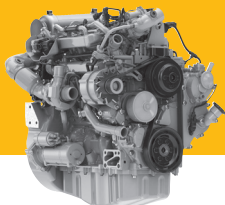
U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

T	bkW	C Rating (Intermittent)	
		bhp	rpm
	45.0	60.3	2200
	47.0	63.0	2500
	50.0	67.0	2200
	55.4	74.3	2200 & 2500

U.S. EPA Tier 4 Final, EU Stage IIIB Nonroad emission standards

C3.4B

ENGINE



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV > 56 bkW (75 bhp)	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent > 56 bkW (75 bhp)
Engine Configuration . . .	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in) . . .	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in ³)	3.4 liters (207.5 in ³)
Ship Weight	251 kg (553.4 lbs)	251 kg (553.4 lbs)
Approximate Dimensions:		
Length	610 mm (24 in)	610 mm (24 in)
Width	662 mm (26.1 in)	662 mm (26.1 in)
Height	822 mm (32.4 in)	822 mm (32.4 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	63.0	84.5	2200	83.0	111.3	2200
	66.0	88.5	2500	86.0	115.3	2500
	70.0	94.0	2200	90.0	120.7	2200
	75.0	100.6	2200 & 2500	—	—	—

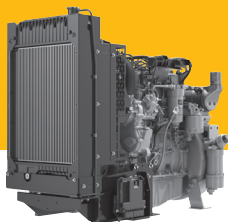
U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

TA	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	63.0	84.5	2200	83.0	111.3	2200
	66.0	88.5	2200 & 2500	86.0	115.3	2500
	70.0	94.0	2200	—	—	—
	75.0	100.6	2200 & 2500	—	—	—

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C3.4B

POWER UNIT



Specifications

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent > 56 bkW (75 bhp)

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent > 56 bkW (75 bhp)
Engine Configuration . . .	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in) . . .	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in ³)	3.4 liters (207.5 in ³)
Ship Weight	407 kg (897 lbs)	359 kg (791.5 lbs)

Approximate Dimensions:

	Rear-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)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA**	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	75.0	100.6	2200	86.0	115.0	2200

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

TA**	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	66.0	88.5	2200	86.0	115.0	2500
	75.0	100.6	2200	—	—	—

*U.S. EPA Tier 4 Final, EU Stage IIIB Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

**U.S. EPA Tier 4 Final, EU Stage IIIB Nonroad emission standards.

C3.4B**AFTERTREATMENT****Wall-Flow****Through-Flow****Specifications**

U.S. EPA Tier 4 Final, EU Stage IIIB
< 56 bkW (75 bhp)

Approximate Dimensions:

	Wall-Flow DPF	Through-Flow DPF
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)

Standard Emissions Control Equipment

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

U.S. EPA Tier 4 Final, EU Stage IV
> 56 bkW (75 bhp)

Approximate Dimensions:

	DOC	SCR
Length	320 mm (12.6 in)	520 mm (20.47 in)
Diameter	196 mm (7.7 in)	251 mm (9.88 in)
Weight	15 kg (33 lbs)	20 kg (44 lbs)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **SCR:** Selective Catalytic Reduction

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent,
> 56 bkW (75 bhp)

Approximate Dimensions:

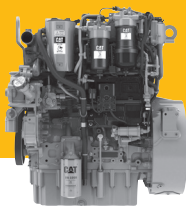
	Wall-Flow DPF
Length	541 mm (21.3 in)
Diameter	180 mm (7.1 in)
Weight	20 kg (44 lbs)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter

C4.4 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in.)	105 x 127 mm (4.1 x 5.0 in.)
Displacement	4.4 liters (268.5 in ³)	4.4 liters (268.5 in ³)
Ship Weight	400 kg (881.8 lbs) (TA)	400 kg (881.8 lbs) (TA)
	420 kg (926 lbs) (TTA)	420 kg (926 lbs) (TTA)
Approximate Dimensions:		
Length	845.1 mm (33.3 in) (TA, TTA)	845.1 mm (33.3 in) (TA, TTA)
Width	772.4 mm (30.4 in) (TA)	772.4 mm (30.4 in) (TA)
	741.6 mm (29.1 in) (TTA)	741.6 mm (29.1 in) (TTA)
Height	848.2 mm (33.4 in) (TA)	848.2 mm (33.4 in) (TA)
	867.6 mm (34.1 in) (TTA)	867.6 mm (34.1 in) (TTA)

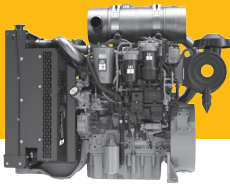
U.S. EPA Tier 4 Final, EU Stage IV Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA						
	85.9	115.2	2200	70.0	93.9	2200
	91.0	122.0	2200	74.4	99.8	2200
	92.6	124.2	2200	82.0	109.9	2200
	—	—	—	97.9	131.3	2200
	—	—	—	102.1	136.9	2200
	—	—	—	106.0	142.1	2200
	—	—	—	110.1	147.6	2200
TTA						
	105.0	140.8	2200	117.0	156.9	2200
	112.0	150.0	2200	129.4	173.5	2200

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA						
	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
	92.6	124.0	2200	98.0	131.4	2200
	—	—	—	102.1	137.0	2200
	—	—	—	106.0	142.1	2200
	—	—	—	110.1	147.6	2200
TTA						
	105.1	141.0	2200	117.0	157.0	2200
	112.0	150.0	2200	129.4	173.5	2200

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.



C4.4 ACERT

POWER UNIT

Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (268.5 in ³)	4.4 liters (268.5 in ³)
Ship Weight	670 kg (1477 lbs) (TA) 700 kg (1543 lbs) (TTA)	650 kg (1433 lbs) (TA) 700 kg (1543 lbs) (TTA)
Approximate Dimensions:		
Length	1433 mm (56.4 in) (TA, TTA) 1455 mm (57.3 in) (TTA)	1433 mm (56.4 in) (TA)
Width	820 mm (32.3 in) (TA) 870 mm (34.3 in) (TTA)	820 mm (32.3 in) (TA) 795 mm (31.3 in) (TTA)
Height	1210 mm (47.6 in) < 93 bkW (125 bhp) (TA) 1215 mm (47.8 in) 102.1-110 bkW (134-148 bhp) (TA) 1280 mm (50.4 in) (TTA)	1126 mm (44.3 in) < 82 bkW (110 bhp) (TA) 1150 mm (45.3 in) > 82 bkW (110 bhp) (TA) 1212 mm (47.7 in) (TTA)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	92.6	124.2	2200	74.5	100.0	2200
	—	—	—	82.0	110.0	2200
				102.1	137.0	2200
	—	—	—	110.0	148.0	2200
TTA	—	—	—	117.0	157.0	2200
	—	—	—	129.4	173.5	2200

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	92.6	124	2200	74.5	100.0	2200
	—	—	—	82.0	110.0	2200
	—	—	—	102.1	137.0	2200
	—	—	—	110.0	148.0	2200
TTA	—	—	—	117.0	157.0	2200
	—	—	—	129.4	173.5	2200

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C4.4 ACERT

AFTERTREATMENT



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV ≤ 92.6 kW (124.2 bhp) DOC/SCR	U.S. EPA Tier 4 Final, EU Stage IV > 92.6 kW (124.2 bhp) DOC/SCR	U.S. EPA Tier 4 Final, EU Stage IV DPF/SCR (TTA only)
Approximate Dimensions:			
Length	647 mm (25.5 in)	675 mm (25.6 in)	722 mm (28.4 in)
Width	538 mm (21.18 in)	565 mm (22.2 in)	695 mm (27.4 in)
Height	335 mm (13.19 in)	355 mm (13.97 in)	430 mm (16.9 in)
Weight	40 kg (88 lbs)	45 kg (99 lbs)	80 kg (176.4 lbs)

Standard Emissions Control Equipment

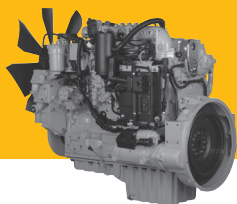
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **SCR:** Selective Catalytic Reduction
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Specifications

	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent ≤ 82 kW (110 bhp)	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent > 82 kW (110 bhp)
Approximate Dimensions:		
Length	802.5 mm (31.6 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)

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

ENGINE

Specifications

	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	6.6 liters (402.8 in ³)
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)

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

U.S. EPA Tier 4 Interim Nonroad equivalent and EU Stage IIIB Nonroad equivalent ratings available using U.S. EPA and EU Flex provisions.

C6.6 ACERT

AFTERTREATMENT



Specifications

U.S. EPA Tier 4 Interim Equivalent,
EU Stage IIIB Equivalent

Approximate Dimensions:

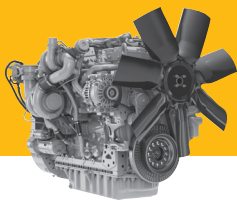
Length	852.7 mm (33.6 in)
Width	364.6 mm (14.35 in)
Height	352 mm (13.9 in)
Weight	40 kg (88.1 lbs)
Diameter	283 mm (11.1 in)

Standard Emissions Control Equipment

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

C7.1 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration ...	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.1 x 5.3 in)	105 x 135 mm (4.1 x 5.3 in)
Displacement	7.0 liters (427.7 in ³)	7.0 liters (427.7 in ³)
Ship Weight	715 kg (1576 lbs)	715 kg (1576 lbs)
Approximate Dimensions:		
Length	1063.7 mm (41.9 in) (TTA)	1063.7 mm (41.9 in) (TA, TTA)
Width	753 mm (29.6 in) (TA) 820.2 mm (32.3 in) (TTA)	820.2 mm (32.3 in) (TTA)
Height	907 mm (35.7 in) (TTA)	907 mm (35.7 in) (TA, TTA)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	116.0	156.0	2200	151.0	202.0	1800-2200
	129.0	173.0	2200	—	—	—
TTA (ATAAC)						
	151.0	202.0	2200	186.0	249.0	1800-2200
	168.0	225.0	2200	205.0	275.0	1800-2200
	—	—	—	225.0	301.7	1800-2200

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C7.1 ACERT

POWER UNIT



Specifications

**U.S. EPA Tier 4 Final,
EU Stage IV**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.0 liters (427.7 in ³)
Ship Weight	1000 kg (2204.0 lbs)

Approximate Dimensions:

Length	1461 mm (57.5 in)
Width	1769 mm (69.6 in)
Height	916 mm (36.1 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TTA (ATAAC)						
	151.0	202.0	1800-2200	186.0	250.0	1800-2200
	168.0	225.0	1800-2200	205.0	275.0	1800-2200
				225.0	301.7	1800-2200

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards



C7.1 ACERT

AFTERTREATMENT

Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	PETU Configuration
Approximate Dimensions:		
Length.....	771 mm (30.4 in)	610 mm (24 in)
Width.....	793 mm (31.2 in)	459 mm (18 in)
Height.....	468 mm (18.4 in)	280 mm (11 in)

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Specifications

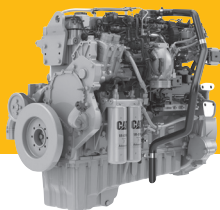
	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent ≤ 172 kW (231 bhp)	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent ≥ 172 kW (231 bhp)
Approximate Dimensions:		
Length.....	918.7 mm (36.2 in)	918.7 mm (36.2 in)
Width.....	714.4 mm (28.1 in)	714.4 mm (28.1 in)
Height.....	618.5 mm (24.3 in)	643.9 mm (25.3 in)
Weight.....	124 kg (273.4 lbs)	134 kg (295.4 lbs)
Diameter.....	287 mm (11.3 in)	337.8 mm (13.3 in)

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

C9.3 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	115 x 149 mm (4.53 x 5.87 in) .	115 x 149 mm (4.53 x 5.87 in)
Displacement	9.3 liters (567.5 in ³)	9.3 liters (567.5 in ³)
Ship Weight	885 kg (1950 lbs)	885 kg (1950 lbs)
Approximate Dimensions:		
Length	1134 mm (45 in)	1125 mm (44 in)
Width	1025 mm (40 in)	917 mm (36 in)
Height	1072 mm (42 in)	1127 mm (44 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	224	300	1800- 2200	242	325	1800- 2200	261	350	1800- 2200	290	389	1800- 2200
—	—	—	—	—	—	—	—	—	298	400	2000	

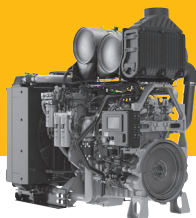
U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C9.3 ACERT

POWER UNIT



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	115 x 149 mm (4.53 x 5.87 in) . . .	115 x 149 mm (4.53 x 5.87 in)
Displacement	9.3 liters (567.5 in ³)	9.3 liters (567.5 in ³)
Ship Weight	1678 kg (3699 lbs)	1839 kg (4055 lbs)
Approximate Dimensions:		
Length	2042 mm (80.4 in)	1845 mm (72.6 in)
Width	1094 mm (43.1 in)	1118 mm (44.0 in)
Height	1741 mm (68.5 in)	1554 mm (61.2 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	224	300	1800- 2200	242	325	1800- 2200	261	350	1800- 2200	290	389	1800- 2200
	—	—	—	—	—	—	—	—	—	298	400	2000

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C9.3 ACERT

AFTERTREATMENT



Specifications

U.S. EPA Tier 4 Final, EU Stage IV

	Standard Configuration	PETU Configuration* up to 99 L (104.6 U.S. qt)
Approximate Dimensions:		
Length	924 mm (36 in)	854 mm (33.6 in)
Width	867 mm (34 in)	287 mm (11.3 in)
Height	570 mm (22 in)	551 mm (21.7 in)
Weight	210-213 kg (463-470 lbs)*	19.42 kg (42.8 lbs)

*Depending on configuration. Multiple customizable configuration options available.

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

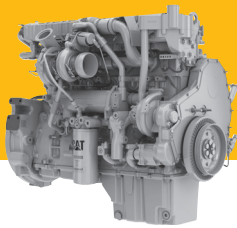
Specifications

	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Approximate Dimensions:	
Length	924 mm (36 in)
Width	867 mm (34 in)
Height	392 mm (15.5 in)
Weight	130 kg (287 lbs)
Diameter	305 mm (12 in)

Multiple customizable configuration options available.

Standard Emissions Control Equipment

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



C13 ACERT

ENGINE

Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in) . . .	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (762.8 in ³)	12.5 liters (762.8 in ³)
Ship Weight	1143 kg (2520 lbs)	1350 kg (2976 lbs)
Approximate Dimensions:		
Length	1274 mm (50 in)	1274 mm (50 in)
Width	994 mm (39 in)	975 mm (38 in)
Height	1134 mm (45 in)	1191 mm (47 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

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

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C13 ACERT

POWER UNIT



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.18 in) . . .	130 x 157 mm (5.1 x 6.18 in)
Displacement	12.5 liters (762.8 in ³)	12.5 liters (762.8 in ³)
Ship Weight	2085 kg (4596 lbs)	2304 kg (5080 lbs)
Approximate Dimensions:		
Length	2122 mm (83.5 in)	2085 mm (82.1 in)
Width	1247 mm (49 in)	1157 mm (45.6 in)
Height	1928 mm (75.9 in)	2082 mm (81.9 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

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
287 385 1800- 2100	309 415 1800- 2100	328 440 1800- 2100	354 475 1800- 2100	388 520 1800- 2100

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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
287 385 1800- 2100	309 415 1800- 2100	328 440 1800- 2100	354 475 1800- 2100	388 520 1800- 2100

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.



C13 ACERT

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Final, EU Stage IV

	Standard Configuration	PETU Configuration* up to 99 L (104.6 U.S. qt)
Approximate Dimensions:		
Length	1059 mm (42 in).....	854 mm (33.6 in)
Width	1049 mm (41 in).....	287 mm (11.3 in)
Height	654 mm (26 in).....	551 mm (21.7 in)
Weight	248-259 kg (547-571 lb)*.....	19.42 kg (42.8 lbs)

*Depending on configuration. Multiple options available.

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

Specifications

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent

Approximate Dimensions:	
Length	1047 mm (41 in)
Width	784 mm (31 in)
Height	451 mm (18 in)
Weight	180 kg (397 lbs)
Diameter	330 mm (13 in)

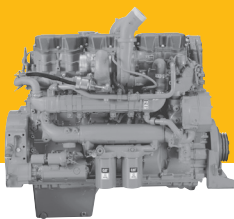
Multiple customizable configuration options available.

Standard Emissions Control Equipment

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

C15 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	137 x 171 mm (5.4 x 6.73 in) . . .	137 x 171 mm (5.4 x 6.73 in)
Displacement	15.2 liters (927.6 in ³)	15.2 liters (927.6 in ³)
Ship Weight	1542 kg (3395.5 lbs)	1666 kg (3673 lbs)
Approximate Dimensions:		
Length	1439 mm (57 in)	1449 mm (57 in)
Width	955 mm (38 in)	930 mm (37 in)
Height	1248 mm (49 in)	1242 mm (49 in)

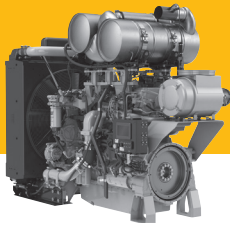
U.S. EPA Tier 4 Final, EU Stage IV Ratings

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

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

	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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.



C15 ACERT

POWER UNIT

Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	137 x 171 mm (5.39 x 6.73 in) . . .	137 x 171 mm (5.39 x 6.73 in)
Displacement	15.2 liters (927.6 in ³)	15.2 liters (927.6 in ³)
Ship Weight	2650 kg (5842 lbs)	2113 kg (4658 lbs)
Approximate Dimensions:		
Length	2488 mm (98.0 in)	2172 mm (85.5 in)
Width	1229 mm (48.4 in)	1180 mm (46.5 in)
Height	2006 mm (79.0 in)	1912 mm (75.3 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

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

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

	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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.

C15 ACERT

AFTERTREATMENT



Specifications

U.S. EPA Tier 4 Final, EU Stage IV

	IND-A & IND-B Ratings	IND-C & IND-D Ratings	PETU Configuration* up to 99 L (104.6 U.S. qt)
Approximate Dimensions:			
Length	1059 mm (42 in).....	1428 mm (56 in)	854 mm (33.6 in)
Width	1049 mm (41 in).....	1152 mm (45 in)	287 mm (11.3 in)
Height	645 mm (26 in)	652 mm (25.7 in)	551 mm (21.7 in)
Weight	258-272 kg (569-600 lbs)*..	258-272 kg (569-600 lbs)*..	19.42 kg (42.8 lbs)

*Depending on configuration. Multiple options available.

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

Specifications

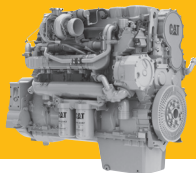
U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent

Approximate Dimensions:	
Length	1047 mm (41 in)
Width	784 mm (31 in)
Height	451 mm (18 in)
Weight	180 kg (397 lbs)
Weight	330 mm (13 in)

Multiple customizable configuration options available

Standard Emissions Control Equipment

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



C18 ACERT

ENGINE

Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.5 in ³)	18.1 liters (1104.5 in ³)
Ship Weight	1542 kg (3399.5 lbs)	1580-1717 kg (3583-3785 lbs)
Approximate Dimensions:		
Length	1438 mm (56.6 in)	1438 mm (56.6 in)
Width	969-1132 mm (38.1-44.6 in)	943-1132 mm (37.1-44.6 in)
Height	1248-1356 mm (49.1-53.4 in)	1239-1356 mm (48.8-53.4 in)

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2000	447	600	1800-2000	470	630	1800-2000

U.S. EPA Tier 4 Final Ratings

TTA (ATAAC)	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	563	755	1800	597	800	1800

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

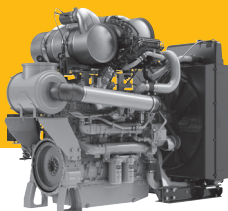
U.S. EPA Tier 4 Interim Equivalent Ratings

TTA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
	563	755	1800-1900

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions. Nonroad engines greater than 560 bkW (750 bhp) are not currently subjected to EU emission standards.

C18 ACERT

POWER UNIT



Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in) . . .	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.5 in ³)	18.1 liters (1104.5 in ³)
Ship Weight	2650 kg (5842 lbs)	2113 kg (4658 lbs)
Approximate Dimensions:		
Length	2532 mm (99.7 in)	2172 mm (85.5 in)
Width	1241 mm (48.9 in)	1180 mm (46.5 in)
Height	2006 mm (79.0 in)	1912 mm (75.3 in)

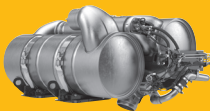
U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2000	447	600	1800-2000	470	630	1800-2000

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent and EU Stage IIIB equivalent ratings available using U.S. EPA and EU Flex provisions.



C18 ACERT

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Final, EU Stage IV

	Standard Configuration	PETU Configuration* up to 99 L (104.6 U.S. qt)
Approximate Dimensions:		
Length	1428 mm (56 in).....	854 mm (33.6 in)
Width	1152 mm (45 in).....	287 mm (11.3 in)
Height	652 mm (25.7 in).....	551 mm (21.7 in)
Weight	258-272 kg (569-600 lb)*.....	19.42 kg (42.8 lbs)

*Depending on configuration. Multiple options available.

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

Specifications

	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIB Equivalent
Approximate Dimensions:	
Length	1047 mm (41 in)
Width	784 mm (31 in)
Height	451 mm (18 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

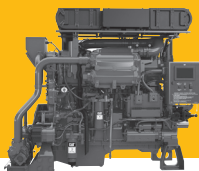
Multiple customizable configuration options available

Standard Emissions Control Equipment

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

Fire Pump

ENGINE



Specifications

C18 ACERT

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	1953 kg (4306 lbs)

Approximate Dimensions:

Length	1889 mm (74.4 in)
Width	1081.7 mm (42.6 in)
Height	1379.6 mm (54.3 in)

C18 ACERT Fire Pump Ratings FM Approved, UL Listed Ratings

	1500 rpm		1750 rpm		1900 rpm		2100 rpm	
	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
Tier 2	—	—	597	800	597	800	597	800
Tier 3	—	—	522	700	522	700	522	700
	—	—	447	600	447	600	447	600

U.S. EPA Certified for stationary emergency fire pump use only (Tier 3 Nonroad equivalent emission standards) or U.S. EPA Certified for stationary emergency fire pump use only (Tier 2 Nonroad equivalent emission standards). FM, UL, and NFPA standards.

C27 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Final	U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	V-12, Diesel.	V-12, Diesel
Bore x Stroke	137.2x152.4 mm (5.4x6.0 in) . . .	137.2x152.4 mm (5.4x6.0 in)
Displacement	27 liters (1649.5 in ³)	27 liters (1649.5 in ³)
Ship Weight	3004 kg (6625 lbs)	3004 kg (6625 lbs)
Approximate Dimensions (engine only):		
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)

U.S. EPA Tier 4 Final Ratings

	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	653	875	1800	709	950	1800	783	1050	1800

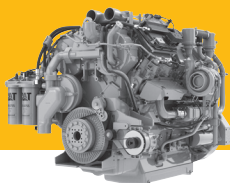
U.S. EPA Tier 4 Interim Equivalent Ratings

	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	653	875	1800	709	950	1800	783	1050	1800

U.S. EPA Tier 4 Final Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent ratings available using U.S. EPA Flex provisions. Nonroad engines greater than 560 bkW (750 bhp) are not currently subject to EU emission standards.

C32 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Final	U.S. EPA Tier 4 Interim Equivalent
Engine Configuration ...	V-12, Diesel	V-12, Diesel
Bore x Stroke	145.0 x 162 mm (5.71 x 6.38 in) ..	145.0 x 162 mm (5.71 x 6.38 in)
Displacement	32.1 liters (1959 in ³)	32.1 liters (1959 in ³)
Ship Weight	3004 kg (6625 lbs)	3004 kg (6625 lbs)
Approximate Dimensions (engine only):		
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)

U.S. EPA Tier 4 Final Ratings

TA (ATAAC)	B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	746	1000	1800	839	1125	1800	895	1200	1800

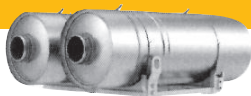
U.S. EPA Tier 4 Interim Equivalent Ratings

TA (ATAAC)	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	839	1125	1800	895	1200	1800

U.S. EPA Tier 4 Final Nonroad emission standards. U.S. EPA Tier 4 Interim equivalent ratings available using U.S. EPA Flex provisions. Nonroad engines greater than 560 bkW (750 bhp) are not currently subject to EU emission standards.

C27 ACERT | C32 ACERT

AFTERTREATMENT



Specifications

U.S. EPA Tier 4 Final

	Remote CEMs (2 required)	Engine-mounted CEM
Approximate Dimensions:		
Length	1156 mm (45.5 in)	1148 mm (45.2 in)
Width	406.6 mm (16 in)	1090 mm (42.9 in)
Height	439 mm (17.3 in)	436 mm (17.2 in)
Weight	68 kg (150 lb)	161 kg (355 lbs)

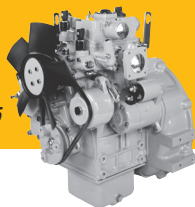
Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **Muffler**
 - **Mounting Structure**
- **NRS:** NOx Reduction System

C0.5 | C0.7

ENGINES

C0.5



Specifications

	C0.5 U.S. EPA Tier 4 Interim Equivalent	C0.7 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 2, Diesel	In-Line 3, Diesel
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 in ³)	0.76 liters (46.4 in ³)
Ship Weight (NA)	57 kg (126 lbs)	71 kg (156.5 lbs)
Approximate Dimensions:		
Length	407 mm (16.00 in)	480 mm (18.9 in)
Width	371 mm (14.60 in)	371 mm (14.6 in)
Height	523 mm (20.60 in)	528 mm (20.8 in)

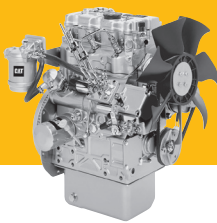
C0.5 U.S. EPA Tier 4 Interim Equivalent Ratings

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

C0.7 U.S. EPA Tier 4 Interim Equivalent Ratings

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

U.S. EPA Tier 4 Interim Nonroad equivalent emission standards (not currently EPA certified). Available for other regulated and non-regulated areas.



C1.1

C1.1 | C1.5

ENGINES

Specifications

	C1.1 U.S. EPA Tier 4 Interim Equivalent	C1.5 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 3, Diesel	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.1 liters (69 in ³)	1.496 liters (91 in ³)
Ship Weight (NA)	87 kg (191 lbs)	149 kg (328 lbs) (NA) 156.5 kg (345 lbs) (T)
Approximate Dimensions:		
Length	491 mm (19.33 in)	572 mm (22.50 in) (NA, T)
Width	400 mm (15.7 in)	453 mm (17.8 in) (NA) 512 mm (20.2 in) (T)
Height	576 mm (22.7 in)	643 mm (25.30 in) (NA, T)

C1.1 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		rpm
	bkW Std/Derate	bhp Std/Derate	
	14.7 / 13.7	19.7 / 18.4	2200
	17.3 / 16.1	23.2 / 21.6	2600
	18.5 / 16.8	24.8 / 22.6	2800
	19.7 / 17.7	26.4 / 23.7	3000
	21.0	28.2	3400

C1.5 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		rpm
	bkW	bhp	
	20.7	27.8	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

U.S. EPA Tier 4 Interim Nonroad equivalent emission standards (not currently EPA certified). Available for other regulated and non-regulated areas.

C1.1 | C1.5

POWER UNITS

Specifications

	C1.1 U.S. EPA Tier 4 Interim Equivalent	C1.5 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 3, Diesel	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.1 liters (69 in ³)	1.496 liters (91 in ³)
Ship Weight (NA)	129 kg (284 lbs)	175 kg (385.8 lbs)
Approximate Dimensions:		
Length	778 mm (30.6 in)	820 mm (32.3 in)
Width	438 mm (17.2 in)	497 mm (19.6 in)
Height	730 mm (28.7 in)	793 mm (31.2 in)

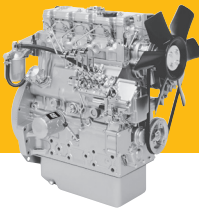
C1.1 U.S. EPA Tier 4 Interim Equivalent Ratings

	C Rating (Intermittent)		
NA	bkW	bhp	rpm
	17.9	24.0	3000

C1.5 U.S. EPA Tier 4 Interim Equivalent Ratings

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

U.S. EPA Tier 4 Interim Nonroad equivalent emission standards (not currently EPA certified). Available for other regulated and non-regulated areas.



C1.6

C1.6 | C1.7

ENGINES

Specifications

	C1.6 U.S. EPA Tier 4 Interim Equivalent	C1.7 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 4, Diesel	In-Line 3, Diesel
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 in ³)	1.66 liters (101 in ³)
Ship Weight (NA)	106.8 kg (235.5 lbs)	160 kg (352.7 lbs)
Approximate Dimensions:		
Length	591 mm (23.30 in)	564 mm (22.2 in)
Width	420 mm (16.5 in)	453 mm (17.8 in)
Height	576 mm (22.70 in)	654 mm (25.7 in)

C1.6 U.S. EPA Tier 4 Interim Equivalent Ratings

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

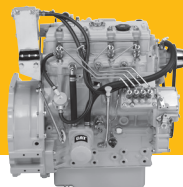
C1.7 U.S. EPA Tier 4 Interim Equivalent Ratings

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

U.S. EPA Tier 4 Interim Nonroad equivalent emission standards (not currently EPA certified). Available for other regulated and non-regulated areas.

C2.2

ENGINE



Specifications

C2.2 U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in ³)
Ship Weight	184 kg (406 lbs) (NA) 194 kg (427.7 lbs) (T, TA)

Approximate Dimensions:

Length	664 mm (26.14 in) (NA) 660 mm (26.0 in) (T, TA)
Width	459 mm (18.1 in) (NA) 531 mm (21.0 in) (T, TA)
Height	725 mm (28.5 in) (NA, T, TA)

C2.2 U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent Ratings

NA	C Rating (Intermittent)		rpm
	bkW Std/Derate	bhp Std/Derate	
	31.0	41.6	2200
	34.1	45.7	2400
	35.7 / 31.4	47.9 / 42.1	2600
	36.4	48.8	2800 & 3000
T	40 / 36.3	53.3 / 48.7	2800
	43.0	57.7	2600
	44.7	60.0	2800
	45.5	61.0	3000
TA (ATAAC)	49.3	66.1	2800

U.S. EPA Tier 4 Interim Nonroad equivalent emission standards (not currently EPA certified), EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C2.2

POWER UNIT

Specifications

	U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 4, Diesel
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 (37.24 in) (NA) 973 mm (38.3 in) (T)
Width	513 mm (20.3 in) (NA) 590 mm (23.23 in) (T)
Height	854 mm (33.62 in) (NA) 973 mm (38.3 in) (T)

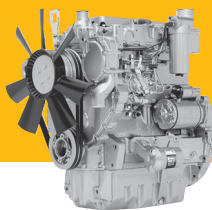
U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	37.0	49.6	3000
T	44.7	55.9	2800

U.S. EPA Tier 4 Interim Nonroad equivalent emission standards (not currently EPA certified), EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

3054C

ENGINE



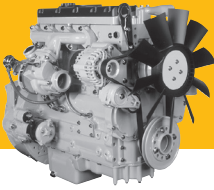
Specifications

	U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	291 kg (640 lbs) (NA) 306 kg (674.6 lbs) (T, TA)
Approximate Dimensions:	
Length	663 mm (26.1 in) (NA, T, TA)
Width	470 mm (18.5 in) (NA) 597 mm (23.5 in) (T) 620 mm (24.4 in) (TA)
Height	810 mm (31.9 in) (NA, T) 775 mm (30.5 in) (TA)

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

NA	bkW	C Rating (Intermittent)	
		bhp	rpm
	52.0-64.0	69.7- 85.8	2000-2400
T	62.0-74.5	83.0-99.9	2000-2400
TA (ATAAC)	78.0-97.0	104.5-130.0	2000-2300

U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified).
EU Stage II Nonroad equivalent emission standards (non-current for EU). Available for
other regulated and non-regulated areas.



C4.4 ENGINE

Specifications

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	291 kg (640 lbs) (NA) 306 kg (674.6 lbs) (T, TA)

Approximate Dimensions:

Length	663 mm (26.1 in) (NA, T, TA)
Width	470 mm (18.5 in) (NA) 597 mm (23.5 in) (T) 620 mm (24.4 in) (TA)
Height	810 mm (31.9 in) (NA, T) 775 mm (30.5 in) (TA)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

NA	bkW	C Rating (Intermittent)	
		bhp	rpm
	54-56	72.4-75	2200
T			
	55.5-74.5	74.4-99.9	2200-2400
TA (ATAAC)			
	68-83	91.2-111.3	2200-2300

U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified).
EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for
other regulated and non-regulated areas.

C4.4

POWER UNIT



Specifications

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	465 kg (1025 lbs) (T, TA)

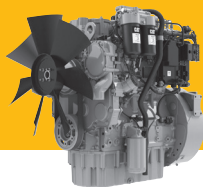
Approximate Dimensions:

Length	1260 mm (49.6 in)
Width	734 mm (28.9 in)
Height	964 mm (38 in)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	61-68	81.8-91	2200
TA (ATAAC)	74.5-81	99.9-108.6	2200

U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified).
EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for
other regulated and non-regulated areas.



C4.4 ACERT

ENGINE

Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	465 kg (1025.15 lbs) (T, TA)

Approximate Dimensions:

Length	820 mm (32.3 in) (T, TA)
Width	657 mm (25.9 in) (T, TA)
Height	868 mm (34.2 in) (T)

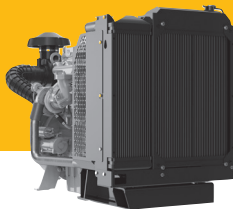
China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

T	bkW	C Rating (Intermittent)	
		bhp	rpm
	68.0-74.5	91.2-99.9	2200
TA (ATAAC)			
	74.5-106	99.5-142	2200

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C4.4 ACERT

POWER UNIT



Specifications

**China Stage III Nonroad, U.S. EPA Tier 3 Equivalent,
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	594 kg (1309.5 lbs)

Approximate Dimensions:

Length	1358 mm (53.5 in)
Width	746 mm (29.4 in)
Height	963 mm (37.9 in)

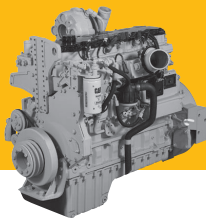
China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
	96.5-106	129.4-142.1	2200

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C7 ACERT

ENGINE



Specifications

**U.S. EPA Tier 3 Equivalent,
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	110 x 127 mm (4.33 x 5.0 in)
Displacement	7.2 liters (442 in ³)
Ship Weight	588 kg (1296 lbs)

Approximate Dimensions:

Length	1053 mm (41.5 in)
Width	758 mm (29.8 in)
Height	1032 mm (40.6 in)

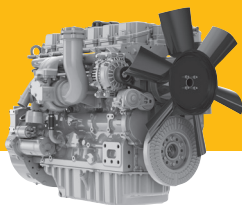
U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	168	225	1800-2200	186	250	1800-2200	224	300	2100-2200
	—	—	—	205	275	1800-2200	—	—	—

U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified).
EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for
other regulated and non-regulated areas.

C7.1

ENGINE



Specifications

**China Stage III Nonroad,
U.S. EPA Tier 2 or Tier 3 Equivalent
EU Stage II or Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.01 liters (427.7 in ³)
Ship Weight	704 kg (1552.1 lbs)

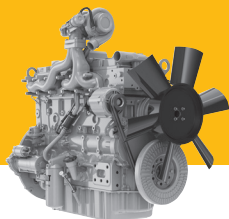
Approximate Dimensions:

Length	1074.3 mm (42.3 in)
Width	721.1 mm (28.4 in)
Height	823.9 mm (32.4 in)

China Stage III Nonroad, U.S. EPA Tier 2 or Tier 3 Equivalent, EU Stage II or Stage IIIA Equivalent Ratings

TA	bkW	C Rating (Intermittent)	
		bhp	rpm
	112	150	2200
	129	172	2000
	118	158	2000

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 2 or Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage II or Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.



C7.1 ACERT

ENGINE

Specifications

**China Stage III Nonroad,
U.S. EPA Tier 3 Equivalent
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.01 liters (427.7 in ³)
Ship Weight	506 kg (1115.5 lbs)

Approximate Dimensions:

Length	1050 mm (41.3 in)
Width	668 mm (26.3 in)
Height	817 mm (32.2 in)

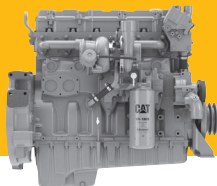
China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA	bkW	C Rating (Intermittent)	
		bhp	rpm
	116	156	2200
	129	173	2200-2500
	151	202	2200
	168	225	2200
	186	250	2200
	205	275	2200

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C9 ACERT

ENGINE



Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	112 x 149 mm (4.41 x 5.87 in)
Displacement	8.8 liters (537 in ³)
Ship Weight	864 kg (1905 lbs)

Approximate Dimensions:

Length	1091 mm (43 in)
Width	827 mm (32.6 in)
Height	1023 mm (40.3 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	205	275	1800-2200	223	300	1800-2200	242	325	1800-2200
	—	—	—	—	—	—	261	350	1800-2200

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings**

TA (ATAAC)	D Rating		
	bkW	bhp	rpm
	280	375	1800-2200

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings**

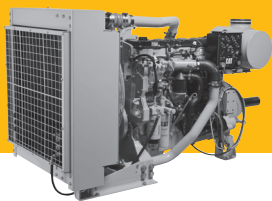
TA (ATAAC)	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	223	300	1800-2200	261	350	1800-2200

*China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

**U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). EU Stage II Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C9 ACERT

POWER UNIT



Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	112 x 149 mm (4.41 x 5.87 in)
Displacement	8.8 liters (537 in ³)
Ship Weight	1490 kg (3285 lbs)

Approximate Dimensions:

Length	2174.4 mm (85.81 in)
Width	987.8 mm (38.89 in)
Height	2008.1 mm (79.06 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings*

	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)	205	275	1800-2200	223	300	1800-2200	242	325	1800-2200
	—	—	—	—	—	—	261	350	1800-2200

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings**

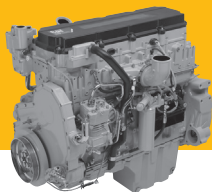
	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)	223	300	1800-2200	261	350	1800-2200

*Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

**U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). EU Stage II Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C11 ACERT

ENGINE



Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 140 mm (5.12 x 5.51 in)
Displacement	11.1 liters (677 in ³)
Ship Weight	930 kg (2050 lbs)

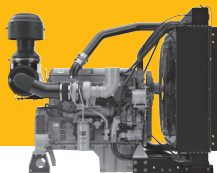
Approximate Dimensions:

Length	1203 mm (47.4 in)
Width	1054 mm (41.5 in)
Height	1186 mm (46.7 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

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)														
242	325	1800-	261	350	1800-	287	385	1800-	313	420	1800-	336	450	1800-
		2100			2100			2100			2100			2100

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.



C11 ACERT

POWER UNIT

Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 140 mm (5.12 x 5.51 in)
Displacement	11.1 liters (677 in ³)
Ship Weight	1692 kg (3730 lbs)

Approximate Dimensions (engine only):

Length	1203 mm (47.4 in)
Width	1054 mm (41.5 in)
Height	1186 mm (46.7 in)

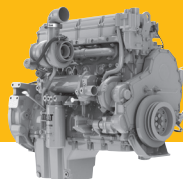
China Stage III Nonroad III, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	242	325	1800- 2100	261	350	1800- 2100	287	385	1800- 2100

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C13 ACERT

ENGINE



Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (763 in ³)
Ship Weight	908.4 kg (2002.7 lbs)

Approximate Dimensions:

Length	1295 mm (50.98 in)
Width	1186 mm (46.69 in)
Height	1053.8 mm (41.49 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings*

A Rating (Continuous)	B Rating			C Rating (Intermittent)			D Rating			E Rating				
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm		
287	385	1800-2100	310	415	1800-2100	328	440	1800-2100	354	475	1800-2100	388	520	1800-2100

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings**

TA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	310	415	1800-2100	328	440	1800-2100

*China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

**U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). EU Stage II Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C13 ACERT

POWER UNIT

Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (763 in ³)
Ship Weight	1692 kg (3730 lbs)

Approximate Dimensions:

Length (engine only) . . .	1295 mm (50.98 in)
Width	1186 mm (46.69 in)
Height	1053.8 mm (41.49 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	287	385	1800-2100	310	415	1800-2100	328	440	1800-2100

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings**

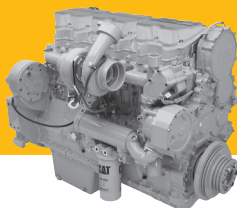
TA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	310	415	1800-2100	328	440	1800-2100

*Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

**U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). EU Stage II Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C15 ACERT

ENGINE



Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 171.4 mm (5.4 x 6.75 in)
Displacement	15.2 liters (927.56 in ³)
Ship Weight	1469 kg (3239 lbs)

Approximate Dimensions:

Length	1377 mm (54.2 in)
Width	926 mm (36.5 in)
Height	1226 mm (48.3 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	328	440	1800-2100	354	475	1800-2100	403	540	1800-2100

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings**

TA (ATAAC)	D Rating			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
433	580	1800-2100	444	595	1800-2100	

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA Certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C15 ACERT

POWER UNIT

Specifications

	China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 171.4 mm (5.4 x 6.75 in)
Displacement	15.2 liters (927.56 in ³)
Ship Weight	2055 kg (4531.5 lbs)
Approximate Dimensions:	
Length	2447.7 mm (96.4 in)
Width	1316.6 mm (51.8 in)
Height	2629.5 mm (103.5 in)

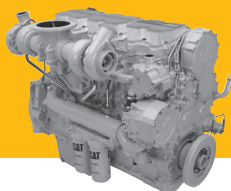
China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	328	440	1800-2100	354	475	1800-2100	403	540	1800-2100

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA Certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

C18 ACERT

ENGINE



Specifications

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EPA Tier 2 Equivalent, EU Stage IIIA Equivalent

Engine Configuration	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	1673 kg (3688 lbs)

Approximate Dimensions:

Length	1388 mm (54.6 in) (TA)
	1414.1 mm (55.7 in) (TTA)
Width	921 mm (36.3 in) (TA)
	974.0 mm (38.3 in) (TTA)
Height	1243 mm (48.9 in) (TA)
	1257 mm (49.5 in) (TTA)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

U.S. EPA Tier 2 Equivalent Ratings**

TTA (ATAAC)	D Rating			E Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	571	765	1800-2100	597	800	1800-2100

*China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

**U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). EU Stage II Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

***Non-certified. Available for global non-regulated areas.

Non-certified Ratings***

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

C18 ACERT

POWER UNIT

Specifications

	China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	2197.1 kg (4843.7 lbs)
Approximate Dimensions (engine only):	
Length	1388 mm (54.6 in)
Width	921 mm (36.3 in)
Height	1243 mm (48.9 in)

China Stage III Nonroad, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100

Non-certified Ratings**

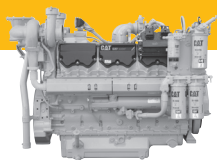
TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100

*China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

**Non-certified. Available for global non-regulated areas.

C27 ACERT | C32 ACERT

ENGINES



Specifications

	C27 ACERT U.S. EPA China Stage III Nonroad, Tier 2 Equivalent	C32 ACERT U.S. EPA China Stage III Nonroad, Tier 2 Equivalent
Engine Configuration . . .	V-12, Diesel	V-12, Diesel
Bore x Stroke	137.2x152.4 mm (5.4x6.0 in) . . .	145.0x162 mm (5.71x6.38 in)
Displacement	27 liters (1648 in ³)	32.1 liters (1959 in ³)
Ship Weight	2946 kg (6495 lbs)	2946 kg (6495 lbs)
Approximate Dimensions:		
Length	1917 mm (75.5 in)	1917 mm (75.5 in)
Width	1464 mm (57.6 in)	1479 mm (58.2 in)
Height	1319 mm (51.9 in)	1319 mm (51.9 in)

China Stage III Nonroad, U.S. EPA Tier 2 Equivalent C27 ACERT Ratings

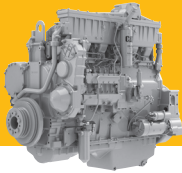
A Rating (Continuous)			B Rating			C Rating* (Intermittent)			D Rating			E Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)														
597	800	1800-	653	875	1800-	708	950	1800-	783	1050	1800-	858	1150	1800-
		2100			2100			2100			2100			2100

China Stage III Nonroad, U.S. EPA Tier 2 Equivalent C32 ACERT Ratings

A Rating			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)														
—	—	—	708	950	1800-	839	1125	1800-	895	1200	1800-	1007	1350	1800-
					2100			2100			2100			2100

Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). Available for other regulated and non-regulated areas.

*Available in rear turbo configuration. Dimensions will vary.



3406C

ENGINE

Specifications

	Non-certified
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 165.1 mm (5.4 x 6.5 in)
Displacement	14.6 liters (893 in ³)
Ship Weight	1300 kg (2866 lbs)
Approximate Dimensions:	
Length	1660 mm (65.35 in)
Width	906 mm (35.67 in)
Height	1335 mm (52.56 in)

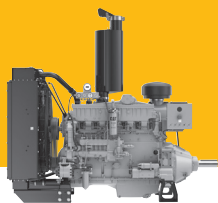
Non-certified Ratings

TA	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	298	400	1800	347	465	1800
	343	460	2100	—	—	—

Non-certified. Available for global non-regulated areas.

3406C

POWER UNIT



Specifications

Non-certified

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 165.1 mm (5.4 x 6.5 in)
Displacement	14.6 liters (893 in ³)
Ship Weight	1300 kg (2866 lbs) (engine only)

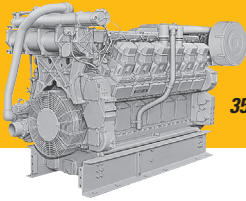
Approximate Dimensions (engine only):

Length	1660 mm (65.35 in)
Width	906 mm (35.67 in)
Height	1335 mm (52.56 in)

Non-certified Ratings

	Irrigation Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA	269	361	1800	328	440	2000	347	465	1800
	306.5	411	1800	343	460	2100	—	—	—

Non-certified. Available for global non-regulated areas.



3512

3500 ENGINES

Specifications

	3508	3512
Engine Configuration . . .	V8, Diesel	V-12, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
Displacement	34.5 liters (2105 in ³)	51.8 liters (3158 in ³)
Ship Weight	4309 kg (9500 lbs)	6078 kg (13 400 lbs)
Approximate Dimensions:		
Length	2136 mm (84 in)	2676 mm (105 in)
Width	1703 mm (67 in)	1703 mm (67 in)
Height	1720 mm (68 in)	1720 mm (68 in)

	3516
Engine Configuration . . .	V-16, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)
Displacement	69 liters (4210 in ³)
Ship Weight	7484 kg (16 499 lbs)
Approximate Dimensions:	
Length	3366 mm (133 in)
Width	1703 mm (67 in)
Height	1720 mm (68 in)

3508 Ratings

	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	<hr/>					
	507	680	1200	612	820	1300
	578	775	1800	634	850	1800
	638	855	1800	746	1000	1800

3512 Ratings

	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	<hr/>					
	761	1020	1200	858	1150	1300
	955	1280	1800	1119	1500	1800

3516 Ratings

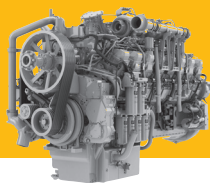
	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	<hr/>					
	1011	1355	1200	1242	1665	1300
	1275	1710	1800	1492	2000	1800

Non-certified. Available for global non-regulated areas.

3500B | 3500C

ENGINES

3516B



Specifications

	3508B	3512B
Engine Configuration	V8, Diesel	V-12, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in.)	170 x 190 mm (6.7 x 7.5 in.)
Displacement	34.5 liters (2105 in ³)	51.8 liters (3158 in ³)
Ship Weight	4309 kg (9500 lbs)	6078 kg (13 400 lbs)

Approximate Dimensions:

	3508B	3512B
Length	2462 mm (97 in.)	3067 mm (120.8 in.)
Width	1703 mm (67 in.)	1785 mm (70.3 in.)
Height	1720 mm (68 in.)	1806 mm (71.1 in.)

	3512C U.S. EPA Tier 2 Equivalent	3516C U.S. EPA Tier 2 Equivalent
Engine Configuration	V-12, Diesel	V-16, Diesel
Bore x Stroke	170 x 215 mm (6.7 x 8.5 in.)	170 x 215 mm (6.7 x 8.5 in.)
Displacement	58.6 liters (3574 in ³)	78 liters (4760 in ³)
Ship Weight	6078 kg (13 400 lbs)	7840 kg (17 284 lbs)

Approximate Dimensions:

	3512C U.S. EPA Tier 2 Equivalent	3516C U.S. EPA Tier 2 Equivalent
Length	3067 mm (120.8 in.)	3278 mm (129 in.)
Width	1785 mm (70.3 in.)	1530 mm (60 in.)
Height	1806 mm (71.1 in.)	2062 mm (81 in.)

Mobile Equipment Ratings

3508B Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
746	1000	1800	783	1050	1800	820	1100	1800

3512B Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
1119	1500	1800	1174	1575	1800	1231	1650	1800

3516B Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (SCAC)								
1492	2000	1800	1566	2100	1800	1640	2200	1800

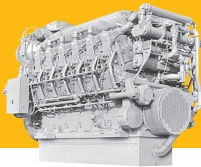
3512C U.S. EPA Tier 2 Equivalent Ratings

A Rating (Continuous)			
TA (ATAAC)	bkW	bhp	rpm
	1120	1500	1800

3516C U.S. EPA Tier 2 Equivalent Ratings

A Rating (Continuous)			
TA (ATAAC)	bkW	bhp	rpm
	1566	2100	1750

U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified) or non-certified. Available for other regulated and non-regulated areas.



3612

3600 ENGINES

Specifications

	3606	3608
Engine Configuration . . .	In-Line 6, Diesel	In-Line 8, Diesel
Bore x Stroke	280 x 300 mm (11 x 11.8 in) . . .	280 x 300 mm (11 x 11.8 in)
Displacement	110.8 liters (6764 in ³)	147.8 liters (9018 in ³)
Ship Weight	15 680 kg (34 500 lbs)	19 000 kg (41 800 lbs)
Approximate Dimensions:		
Length	3988 mm (157 in)	4828 mm (190 in)
Width	1748 mm (69 in)	1748 mm (69 in)
Height	2626 mm (103 in)	2626 mm (103 in)

	3612	3616
Engine Configuration . . .	V-12, Diesel	V-16, Diesel
Bore x Stroke	280 x 300 mm (11 x 11.8 in) . . .	280 x 300 mm (11 x 11.8 in)
Displacement	221.7 liters (13 527 in ³)	295.6 liters (18 036 in ³)
Ship Weight	25 140 kg (55 300 lbs)	29 950 kg (65 900 lbs)
Approximate Dimensions:		
Length	4562 mm (180 in)	5482 mm (216 in)
Width	1704 mm (67 in)	1704 mm (67 in)
Height	3231 mm (127 in)	3231 mm (127 in)

3606 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	1490	1998	750
	1560	2092	800
	1730	2319	900
	1850	2481	1000

3608 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	2080	2787	800
	2300	3080	900
	2460	3300	1000

3612 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	2980	3996	750
	3120	4184	800
	3460	4640	900
	3700	4962	1000

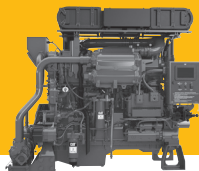
3616 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	4160	5579	800
	4600	6169	900
	4920	6598	1000

Non-certified. Available for global non-regulated areas.

Fire Pump

ENGINES



Specifications

C18 ACERT

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	1953 kg (4306 lbs)

Approximate Dimensions:

Length	1889 mm (74.4 in)
Width	1081.7 mm (42.6 in)
Height	1379.6 mm (54.3 in)

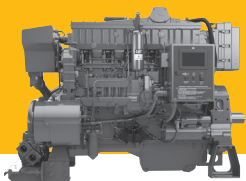
C18 ACERT Fire Pump Ratings FM Approved, UL Listed

	1500 rpm		1750 rpm		1900 rpm		2100 rpm	
	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
Tier 2	—	—	597	800	597	800	597	800
Tier 3	—	—	522	700	522	700	522	700
	—	—	447	600	447	600	447	600
Non-certified	522	700	—	—	—	—	—	—

Ratings below 560 kW (751 bhp): U.S. EPA certified for stationary emergency fire pump use only (Tier 3 Nonroad equivalent emission standards).

Ratings above 560 kW (751 bhp): U.S. EPA certified for stationary emergency fire pump use only (Tier 2 Nonroad equivalent emission standards).

Fire Pump ENGINES



3406C Ratings FM Approved, UL Listed In-Line 6

1750 rpm		2100 rpm		2300 rpm	
bkW	bhp	bkW	bhp	bkW	bhp
218*	292*	321*	430*	339	455
276	370	359	482	—	—
313*	420*	—	—	—	—
343	460	—	—	—	—

*3406C wet manifolds

Additional 3406C ratings with and without radiators are available, but not FM approved or UL listed.

3412C Ratings Not FM Approved, Not UL Listed V-12

1750 rpm		1900 rpm		2100 rpm	
bkW	bhp	bkW	bhp	bkW	bhp
476*	638*	551*	739*	551	739*

*3412C wet manifolds

3508 Ratings Not FM Approved, Not UL Listed V-8

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
709	950	794	1065

3512 Ratings Not FM Approved, Not UL Listed V-12

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
1066	1430	1193	1600

3516 Ratings Not FM Approved, Not UL Listed V-16

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
1417	1900	1480	1985

Non-certified. Available for global non-regulated areas. FM, UL, and NFPA standards.

Label and NSPS Regulations

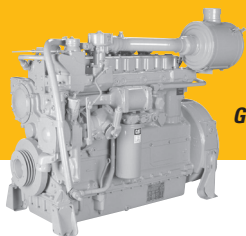
Label and NSPS Regulations for Gas Engines

Stationary Use Only Label

- Effective January 2004, the U.S. EPA Non-road Mobile SI rule restricts the use of SI gas engines within the United States. Cat gas engines are not certified for mobile applications within the U.S. and are to be used in stationary use only applications. All gas engines will have this label attached regardless of the dealer placing the order.

U.S. EPA SI Stationary NSPS Rule (40CFR60)

- The rule applies to newly built engines.
- This standard regulates NO_x, CO, and VOC in the United States for spark ignited natural gas engines. It is the customer's responsibility to coordinate and complete site emissions testing and submit for a U.S. EPA certificate of compliance.
- Effective July 1, 2010, the U.S. EPA will enforce "Stage 2" of the new Spark Ignited New Source Performance Standard (SI NSPS) for stationary engines rated equal to or above 500 bhp. Effective January 1, 2011, this standard will be required for engines rated below 500 bhp.



G3306

G3300

GAS ENGINES

Specifications

	G3304 (NA)	G3306 (TA)
Bore x Stroke	121 x 152 mm (4.75 x 6.0 in)	121 x 152 mm (4.75 x 6.0 in)
Displacement	7.0 liters (425 in ³)	10.5 liters (638 in ³)
Ship Weight	757 kg (1670 lbs)	948 kg (2090 lbs)
Approximate Dimensions:		
Length	1158 mm (46 in)	1539 mm (60 in)
Width	744 mm (29 in)	978 mm (38 in)
Height	1170 mm (46 in)	1261 mm (50 in)

G3304 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3304B NA²	71	95

G3306 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3306B NA²	108	145
G3306B TA^{1,2}	151	203
G3306B TAA^{1,2}	157	211

¹54°C/130°F water to aftercooler

²With Caterpillar or customer-supplied air fuel ratio control and aftertreatment.

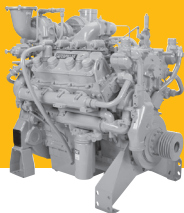
Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. Some ratings also have standard emission settings available for export only. For specific emission information please refer to engine spec sheet.

G3400

GAS ENGINES

G3408



Specifications

	G3406 (TA)	G3408C LE	G3412C LE
Bore x Stroke	137 x 165 mm (5.4 x 6.5 in)	137 x 152 mm (5.4 x 6.0 in)	137 x 152 mm (5.4 x 6.0 in)
Displacement	14 liters (893 in ³)	18 liters (1099 in ³)	27 liters (1649 in ³)
Ship Weight	1362 kg (3000 lbs)	2245 kg (4950 lbs)	2141 kg (4720 lbs)
Approximate Dimensions:			
Length	1934 mm (76 in)	1756 mm (69.1 in)	2442 mm (96 in)
Width	1270 mm (50 in)	1563 mm (61.5 in)	1598 mm (63 in)
Height	1433 mm (56 in)	1758 mm (69.2 in)	1960 mm (77 in)

G3406 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3406 NA ²	160	215
G3406 TA ^{1,2}	206	276
G3406 TA ^{1,3}	242	325

G3408 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3408 NA ²	190	255
G3408 TA ^{1,3}	298	400
G3408C LE ^{1,3}	317	425

G3412 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3412 TA ^{1,3}	448	600
G3412C LE ¹	475	637

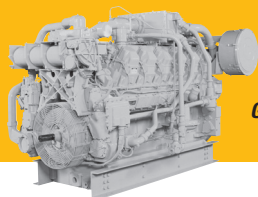
¹54°C/130°F Water to Aftercooler

²With customer-supplied air fuel ratio control and aftertreatment

³Rating for export only. Not NSPS site compliant capable.

Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. Some ratings also have standard emission settings available for export only. For specific emission information please refer to engine spec sheet.



G3512

G3500

GAS ENGINES

Specifications

	G3508B LE	G3512B LE
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
Displacement	34.5 liters (2105 in ³)	51.8 liters (3158 in ³)
Ship Weight	3941 kg (8688 lbs)	4950 kg (10,913 lbs)

Approximate Dimensions:

Length	2522 mm (99 in)	3023 mm (119 in)
Width	2014 mm (79 in)	2220 mm (87.4 in)
Height	2131 mm (84 in)	2136 mm (84.1 in)

	G3516B LE	G3520B LE
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
Displacement	69.0 liters (4211 in ³)	86.3 liters (5263 in ³)
Ship Weight	8401 kg (18,520 lbs)	11 168 kg (24,622 lbs)

Approximate Dimensions:

Length	3400 mm (133 in)	4180 mm (164 in)
Width	1844 mm (73 in)	1755 mm (69 in)
Height	2286 mm (90 in)	2385 mm (94 in)

G3508 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3508 TA ^{1,2}	391	524	—	—
G3508 LE ¹	—	—	500	670
G3508B LE ¹	—	—	514	690

G3516 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3516 NA ^{2,3}	492	660	—	—
G3516 TA ^{1,2}	783	1050	—	—
G3516 LE ¹	858	1150	1000	1340
G3516B LE ¹	—	—	1029	1380

G3512 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3512 TA ^{1,2}	589	790	—	—
G3512 LE ¹	642	860	749	1004
G3512B LE ¹	—	—	772	1035

G3520B Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3520B LE ¹	1104	1480	1286	1725

¹54°C/130°F Water to Aftercooler

²With customer-supplied air fuel ratio control and aftertreatment

³Rating for export only. Not NSPS site compliant capable.

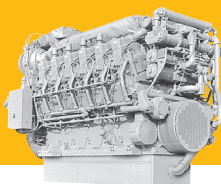
Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. For specific emission information please refer to engine spec sheet.

G3600

GAS ENGINES

G3612



Specifications

	G3606 (TA)	G3608 (TA)
Bore x Stroke	300 x 300 mm (11.8 x 11.8 in)	300 x 300 mm (11.8 x 11.8 in)
Displacement	127.2 liters (7 762 in ³)	169.6 liters (10 350 in ³)
Ship Weight	15 676 kg (34 560 lbs)	19 000 kg (41 888 lbs)

Approximate Dimensions:

Length	4638 mm (183 in)	5465 mm (215 in)
Width	1744 mm (69 in)	1868 mm (74 in)
Height	2921 mm (115 in)	2922 mm (115 in)

	G3612 (TA)	G3616 (TA)
Bore x Stroke	300 x 300 mm (11.8 x 11.8 in)	300 x 300 mm (11.8 x 11.8 in)
Displacement	254.4 liters (15 528 in ³)	339.2 liters (20 705 in ³)
Ship Weight	25 084 kg (55 300 lbs)	29 892 kg (65 900 lbs)

Approximate Dimensions:

Length	4735 mm (186 in)	5661 mm (223 in)
Width	2380 mm (94 in)	2380 mm (94 in)
Height	3220 mm (127 in)	3208 mm (126 in)

G3606 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
G3606 LE³	1324	1775
G3606 LE²	1368	1835
G3606 LE¹	1413	1895

G3612 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
G3612 LE³	2647	3550
G3612 LE²	2733	3665
G3612 LE¹	2822	3785

GCM34 Ratings

	750 rpm	
Engine — Continuous	bkW	bhp
G12CM34	4575	6135
G16CM34	6750	9052

¹32°C/90°F Water to Aftercooler

²43°C/110°F Water to Aftercooler

³54°C/130°F Water to Aftercooler

G3608 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
G3608 LE³	1767	2370
G3608 LE²	1823	2445
G3608 LE¹	1879	2520

G3616 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
G3616 LE³	3531	4735
G3616 LE²	3647	4890
G3616 LE¹	3762	5045

Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. For specific emission information please refer to engine spec sheet.

Premium Control Panel for Tier 4 Final, Stage IV C9.3 ACERT – C18 ACERT

- 12V and 24V systems and integrated circuit protection
- J1939 throttle and regeneration control
- Color display
- Available with English or metric units
- Five languages supported
- Integrated LED indicators: engine warning, engine shutdown, emissions malfunction, low DEF level, DES active
- Active diagnostic codes displayed with description
- 4-position key switch



Standard Control Panel for Tier 4 Final, Stage IV C9.3 ACERT – C18 ACERT

- 12V and 24V systems and integrated circuit protection
- J1939 throttle and regeneration control
- Analog gauges: engine speed, coolant temperature, oil pressure, fuel pressure, DEF level
- LCD: engine hours, diagnostic codes, fuel rate, voltage, time until regeneration
- Integrated LED indicators: engine warning, engine shutdown, emissions malfunction, low DEF level, DES active
- 4-position key switch



Mini Industrial Panel Display (MIPD)

- 15 user-defined screens
- Max 10 parameters per screen
- 8 displays on same J1939 network
- Multiple language compatibility
- Tier 3, Stage IIIA and Tier 4 Interim, Stage IIIB Compatible

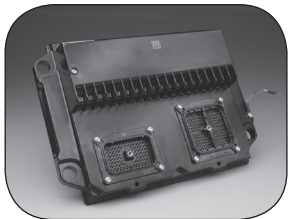


For additional information visit www.catelectronics.com

Technology

ADEM A4 ECU

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



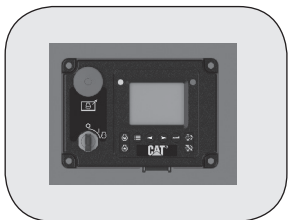
Cat Messenger

- Electronic display unit
- Full graphic LCD screen
- Engine status and diagnostic display in one
- Four easy scroll buttons
- Monitors engine problems
- Alerts driver of corrective action
- Schedules engine for service
- Provides diagnostic information, SAE standard codes, and brief text explanation



Base Tier 4 Interim Stage IIIB Engine Control Panel

- Compact engine panel
- Clear LCD display
- Cat keyswitch
- Regeneration and throttle controls
- Stop button
- Warning/fault lamps and codes displayed



For additional information visit www.catelectronics.com

Notes

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Your Cat dealer can answer any questions you have about Cat Power Systems, customer support, parts, or service capability anywhere in the world. For the name and number of the Cat dealer nearest you, call us or visit our website.

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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.

LEGH0002-05 (11-15)

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