

# 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 ISO3046-1:2002.

### **IND-A (Continuous)**

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

### **IND-B**

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

### **IND-C (Intermittent)**

Intermittent service where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

### **IND-D**

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

### **IND-E**

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

## **Rating Conditions**

### **Diesel Engines — up to 7.1 liter**

All rating conditions are based on ISO14396, 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 2016/1628 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

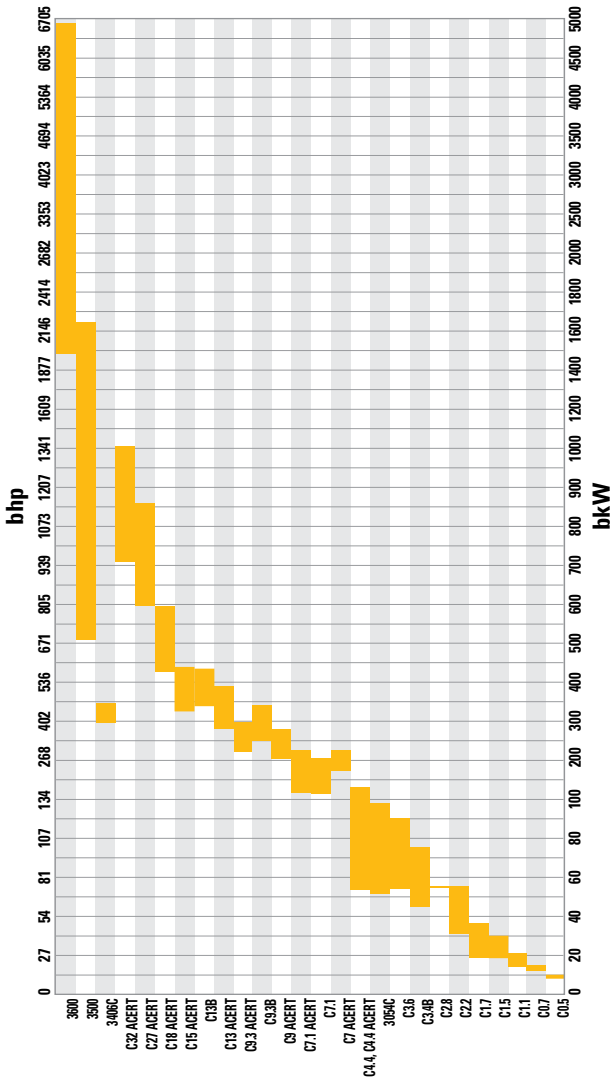
All nonroad U.S. EPA Tier 4 Interim and Final, EU Stage IIIB and IV, and Japan 2011 and 2014 diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less.

## 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 <sub>x</sub> 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 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 NO<sub>x</sub> Reduction System (NRS) maximizes engine power and fluid efficiency while lowering combustion temperatures and reducing NO<sub>x</sub> 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

	<b>C0.5 U.S. EPA Tier 4 Final, EU Stage V</b>	<b>C0.7 U.S. EPA Tier 4 Final, EU Stage V</b>
<b>Engine Configuration</b> ...	In-Line 2, Diesel. ....	In-Line 3, Diesel
<b>Bore x Stroke</b> .....	67 x 72 mm (2.6 x 2.8 in)..	67 x 72 mm (2.6 x 2.8 in)
<b>Displacement</b> .....	0.5 liters (31.0 in <sup>3</sup> ) .....	0.76 liters (46.4 in <sup>3</sup> )
<b>Ship Weight</b> .....	57 kg (126 lbs) .....	71 kg (156.5 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	407 mm (16.0 in) .....	480 mm (18.9 in)
<b>Width</b> .....	371 mm (14.6 in) .....	371 mm (14.6 in)
<b>Height</b> .....	523 mm (20.6 in) .....	528 mm (20.8 in)

### C0.5 U.S. EPA Tier 4 Final, EU Stage V Ratings

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

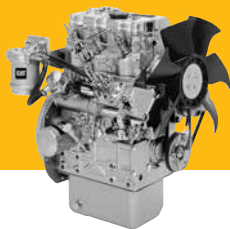
### C0.7 U.S. EPA Tier 4 Final, EU Stage V Ratings

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

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

# C1.1

## ENGINE



### Specifications

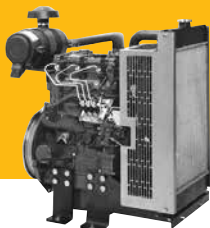
	<b>U.S. EPA Tier 4 Final, EU Stage V</b>
Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke . . . . .	77 x 81 mm (3.0 x 3.2 in)
Displacement . . . . .	1.1 liters (69 in <sup>3</sup> )
Ship Weight . . . . .	87 kg (191 lbs)
<b>Approximate Dimensions:</b>	
Length . . . . .	491 mm (19.3 in)
Width . . . . .	400 mm (15.7 in)
Height . . . . .	576 mm (22.7 in)

### U.S. EPA Tier 4 Final, EU Stage V Ratings

NA	C Rating (Intermittent)		rpm
	bkW Standard	bhp Standard	
	14.7	19.7	2200
	16.1	21.6	2400
	18.4	24.7	2800
<b>T</b>	18.4	24.7	2400

# 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 <sup>3</sup> )
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

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

### C1.1 Ratings

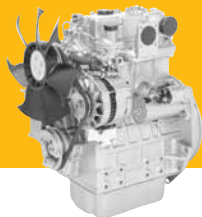
NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	19.7	26.4	3000

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 <sup>3</sup> )
Ship Weight . . . . .	149 kg (328.5 lbs) (NA) 156.5 kg (345 lbs) (T)
<b>Approximate Dimensions:</b>	
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
<b>NA</b>			
	18.4	24.7	2100*
<b>T</b>			
	18.4	24.7	1800*

\*Special application

### EU Stage IIIA Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
<b>NA</b>			
	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
<b>T</b>			
	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.

# C1.7

## ENGINE

### Specifications

#### C1.7 (Mechanical) U.S. EPA Tier 4 Final, EU Stage V

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke . . . . .	84 x 90 mm (3.3 x 3.5 in)
Displacement . . . . .	1.66 liters (101 in <sup>3</sup> )
Ship Weight . . . . .	190 kg (419 lbs) (NA) 195 kg (430 lbs) (T)

#### Approximate Dimensions:

Length . . . . .	582 mm (23.0 in) (NA, T)
Width . . . . .	480 mm (19.0 in) (NA) 518 mm (20.5 in) (T)
Height . . . . .	648 mm (25.5 in) (NA, T)

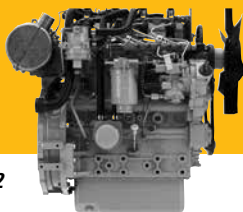
### U.S. EPA Tier 4 Final, EU Stage V Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	18.4	24.7	2400
T	18.4	24.7	2200

U.S. EPA Tier 4 Final Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.

# C1.7 | C2.2

## ENGINES



C2.2

### Specifications

	C1.7 (Electronic) U.S. EPA Tier 4 Final, EU Stage V	C2.2 (Electronic) U.S. EPA Tier 4 Final, EU Stage IIIB and Stage V
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 <sup>3</sup> )	2.2 liters (135 in <sup>3</sup> )
Ship Weight .....	190 kg (419 lbs)	230 kg (507 lbs)
<b>Approximate Dimensions:</b>		
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 Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	29	39	2800

### C1.7 EU Stage V Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	36	48	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

### C2.2 EU Stage V Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	45	60	2800

TA			
	55	74	2800

U.S. EPA Tier 4 Final, EU Stage IIIB Nonroad emission standards. Designed to meet EU Stage V 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*
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	408.4 mm (16.07 in) .....	408.4 mm (16.07 in)
<b>Weight</b> .....	5.8 kg (12.79 lbs) .....	5.8 kg (12.79 lbs)
<b>Diameter</b> .....	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

### Specifications

	C1.7 EU Stage V	C2.2 EU Stage V
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	442.6 mm (17.4 in) .....	442.6 mm (17.4 in)
<b>Weight</b> .....	8.6 kg (19 lbs) .....	8.6 kg (19 lbs)
<b>Diameter</b> .....	238.1 mm (9.4 in) .....	238.1 mm (9.4 in)

### Standard Emissions Control Equipment

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

# C1.7 | C2.2

## POWER UNIT

### Specifications

	<b>C1.7 (T) U.S. EPA Tier 4 Final</b>	<b>C2.2 U.S. EPA Tier 4 Final, EU Stage IIIB</b>
<b>Engine Configuration</b> . . .	In-Line 3, Diesel . . . . .	In-Line 4, Diesel
<b>Bore x Stroke</b> . . . . .	84 x 100 mm (3.3 x 3.9 in) . .	84 x 100 mm (3.3 x 3.9 in)
<b>Displacement</b> . . . . .	1.66 liters (101 in <sup>3</sup> ) . . . . .	2.2 liters (135 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	250.5 kg (552 lbs). . . . .	282.5 kg (622 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	808.8 mm (31.8 in) . . . . .	922.2 mm (36.3 in) (T)* 950.4 mm (37.4 in) (TA)
<b>Width</b> . . . . .	522.1 mm (20.5 in) . . . . .	598.2 mm (23.5 in) (T)* 586.5 mm (23.1 in) (TA)
<b>Height</b> . . . . .	912.4 mm (35.9 in) . . . . .	972.6 mm (38.2 in) (T)* 970 mm (38.1 in) (TA)

### C1.7 U.S. EPA Tier 4 Final Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	29	39	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
<b>TA</b>	50	67.1	2800

\*U.S. EPA Tier 4 Final only

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



# C2.8 ENGINE

## Specifications

	U.S. EPA Tier 4 Final	U.S. EPA Tier 4 Final, EU Stage V
<b>Engine Configuration</b> . . .	In-Line 4, Diesel . . . . .	In-Line 4, Diesel
<b>Bore x Stroke</b> . . . . .	90 x 110 mm (3.5 x 4.3 in) . . .	90 x 110 mm (3.5 x 4.3 in)
<b>Displacement</b> . . . . .	2.8 liters (171 in <sup>3</sup> ) . . . . .	2.8 liters (170 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	245 kg (540 lbs) . . . . .	320 kg (704 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	635 mm (25.0 in) . . . . .	633 mm (25.0 in)
<b>Width</b> . . . . .	561 mm (22.1 in) . . . . .	542 mm (21.4 in)
<b>Height</b> . . . . .	766 mm (30.1 in) . . . . .	785 mm (30.9 in)

### U.S. EPA Tier 4 Final

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	55	74	2200-2400

### U.S. EPA Tier 4 Final, EU Stage V Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	55	74	2200-2400

# C3.4B

## ENGINE



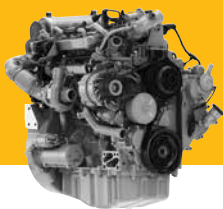
### Specifications

	<b>U.S. EPA Tier 4 Final, EU Stage IIIB &lt; 56 bkW (75 bhp)</b>
<b>Engine Configuration</b> . . . . .	In-Line 4, Diesel
<b>Bore x Stroke</b> . . . . .	99 x 110 mm (3.9 x 4.3 in)
<b>Displacement</b> . . . . .	3.4 liters (207.5 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	251 kg (553.4 lbs) (T)
<b>Approximate Dimensions:</b>	
<b>Length</b> . . . . .	610 mm (24.0 in)
<b>Width</b> . . . . .	662 mm (26.1 in)
<b>Height</b> . . . . .	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

	<b>U.S. EPA Tier 4 Final, EU Stage IV &gt; 56 bkW (75 bhp)</b>	<b>Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB &gt; 56 bkW (75 bhp)</b>
<b>Engine Configuration</b> . . .	In-Line 4, Diesel . . . . .	In-Line 4, Diesel
<b>Bore x Stroke</b> . . . . .	99 x 110 mm (3.9 x 4.3 in) . . .	99 x 110 mm (3.9 x 4.3 in)
<b>Displacement</b> . . . . .	3.4 liters (207.5 in <sup>3</sup> ) . . . . .	3.4 liters (207.5 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	251 kg (553.4 lbs) . . . . .	251 kg (553.4 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	610 mm (24.0 in) . . . . .	610 mm (24.0 in)
<b>Width</b> . . . . .	662 mm (26.1 in) . . . . .	662 mm (26.1 in)
<b>Height</b> . . . . .	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	—	—	—

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.

# C3.4B

## POWER UNIT



### Specifications

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

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

#### Approximate Dimensions:

	<b>Rear-Mounted Aftertreatment</b>	<b>Rear-Mounted Aftertreatment</b>
<b>Length</b> . . . . .	1252 mm (49.3 in) . . . . .	1242 mm (48.9 in)
<b>Width</b> . . . . .	705 mm (27.7 in) . . . . .	705 mm (27.7 in)
<b>Height</b> . . . . .	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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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 IV Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.

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

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

**Approximate Dimensions:**

	<b>Wall-Flow DPF</b>	<b>Through-Flow DPF</b>
<b>Length</b> .....	541 mm (21.3 in)	509 mm (20.0 in)
<b>Diameter</b> .....	180 mm (7.1 in)	149 mm (5.8 in)
<b>Weight</b> .....	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:**

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

**Standard Emissions Control Equipment**

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

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

**Approximate Dimensions:**

	<b>Wall-Flow DPF</b>
<b>Length</b> .....	541 mm (21.3 in)
<b>Diameter</b> .....	180 mm (7.1 in)
<b>Weight</b> .....	20 kg (44 lbs)

**Standard Emissions Control Equipment**

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

# C3.6

## ENGINE



### Specifications

	U.S. EPA Tier 4 Final, EU Stage V <56 kW (75 bhp)	U.S. EPA Tier 4 Final, EU Stage V >56 kW (75 bhp)
Engine Configuration . . .	In-Line 4, Diesel . . . . .	In-Line 4, Diesel
Bore x Stroke . . . . .	98 x 120 mm (3.9 x 4.7 in) . . .	98 x 120 mm (3.9 x 4.7 in)
Displacement . . . . .	3.6 liters (220 in <sup>3</sup> ) . . . . .	3.6 liters (220 in <sup>3</sup> )
Ship Weight . . . . .	373 kg (820 lbs) . . . . .	373 kg (820 lbs)
<b>Approximate Dimensions:</b>		
Length . . . . .	667 mm (26.3 in) . . . . .	667 mm (26.3 in)
Width . . . . .	564 mm (22.2 in) . . . . .	564 mm (22.2 in)
Height . . . . .	787 mm (31.0 in) . . . . .	787 mm (31.0 in)

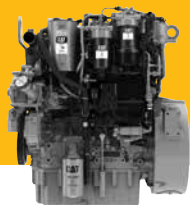
### U.S. EPA Tier 4 Final, EU Stage V Ratings <56 kW (75 bhp)

TA	C Rating (Intermittent)		
	bkW	bhp	rpm
	55	74	2200-2400

### U.S. EPA Tier 4 Final, EU Stage V Ratings >56 kW (75 bhp)

TA	C Rating (Intermittent)		
	bkW	bhp	rpm
	74	100	2000-2400
	82	110	2000-2400
	86	115	2000-2400
	90	121	2000-2400





# C4.4 ACERT

## ENGINE

### Specifications

#### U.S. EPA Tier 4 Final, EU Stage IV and Stage V

<b>Engine Configuration</b> . . .	In-Line 4, Diesel
<b>Bore x Stroke</b> . . . . .	105 x 127 mm (4.1 x 5.0 in)
<b>Displacement</b> . . . . .	4.4 liters (268.5 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	400 kg (881.8 lbs) (TA) 420 kg (926 lbs) (TTA)

#### Approximate Dimensions:

<b>Length</b> . . . . .	845.1 mm (33.3 in) (TA, TTA)
<b>Width</b> . . . . .	772.4 mm (30.4 in) (TA) 741.6 mm (29.1 in) (TTA)
<b>Height</b> . . . . .	848.2 mm (33.4 in) (TA) 867.6 mm (34.1 in) (TTA)

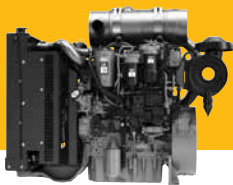
### U.S. EPA Tier 4 Final, EU Stage IV and Stage V Ratings

	B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
<b>TA</b>									
	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	—	—	—
<b>TTA</b>									
	105.0	140.8	2200	117.0	156.9	2200	150.0	201.0	2200
	112.0	150.0	2200	129.4	173.5	2200	—	—	—
	—	—	—	140.0	188.0	2200	—	—	—

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.

# C4.4 ACERT

## POWER UNIT



### Specifications

	<b>U.S. EPA Tier 4 Final, EU Stage IV</b>	<b>Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB</b>
<b>Engine Configuration</b>	In-Line 4, Diesel	In-Line 4, Diesel
<b>Bore x Stroke</b>	105 x 127 mm (4.1 x 5.0 in)	105 x 127 mm (4.1 x 5.0 in)
<b>Displacement</b>	4.4 liters (268.5 in <sup>3</sup> )	4.4 liters (268.5 in <sup>3</sup> )
<b>Ship Weight</b>	670 kg (1477 lbs) (TA) 700 kg (1543 lbs) (TTA)	650 kg (1433 lbs) (TA) 700 kg (1543 lbs) (TTA)
<b>Approximate Dimensions:</b>		
<b>Length</b>	1433 mm (56.4 in) (TA, TTA) 1455 mm (57.3 in) (TTA)	1433 mm (56.4 in) (TA)
<b>Width</b>	820 mm (32.3 in) (TA) 870 mm (34.3 in) (TTA)	820 mm (32.3 in) (TA) 795 mm (31.3 in) (TTA)
<b>Height</b>	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>B Rating</b>			<b>C Rating (Intermittent)</b>		
	<b>bkW</b>	<b>bhp</b>	<b>rpm</b>	<b>bkW</b>	<b>bhp</b>	<b>rpm</b>
<b>TA</b>	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
<b>TTA</b>	—	—	—	117.0	157.0	2200
	—	—	—	129.4	173.5	2200

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.



# C4.4 ACERT

## AFTERTREATMENT

### Specifications

	U.S. EPA Tier 4 Final, EU Stage IV ≤ 92.6 bkW (124.2 bhp) DOC/SCR	U.S. EPA Tier 4 Final, EU Stage IV > 92.6 bkW (124.2 bhp) DOC/SCR	U.S. EPA Tier 4 Final, EU Stage IV DPF/SCR (TTA only)
<b>Approximate Dimensions:</b>			
<b>Length</b> . . . . .	647 mm (25.5 in) . . . . .	675 mm (25.6 in) . . . . .	722 mm (28.4 in)
<b>Width</b> . . . . .	538 mm (21.18 in) . . . . .	565 mm (22.2 in) . . . . .	695 mm (27.4 in)
<b>Height</b> . . . . .	335 mm (13.19 in) . . . . .	355 mm (13.97 in) . . . . .	430 mm (16.9 in)
<b>Weight</b> . . . . .	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 Final, EU Stage V DOC/DPF/SCR 82-130 bkW (110-174 bhp)	U.S. EPA Tier 4 Final, EU Stage V DOC/DPF/SCR 105-150 bkW (141-201 bhp)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	675 mm (25.6 in) . . . . .	680 mm (26.8 in)
<b>Width</b> . . . . .	565 mm (22.2 in) . . . . .	650 mm (25.6 in)
<b>Height</b> . . . . .	355 mm (13.97 in) . . . . .	460 mm (18.1 in)
<b>Weight</b> . . . . .	45 kg (99 lbs) . . . . .	50 kg (110 lbs)

### Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
  - **DOC:** Diesel Oxidation Catalyst
  - **DPF:** Diesel Particulate Filter
- **SCR:** Selective Catalytic Reduction

# C7.1 ACERT

## ENGINE



### Specifications

	<b>U.S. EPA Tier 4 Final, EU Stage IV and Stage V</b>
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke . . . . .	105 x 135 mm (4.1 x 5.3 in)
Displacement . . . . .	7.0 liters (427.7 in <sup>3</sup> )
Ship Weight . . . . .	715 kg (1576 lbs)
<b>Approximate Dimensions:</b>	
Length . . . . .	1063.7 mm (41.9 in) (TTA)
Width . . . . .	753 mm (29.6 in) (TA)
	820.2 mm (32.3 in) (TTA)
Height . . . . .	907 mm (35.7 in) (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	2200
	129.0	173.0	2200	—	—	—
<b>TTA (ATAAC)</b>						
	151.0	202.0	2200	186.0	249.0	2200
	168.0	225.0	2200	205.0	275.0	2200
	—	—	—	225.0	302.0	2200

### U.S. EPA Tier 4 Final, EU Stage V Ratings

TA (ATAAC)	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	129.0	173.0	1800-2000			
	151.0	202.0	1800-2200			
<b>TTA (ATAAC)</b>						
	151.0	202.0	1800-2000	239.0	321.0	2200
	168.0	225.0	1800-2000	—	—	—
	186.0	249.0	1800-2000	—	—	—
	205.0	275.0	2200	—	—	—
	225.0	302.0	2200	—	—	—

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.

# C7.1 ACERT

## POWER UNIT



### Specifications

	<b>U.S. EPA Tier 4 Final, EU Stage IV</b>
<b>Engine Configuration</b> . . .	In-Line 6, Diesel
<b>Bore x Stroke</b> . . . . .	105 x 135 mm (4.13 x 5.3 in)
<b>Displacement</b> . . . . .	7.0 liters (427.7 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	1000 kg (2204.0 lbs)
<b>Approximate Dimensions:</b>	
<b>Length</b> . . . . .	1461 mm (57.5 in)
<b>Width</b> . . . . .	1769 mm (69.6 in)
<b>Height</b> . . . . .	916 mm (36.1 in)

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

TTA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	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

# C7.1 ACERT

## AFTERTREATMENT



### Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	PETU Configuration
<b>Approximate Dimensions:</b>		
Length.....	771 mm (30.4 in)	610 mm (24.0 in)
Width.....	793 mm (31.2 in)	459 mm (18.0 in)
Height.....	468 mm (18.4 in)	280 mm (11.0 in)

### Standard Emissions Control Equipment

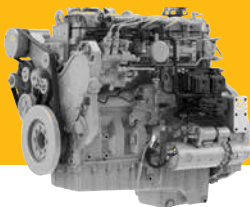
- **CEM:** Clean Emissions Module, including:
  - **DOC:** Diesel Oxidation Catalyst
  - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction
- 3" flex pipe connection kit with straight, 45°, and 90° options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

### Specifications

	U.S. EPA Tier 4 Final, EU Stage V TA	TTA
<b>Approximate Dimensions</b>		
Length.....	680 mm (26.8 in)	771 mm (30.4 in)
Width.....	650 mm (25.6 in)	793 mm (31.2 in)
Height.....	460 mm (18.1 in)	468 mm (18.4 in)
Weight.....	50 kg (110 lbs)	

### Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
  - **DOC:** Diesel Oxidation Catalyst
  - **DPF:** Diesel Particulate Filter
- **SCR:** Selective Catalytic Reduction



# C9.3B

## ENGINE

### Specifications

#### U.S. EPA Tier 4 Final, EU Stage V

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke . . . . .	115 x 149 mm (4.53 x 5.87 in)
Displacement . . . . .	9.3 liters (567.5 in <sup>3</sup> )
Ship Weight . . . . .	865 kg (1907 lbs)

#### Approximate Dimensions:

Length . . . . .	1125 mm (44.3 in)
Width . . . . .	791 mm (31.1 in)
Height . . . . .	1068 mm (42.0 in)

### U.S. EPA Tier 4 Final, EU Stage V Ratings

	A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA	250	335	1800- 2200	280	376	1800- 2200	310	416	1800- 2200	340	456	1800- 2000
	—	—	—	—	—	—	—	—	—	326	437	2200

U.S. EPA Tier 4 Final Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.

# C9.3B

## POWER UNIT



### Specifications

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

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke . . . . .	115 x 149 mm (4.53 x 5.87 in)
Displacement . . . . .	9.3 liters (567.5 in <sup>3</sup> )
Ship Weight . . . . .	1499 kg (3305 lbs)

**Approximate Dimensions:**

Length . . . . .	1731 mm (68.1 in)
Width . . . . .	1162 mm (45.7 in)
Height . . . . .	1566 mm (61.6 in)

### U.S. EPA Tier 4 Final, EU Stage V Ratings

	A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA	250	335	1800- 2200	280	376	1800- 2200	310	416	1800- 2200	340	456	1800- 2000
	—	—	—	—	—	—	—	—	—	325	436	2200

U.S. EPA Tier 4 Final Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.





# C9.3B

## AFTERTREATMENT

### Specifications

U.S. EPA Tier 4 Final  
EU Stage V

**Approximate Dimensions:**

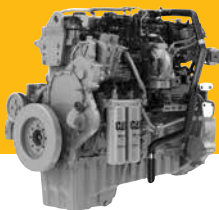
<b>Length</b> .....	925 mm (36.4 in)
<b>Width</b> .....	694 mm (27.3 in)
<b>Height</b> .....	432 mm (17.0 in)
<b>Weight</b> .....	96 kg (211 lbs)

### Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
  - **DOC:** Diesel Oxidation Catalyst
  - **DPF:** Diesel Particulate Filter
- **SCR:** Selective Catalytic Reduction
- **PETU:** Pump Electronic Tank Unit

# C9.3 ACERT

## ENGINE



### Specifications

	U.S. EPA Tier 4 Final, EU Stage IV	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
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 <sup>3</sup> ) .....	9.3 liters (567.5 in <sup>3</sup> )
Ship Weight .....	885 kg (1950 lbs) .....	885 kg (1950 lbs)
<b>Approximate Dimensions:</b>		
Length.....	1134 mm (45.0 in) .....	1134 mm (45.0 in)
Width .....	1025 mm (40.0 in) .....	1025 mm (40.0 in)
Height.....	1072 mm (42.0 in) .....	1072 mm (42.0 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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.



# C9.3 ACERT

## POWER UNIT

### Specifications

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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under 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)
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	924 mm (36.0 in) .....	854 mm (33.6 in)
<b>Width</b> .....	867 mm (34.0 in) .....	287 mm (11.3 in)
<b>Height</b> .....	570 mm (22.0 in) .....	551 mm (21.7 in)
<b>Weight</b> .....	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

#### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB

<b>Approximate Dimensions:</b>	
<b>Length</b> .....	924 mm (36.0 in)
<b>Width</b> .....	867 mm (34.0 in)
<b>Height</b> .....	392 mm (15.5 in)
<b>Weight</b> .....	130 kg (287 lbs)
<b>Diameter</b> .....	305 mm (12.0 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 and Stage V	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
<b>Engine Configuration</b> . . . . .	In-Line 6, Diesel . . . . .	In-Line 6, Diesel
<b>Bore x Stroke</b> . . . . .	130 x 157 mm (5.1 x 6.2 in) . . .	130 x 157 mm (5.1 x 6.2 in)
<b>Displacement</b> . . . . .	12.5 liters (762.8 in <sup>3</sup> ) . . . . .	12.5 liters (762.8 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	1143 kg (2520 lbs) . . . . .	1143 kg (2520 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	1274 mm (50.0 in) . . . . .	1274 mm (50.0 in)
<b>Width</b> . . . . .	994 mm (39.0 in) . . . . .	975 mm (38.0 in)
<b>Height</b> . . . . .	1134 mm (45.0 in) . . . . .	1191 mm (47.0 in)

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

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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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
<b>TA (ATAAC)</b>	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. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.

# C13 ACERT

## POWER UNIT



### Specifications

	U.S. EPA Tier 4 Final, EU Stage IV and Stage V	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
<b>Engine Configuration</b> . . .	In-Line 6, Diesel . . . . .	In-Line 6, Diesel
<b>Bore x Stroke</b> . . . . .	130 x 157 mm (5.1 x 6.18 in) . . .	130 x 157 mm (5.1 x 6.18 in)
<b>Displacement</b> . . . . .	12.5 liters (762.8 in <sup>3</sup> ) . . . . .	12.5 liters (762.8 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	2085 kg (4596 lbs) . . . . .	2304 kg (5080 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	2122 mm (83.5 in) . . . . .	2085 mm (82.1 in)
<b>Width</b> . . . . .	1247 mm (49.0 in) . . . . .	1157 mm (45.6 in)
<b>Height</b> . . . . .	1928 mm (75.9 in) . . . . .	2082 mm (81.9 in)

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

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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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
<b>TA (ATAAC)</b>	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. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.



# C13 ACERT

## AFTERTREATMENT

### Specifications

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

	Standard Cat Regeneration System Configuration	PETU Configuration* up to 99 L (104.6 U.S. qt)
<b>Approximate Dimensions:</b>		
Length.....	1059 mm (42.0 in)	854 mm (33.6 in)
Width.....	1049 mm (41.0 in)	287 mm (11.3 in)
Height.....	654 mm (26.0 in)	551 mm (21.7 in)
Weight.....	248-259 kg (547-571 lb)*	19.42 kg (42.8 lbs)
<b>Standard Passive Regeneration Configuration</b>		
Length.....	974.8 mm (38.4 in)	
Width.....	958.3 mm (37.7 in)	
Height.....	547.2 mm (21.5 in)	
Weight.....	140 kg (308.6 lb)	

\*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

Passive Regeneration option available based on application. Please contact your Cat dealer for more information.

### Specifications

#### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB

<b>Approximate Dimensions:</b>		
Length.....	1047 mm (41.0 in)	<b>Weight</b> ..... 180 kg (397 lbs)
Width.....	784 mm (31.0 in)	<b>Diameter</b> ..... 330 mm (13.0 in)
Height.....	451 mm (18.0 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

# C13B

## ENGINE

### Specifications

#### U.S. EPA Tier 4 Final, EU Stage V

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke . . . . .	130 x 157 mm (5.1 x 6.2 in)
Displacement . . . . .	12.5 liters (762.8 in <sup>3</sup> )
Ship Weight . . . . .	1125 kg (2480 lbs)

#### Approximate Dimensions:

Length . . . . .	1274 mm (50.0 in)
Width . . . . .	994 mm (39.0 in)
Height . . . . .	1134 mm (45.0 in)

### U.S. EPA Tier 4 Final, EU Stage V 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)	340	456	1800-	370	496	1800-	400	536	1800-	430	577	1800-
			2100			2100			2100			2100

U.S. EPA Tier 4 Final, Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.



# C13B

## POWER UNIT

### Specifications

	<b>U.S. EPA Tier 4 Final, EU Stage V</b>
<b>Engine Configuration</b> . . .	In-Line 6, Diesel
<b>Bore x Stroke</b> . . . . .	130 x 157 mm (5.1 x 6.2 in)
<b>Displacement</b> . . . . .	12.5 liters (762.8 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	1933 kg (4261 lbs)
<b>Approximate Dimensions:</b>	
<b>Length</b> . . . . .	2122 mm (84.0 in)
<b>Width</b> . . . . .	1247 mm (49.0 in)
<b>Height</b> . . . . .	1853 mm (73.0 in)

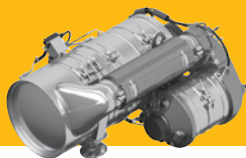
### U.S. EPA Tier 4 Final, EU Stage V Ratings

	A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
<b>TA (ATAAC)</b>	340	456	1800-	370	496	1800-	400	536	1800-	430	577	1800-
			2100			2100			2100			2100

U.S. EPA Tier 4 Final, Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards.

# C13B

## AFTERTREATMENT



### Specifications

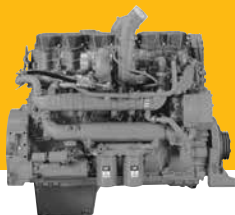
U.S. EPA Tier 4 Final  
EU Stage V

**Approximate Dimensions:**

<b>Length</b> .....	894 mm (35.0 in)
<b>Width</b> .....	796 mm (31.0 in)
<b>Height</b> .....	530 mm (21.0 in)
<b>Weight</b> .....	125 kg (275 lbs)

### Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
  - **DOC:** Diesel Oxidation Catalyst
  - **DPF:** Diesel Particulate Filter
- **SCR:** Selective Catalytic Reduction
- **PETU:** Pump Electronic Tank Unit



# C15 ACERT

## ENGINE

### Specifications

	<b>U.S. EPA Tier 4 Final, EU Stage IV and Stage V</b>	<b>Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB</b>
<b>Engine Configuration</b> . . .	In-Line 6, Diesel . . . . .	In-Line 6, Diesel
<b>Bore x Stroke</b> . . . . .	137 x 171 mm (5.4 x 6.73 in) . . .	137 x 171 mm (5.4 x 6.73 in)
<b>Displacement</b> . . . . .	15.2 liters (927.6 in <sup>3</sup> ) . . . . .	15.2 liters (927.6 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	1542 kg (3395.5 lbs) . . . . .	1666 kg (3673 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	1439 mm (57.0 in) . . . . .	1449 mm (57.0 in)
<b>Width</b> . . . . .	955 mm (38.0 in) . . . . .	930 mm (37.0 in)
<b>Height</b> . . . . .	1248 mm (49.0 in) . . . . .	1242 mm (49.0 in)

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

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

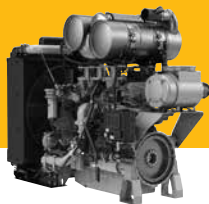
### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB Ratings

	<b>A Rating (Continuous)</b>			<b>B Rating</b>			<b>C Rating (Intermittent)</b>			<b>D Rating</b>		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
<b>TA (ATAAC)</b>	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. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.

# C15 ACERT

## POWER UNIT



### Specifications

	U.S. EPA Tier 4 Final, EU Stage IV and Stage V	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
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 <sup>3</sup> ) . . . . .	15.2 liters (927.6 in <sup>3</sup> )
Ship Weight . . . . .	2650 kg (5842 lbs) . . . . .	2113 kg (4658 lbs)
<b>Approximate Dimensions:</b>		
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 and Stage V

	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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.



# C15 ACERT

## AFTERTREATMENT

### Specifications

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

	IND-A & IND-B Ratings	IND-C & IND-D Ratings	PETU Configuration* up to 99 L (104.6 U.S. qt)
<b>Approximate Dimensions:</b>			
<b>Length</b> .....	1059 mm (42.0 in).....	1428 mm (56.0 in).....	854 mm (33.6 in)
<b>Width</b> .....	1049 mm (41.0 in).....	1152 mm (45.0 in).....	287 mm (11.3 in)
<b>Height</b> .....	645 mm (26.0 in).....	652 mm (25.7 in).....	551 mm (21.7 in)
<b>Weight</b> ....	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

	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
<b>Approximate Dimensions:</b>	
<b>Length</b> .....	1047 mm (41.0 in)
<b>Width</b> .....	784 mm (31.0 in)
<b>Height</b> .....	451 mm (18.0 in)
<b>Weight</b> .....	180 kg (397 lbs)
<b>Weight</b> .....	330 mm (13.0 in)

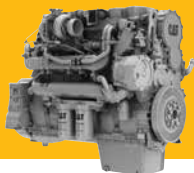
Multiple customizable configuration options available

### 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 and Stage V	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
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 <sup>3</sup> )	18.1 liters (1104.5 in <sup>3</sup> )
Ship Weight	1542 kg (3399.5 lbs)	1580-1717 kg (3583-3785 lbs)
<b>Approximate Dimensions:</b>		
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 and Stage V 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, EU Stage V Ratings

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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB 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

### Equivalent to U.S. EPA Tier 4 Interim 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. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under 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 and Stage V	Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB
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 <sup>3</sup> ) . . . . .	18.1 liters (1104.5 in <sup>3</sup> )
Ship Weight . . . . .	2650 kg (5842 lbs) . . . . .	2113 kg (4658 lbs)
<b>Approximate Dimensions:</b>		
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 and Stage V Ratings

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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB Ratings

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

U.S. EPA Tier 4 Final, EU Stage IV Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions.

# C18 ACERT

## AFTERTREATMENT



### Specifications

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

	Standard Configuration	PETU Configuration* up to 99 L (104.6 U.S. qt)
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	1428 mm (56.0 in) .....	854 mm (33.6 in)
<b>Width</b> .....	1152 mm (45.0 in) .....	287 mm (11.3 in)
<b>Height</b> .....	652 mm (25.7 in) .....	551 mm (21.7 in)
<b>Weight</b> .....	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

#### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB

#### Approximate Dimensions:

<b>Length</b> .....	1047 mm (41.0 in)
<b>Width</b> .....	784 mm (31.0 in)
<b>Height</b> .....	451 mm (18.0 in)
<b>Weight</b> .....	180 kg (397 lbs)
<b>Diameter</b> .....	330.2 mm (13.0 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 <sup>3</sup> )
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
<b>Tier 2</b>	—	—	597	800	597	800	597	800
<b>Tier 3</b>	—	—	522	700	522	700	522	700
	—	—	447	600	447	600	447	600

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

# C27 ACERT

## ENGINE



### Specifications

	U.S. EPA Tier 4 Final	Equivalent to U.S. EPA Tier 4 Interim
<b>Engine Configuration</b> . . .	V-12, Diesel. . . . .	V-12, Diesel
<b>Bore x Stroke</b> . . . . .	137.2x152.4 mm (5.4x6.0 in) . . .	137.2x152.4 mm (5.4x6.0 in)
<b>Displacement</b> . . . . .	27 liters (1649.5 in <sup>3</sup> ) . . . . .	27 liters (1649.5 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	3004 kg (6625 lbs) . . . . .	3004 kg (6625 lbs)
<b>Approximate Dimensions (engine only):</b>		
<b>Length</b> . . . . .	1874 mm (73.8 in) . . . . .	1874 mm (73.8 in)
<b>Width</b> . . . . .	1600 mm (63.0 in) . . . . .	1600 mm (63.0 in)
<b>Height</b> . . . . .	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

### Equivalent to U.S. EPA Tier 4 Interim 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

Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under 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, EU Stage V	Equivalent to U.S. EPA Tier 4 Interim
Engine Configuration ...	V-12, Diesel	V-12, Diesel
Bore x Stroke .....	145.0x162 mm (5.71x6.38 in) ..	145.0x162 mm (5.71x6.38 in)
Displacement .....	32.1 liters (1959 in <sup>3</sup> ) .....	32.1 liters (1959 in <sup>3</sup> )
Ship Weight .....	3004 kg (6625 lbs) .....	3004 kg (6625 lbs)
<b>Approximate Dimensions (engine only):</b>		
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

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

### EU Stage V Ratings

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

### Equivalent to U.S. EPA Tier 4 Interim Ratings

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

U.S. EPA Tier 4 Final Nonroad emission standards. Designed to meet EU Stage V Nonroad emission standards. Ratings equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIB are available under Flex provisions. Nonroad engines greater than 560 bkW (750 bhp) are not currently subject to EU emission standards.

# C27 ACERT | C32 ACERT

## AFTERTREATMENT



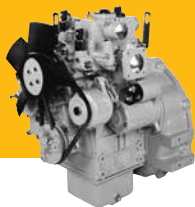
### Specifications

#### U.S. EPA Tier 4 Final, EU Stage V

	Remote CEMs (2 required)	Engine-mounted CEM
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	1156 mm (45.5 in) .....	1148 mm (45.2 in)
<b>Width</b> .....	406.6 mm (16.0 in).....	1090 mm (42.9 in)
<b>Height</b> .....	439 mm (17.3 in) .....	436 mm (17.2 in)
<b>Weight</b> .....	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

# C0.5 | C0.7

## ENGINES

### Specifications

	<b>C0.5 Equivalent to U.S. EPA Tier 4 Interim</b>	<b>C0.7 Equivalent to U.S. EPA Tier 4 Interim</b>
<b>Engine Configuration</b> . . .	In-Line 2, Diesel . . . . .	In-Line 3, Diesel
<b>Bore x Stroke</b> . . . . .	67 x 72 mm (2.6 x 2.8 in) . . . . .	67 x 72 mm (2.6 x 2.8 in)
<b>Displacement</b> . . . . .	0.5 liters (31 in <sup>3</sup> ) . . . . .	0.76 liters (46.4 in <sup>3</sup> )
<b>Ship Weight (NA)</b> . . . . .	57 kg (126 lbs) . . . . .	71 kg (156.5 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	407 mm (16.0 in) . . . . .	480 mm (18.9 in)
<b>Width</b> . . . . .	371 mm (14.6 in) . . . . .	371 mm (14.6 in)
<b>Height</b> . . . . .	523 mm (20.6 in) . . . . .	528 mm (20.8 in)

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

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

Equivalent to U.S. EPA Tier 4 Interim Nonroad. (Does not meet current EPA emission standards). Available for lesser-regulated areas.

# C1.1 | C1.5

## ENGINES

C1.1



### Specifications

	C1.1 U.S. Equivalent to U.S. EPA Tier 4 Interim	C1.5 U.S. Equivalent to U.S. EPA Tier 4 Interim
<b>Engine Configuration</b> . . .	In-Line 3, Diesel . . . . .	In-Line 3, Diesel
<b>Bore x Stroke</b> . . . . .	77 x 81 mm (3.0 x 3.2 in) . . . . .	84 x 90 mm (3.3 x 3.5 in)
<b>Displacement</b> . . . . .	1.1 liters (69 in <sup>3</sup> ) . . . . .	1.496 liters (91 in <sup>3</sup> )
<b>Ship Weight (NA)</b> . . . . .	87 kg (191 lbs) . . . . .	149 kg (328 lbs) (NA) 156.5 kg (345 lbs) (T)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	491 mm (19.33 in) . . . . .	572 mm (22.5 in) (NA, T)
<b>Width</b> . . . . .	400 mm (15.7 in) . . . . .	453 mm (17.8 in) (NA) 512 mm (20.2 in) (T)
<b>Height</b> . . . . .	576 mm (22.7 in) . . . . .	643 mm (25.3 in) (NA, T)

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

NA	C Rating (Intermittent)		rpm
	Std/Derate bkW	Std/Derate bhp	
	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 Equivalent to U.S. EPA Tier 4 Interim Ratings

NA	C Rating (Intermittent)		rpm
	Std/Derate bkW	Std/Derate 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
<b>T</b>			
	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

Equivalent to U.S. EPA Tier 4 Interim Nonroad. (Does not meet current EPA emission standards). Available for lesser-regulated areas.

# C1.1 | C1.5

## POWER UNITS

### Specifications

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

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

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

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

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

Equivalent to U.S. EPA Tier 4 Interim Nonroad. (Does not meet current EPA emission standards). Available for lesser regulated areas.

# C1.7

## ENGINE

### Specifications

	Equivalent to U.S. EPA Tier 4 Interim
<b>Engine Configuration</b> . . .	In-Line 3, Diesel
<b>Bore x Stroke</b> . . . . .	84 x 100 mm (3.3 x 3.9 in)
<b>Displacement</b> . . . . .	1.66 liters (101 in <sup>3</sup> )
<b>Ship Weight (NA)</b> . . . . .	160 kg (352.7 lbs)
<b>Approximate Dimensions:</b>	
<b>Length</b> . . . . .	564 mm (22.2 in)
<b>Width</b> . . . . .	453 mm (17.8 in)
<b>Height</b> . . . . .	654 mm (25.7 in)

### Equivalent to U.S. EPA Tier 4 Interim Ratings

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

Equivalent to U.S. EPA Tier 4 Interim Nonroad. (Does not meet current EPA emission standards). Available for lesser regulated areas.



# C2.2

## ENGINE



### Specifications

**Equivalent to U.S. EPA Tier 4  
Interim and EU Stage IIIA**

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

#### Approximate Dimensions:

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

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIA 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
<b>T</b>			
	40 / 36.3	53.3 / 48.7	2800
	43.0	57.7	2600
	44.7	60.0	2800
	45.5	61.0	3000
<b>TA (ATAAC)</b>			
	49.3	66.1	2800

Equivalent to U.S. EPA Tier 4 Interim Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C2.2

## POWER UNIT

### Specifications

#### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIA

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 <sup>3</sup> )
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)

### Equivalent to U.S. EPA Tier 4 Interim and EU Stage IIIA Ratings

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

Equivalent to U.S. EPA Tier 4 Interim Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.



# C2.8

## ENGINE

### Specifications

**Equivalent to U.S. EPA Tier 3  
and EU Stage IIIA**

<b>Engine Configuration</b> . . . . .	In-Line 4, Diesel
<b>Bore x Stroke</b> . . . . .	90 x 110 mm (3.5 x 4.3 in)
<b>Displacement</b> . . . . .	2.8 liters (170 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	320 kg (704 lbs)

**Approximate Dimensions:**

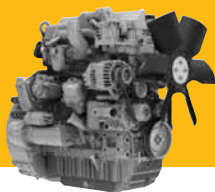
<b>Length</b> . . . . .	633 mm (25.0 in)
<b>Width</b> . . . . .	542 mm (21.4 in)
<b>Height</b> . . . . .	785 mm (30.9 in)

### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	55.0	74.0	2200-2400

# C3.6

## ENGINE



### Specifications

#### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA

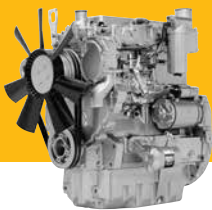
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke . . . . .	98 x 120 mm (3.9 x 4.7 in)
Displacement . . . . .	3.6 liters (220 in <sup>3</sup> )
Ship Weight . . . . .	373 kg (820 lbs)

#### Approximate Dimensions:

Length . . . . .	667 mm (26.3 in)
Width . . . . .	564 mm (22.2 in)
Height . . . . .	787 mm (31.0 in)

### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

TA	C Rating (Intermittent)		
	bkW	bhp	rpm
	55.0	74.0	2200-2400
	74.0	100.0	2000-2400
	82.0	110.0	2000-2400
	86.0	115.0	2000-2400
	90.0	121.0	2000-2400



# 3054C

## ENGINE

### Specifications

Equivalent to U.S. EPA Tier 2  
and EU Stage II

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 <sup>3</sup> )
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)

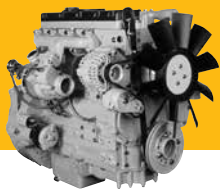
### Equivalent to U.S. EPA Tier 2 and EU Stage II Ratings

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

Equivalent to U.S. EPA Tier 2 Interim Nonroad and EU Stage II Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C4.4

## ENGINE



### Specifications

#### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA

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 <sup>3</sup> )
Ship Weight . . . . .	291 kg (640 lbs) (NA) 306 kg (674.6 lbs) (T, TA)

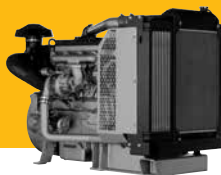
#### Approximate Dimensions:

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)

### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

NA	kW	C Rating (Intermittent)	
		bhp	rpm
	54.0-56.0	72.4-75.0	2200
T	55.5-74.5	74.4-99.9	2200-2400
TA (ATAAC)	68.0-83.0	91.2-111.3	2200-2300

Equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.



# C4.4

## POWER UNIT

### Specifications

**Equivalent to U.S. EPA Tier 3  
and EU Stage IIIA**

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

**Approximate Dimensions:**

<b>Length</b> . . . . .	1260 mm (49.6 in)
<b>Width</b> . . . . .	734 mm (28.9 in)
<b>Height</b> . . . . .	964 mm (38.0 in)

### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

T	bkW	C Rating (Intermittent)	
		bhp	rpm
	61.0-68.0	81.8-91.0	2200
<b>TA (ATAAC)</b>			
	74.5-81.0	99.9-108.6	2200

Equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C4.4 ACERT

## ENGINE



### Specifications

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

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

T	bkW	C Rating (Intermittent)	
		bhp	rpm
	68.0-74.5	91.2-99.9	2200
TA (ATAAC)	74.5-106.0	99.5-142.0	2200

Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.





# C4.4 ACERT

## POWER UNIT

### Specifications

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

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

**Approximate Dimensions:**

<b>Length</b> . . . . .	1358 mm (53.5 in)
<b>Width</b> . . . . .	746 mm (29.4 in)
<b>Height</b> . . . . .	963 mm (37.9 in)

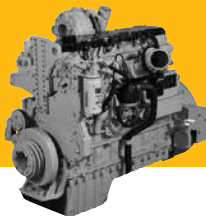
### China Stage III Nonroad, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

TA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
	96.5-106.0	129.4-142.1	2200

Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C7 ACERT

## ENGINE



### Specifications

**Equivalent to U.S. EPA Tier 3  
and EU Stage IIIA**

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

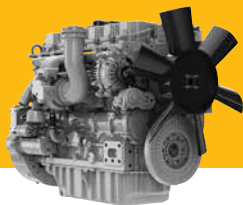
**Approximate Dimensions:**

<b>Length</b> . . . . .	1053 mm (41.5 in)
<b>Width</b> . . . . .	758 mm (29.8 in)
<b>Height</b> . . . . .	1032 mm (40.6 in)

### Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings

	B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
<b>TA (ATAAC)</b>									
	168.0	225.0	1800-2200	187.0	250.0	1800-2200	224.0	300.0	2100-2200
	—	—	—	205.0	275.0	1800-2200	—	—	—

Equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.



# C7.1

## ENGINE

### Specifications

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

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

**Approximate Dimensions:**

<b>Length</b> . . . . .	1074.3 mm (42.3 in)
<b>Width</b> . . . . .	721.1 mm (28.4 in)
<b>Height</b> . . . . .	823.9 mm (32.4 in)

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

TA	C Rating (Intermittent)		
	bkW	bhp	rpm
	112.0	150.0	2200
	129.0	172.0	2000
	118.0	158.0	2000

Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C7.1

## ENGINE



### Specifications

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

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 <sup>3</sup> )
Ship Weight . . . . .	506 kg (1115.5 lbs)

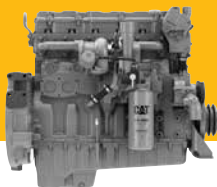
#### Approximate Dimensions:

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

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

TA	bkW	C Rating (Intermittent)	
		bhp	rpm
	116.0	156.0	2200
	129.0	173.0	2200-2500
	151.0	202.0	2200
	168.0	225.0	2200
	186.0	250.0	2200
	205.0	275.0	2200

Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.



# C9 ACERT

## ENGINE

### Specifications

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

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 <sup>3</sup> )
Ship Weight . . . . .	864 kg (1905 lbs)

**Approximate Dimensions:**

Length . . . . .	1091 mm (43.0 in)
Width . . . . .	827 mm (32.6 in)
Height . . . . .	1023 mm (40.3 in)

### China Stage III Nonroad, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA 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
	205.0	275.0	1800-2200	224.0	300.0	1800-2200	242.0	325.0	1800-2200	280.0	375.0	1800-2200
	—	—	—	—	—	—	261.0	350.0	1800-2200			

### Equivalent to U.S. EPA Tier 2 and EU Stage II Ratings\*\*

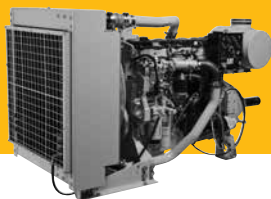
TA (ATAAC)	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	224.0	300.0	1800-2200	261.0	350.0	1800-2200

\*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.

\*\*Equivalent to U.S. EPA Tier 2 Nonroad and EU Stage II Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C9 ACERT

## POWER UNIT



### Specifications

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

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke . . . . .	112 x 149 mm (4.41 x 5.87 in)
Displacement . . . . .	8.8 liters (537.0 in <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings\*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	205.0	275.0	1800-2200	224.0	300.0	1800-2200	242.0	325.0	1800-2200
	—	—	—	—	—	—	261.0	350.0	1800-2200

### Equivalent to U.S. EPA Tier 2 and EU Stage II Ratings\*\*

TA (ATAAC)	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	224.0	300.0	1800-2200	261.0	350.0	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.

\*\*Equivalent to U.S. EPA Tier 2 Nonroad and EU Stage II Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.



# C13 ACERT

## ENGINE

### Specifications

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

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA 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)														
287	385	1800-2100	310	415.0	1800-2100	328	440	1800-2100	354	475	1800-2100	388	520	1800-2100

### Equivalent to U.S. EPA Tier 2 and EU Stage II 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.

\*\*Equivalent to U.S. EPA Tier 2 Nonroad and EU Stage II Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

# C13 ACERT

## POWER UNIT

### Specifications

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

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA 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)														
287	385	1800-2100	310	415	1800-2100	328	440	1800-2100	354	475	1800-2100	388	520	1800-2100

### Equivalent to U.S. EPA Tier 2 and EU Stage II Ratings\*\*

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

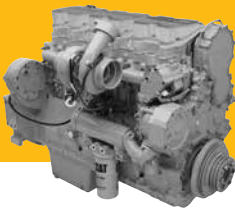
\*Designed to meet China Stage III Nonroad emission standards. U.S. EPA Tier 3 Nonroad equivalent emission standards (not currently EPA Certified). EU Stage IIIA Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

\*\*Equivalent to U.S. EPA Tier 2 Nonroad and EU Stage II Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.



# C15 ACERT

## ENGINE



### Specifications

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

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA 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

### Equivalent to U.S. EPA Tier 1 and EU Stage I Ratings\*\*

TA (ATAAC)	D Rating			E 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.

\*\*U.S. EPA Tier 1 Nonroad equivalent emission standards (not currently EPA certified). EU Stage I 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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA**

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA 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

**Equivalent to U.S. EPA Tier 1 and EU Stage I Ratings\*\***

TA (ATAAC)	D Rating			E 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.

\*\*U.S. EPA Tier 1 Nonroad equivalent emission standards (not currently EPA certified). EU Stage I Nonroad equivalent emission standards (non-current for EU). Available for other regulated and non-regulated areas.

# C18 ACERT

## ENGINE

### Specifications

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

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings\*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	448	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

### China Stage III Nonroad, Equivalent to U.S. EPA Tier 2 Ratings\*\*

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

\*Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

\*\*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.

\*\*\*Non-certified. Available for unregulated 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	448	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

# C18 ACERT

## POWER UNIT

### Specifications

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

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 <sup>3</sup> )
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, Equivalent to U.S. EPA Tier 3 and EU Stage IIIA Ratings\*

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	448	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

### China Stage III Nonroad, Equivalent to U.S. EPA Tier 2 Ratings\*\*

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

\*Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 Nonroad and EU Stage IIIA Nonroad. (Does not meet current EPA or EU emission standards). Available for lesser-regulated areas.

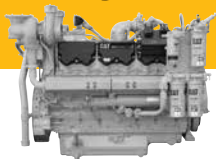
\*\*China Stage III Nonroad emission standards. U.S. EPA Tier 2 Nonroad equivalent emission standards (not currently EPA certified). Available for other regulated and non-regulated areas.

\*\*\*Non-certified. Available for unregulated 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	448	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

# C27 ACERT | C32 ACERT ENGINES



## Specifications

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

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

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

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

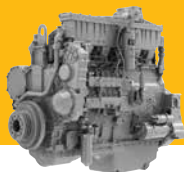
<b>A Rating</b>			<b>B Rating</b>			<b>C Rating</b> (Intermittent)			<b>D Rating</b>			<b>E Rating</b>		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
<b>TA (ATAAC)</b>														
—	—	—	708	950	1800-	839	1125	1800-	895	1200	1800-	1007	1350	1800-
					2100			2100			2100			2100

Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 2 Nonroad. (Does not meet current EPA emission standards). Available for lesser-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 <sup>3</sup> )
Ship Weight . . . . .	1300 kg (2866 lbs)
<b>Approximate Dimensions:</b>	
Length . . . . .	1660 mm (65.35 in)
Width . . . . .	906 mm (35.67 in)
Height . . . . .	1335 mm (52.56 in)

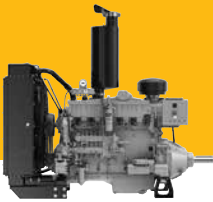
### Non-certified Ratings

	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	298.0	400.0	1800	347.0	465.0	1800
	343.0	460.0	2100	—	—	—

Non-certified. Available for unregulated areas.

# 3406C

## POWER UNIT



### Specifications

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

### Non-certified Ratings

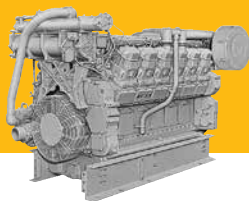
	Irrigation Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
<b>TA</b>	269.0	361.0	1800	328.0	440.0	2000	347.0	465.0	1800
	306.5	411.0	1800	343.0	460.0	2100	—	—	—

Non-certified. Available for unregulated areas.

# 3500

## ENGINES

3512



### Specifications

	3508	3512
<b>Engine Configuration</b> ...	V8, Diesel	V-12, Diesel
<b>Bore x Stroke</b> .....	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
<b>Displacement</b> .....	34.5 liters (2105 in <sup>3</sup> )	51.8 liters (3158 in <sup>3</sup> )
<b>Ship Weight</b> .....	4309 kg (9500 lbs)	6078 kg (13 400 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	2136 mm (84.0 in)	2676 mm (105.0 in)
<b>Width</b> .....	1703 mm (67.0 in)	1703 mm (67.0 in)
<b>Height</b> .....	1720 mm (68.0 in)	1720 mm (68.0 in)

	3516
<b>Engine Configuration</b> ...	V-16, Diesel
<b>Bore x Stroke</b> .....	170 x 190 mm (6.7 x 7.5 in)
<b>Displacement</b> .....	69 liters (4210 in <sup>3</sup> )
<b>Ship Weight</b> .....	7484 kg (16 499 lbs)
<b>Approximate Dimensions:</b>	
<b>Length</b> .....	3366 mm (133.0 in)
<b>Width</b> .....	1703 mm (67.0 in)
<b>Height</b> .....	1720 mm (68.0 in)

### 3508 Ratings

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

### 3512 Ratings

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

### 3516 Ratings

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

Non-certified. Available for unregulated areas.





3516B

# 3500B | 3500C ENGINES

## Specifications

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

### Approximate Dimensions:

<b>Length</b> .....	2462 mm (97.0 in)	3067 mm (120.8 in)
<b>Width</b> .....	1703 mm (67.0 in)	1785 mm (70.3 in)
<b>Height</b> .....	1720 mm (68.0 in)	1806 mm (71.1 in)

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

### Approximate Dimensions:

<b>Length</b> .....	3067 mm (120.8 in)	3278 mm (129.0 in)
<b>Width</b> .....	1785 mm (70.3 in)	1530 mm (60.0 in)
<b>Height</b> .....	1806 mm (71.1 in)	2062 mm (81.0 in)

## Mobile Equipment Ratings

### 3508B Ratings

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

### 3512C Equivalent to U.S. EPA Tier 2 Ratings

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

### 3516C Equivalent to U.S. EPA Tier 2 Ratings

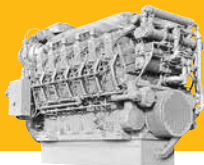
A Rating (Continuous)			
TA (ATAAC)	bkW	bhp	rpm
	1566	2100	1750

Equivalent to U.S. EPA Tier 2 Nonroad. (Does not meet current EPA emission standards). Available for lesser-regulated areas.

# 3600

## ENGINES

3612



### Specifications

	3606	3608
<b>Engine Configuration</b> ...	In-Line 6, Diesel	In-Line 8, Diesel
<b>Bore x Stroke</b> .....	280 x 300 mm (11 x 11.8 in)	280 x 300 mm (11 x 11.8 in)
<b>Displacement</b> .....	110.8 liters (6764 in <sup>3</sup> )	147.8 liters (9018 in <sup>3</sup> )
<b>Ship Weight</b> .....	15 680 kg (34 500 lbs)	19 000 kg (41 800 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	3988 mm (157.0 in)	4828 mm (190.0 in)
<b>Width</b> .....	1748 mm (69.0 in)	1748 mm (69.0 in)
<b>Height</b> .....	2626 mm (103.0 in)	2626 mm (103.0 in)

	3612	3616
<b>Engine Configuration</b> ...	V-12, Diesel	V-16, Diesel
<b>Bore x Stroke</b> .....	280 x 300 mm (11 x 11.8 in)	280 x 300 mm (11 x 11.8 in)
<b>Displacement</b> .....	221.7 liters (13 527 in <sup>3</sup> )	295.6 liters (18 036 in <sup>3</sup> )
<b>Ship Weight</b> .....	25 140 kg (55 300 lbs)	29 950 kg (65 900 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> .....	4562 mm (180.0 in)	5482 mm (216.0 in)
<b>Width</b> .....	1704 mm (67.0 in)	1704 mm (67.0 in)
<b>Height</b> .....	3231 mm (127.0 in)	3231 mm (127.0 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 unregulated 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 <sup>3</sup> )
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

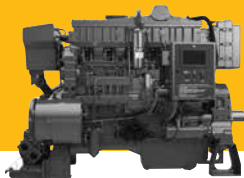
	1500 rpm		1750 rpm		1900 rpm		2100 rpm	
	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
<b>Tier 2</b>	—	—	597	800	597	800	597	800
<b>Tier 3</b>	—	—	522	700	522	700	522	700
	—	—	447	600	447	600	447	600
<b>Non-certified</b>	522	700	—	—	—	—	—	—

Ratings below 560 bkW (750 bhp): Meets U.S. EPA stationary emergency use only fire pump emission standards (Equivalent to Tier 3 Nonroad).

Ratings above 560 bkW (750 bhp): Meets U.S. EPA stationary emergency use only fire pump emission standards (Equivalent to Tier 2 Nonroad).

# Fire Pump

## ENGINES



### 3406C Ratings

#### FM Approved, UL Listed

##### In-Line 6

1750 rpm		2100 rpm		2300 rpm	
bkW	bhp	bkW	bhp	bkW	bhp
TA					
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
TA					
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
TA			
709	950	794	1065

### 3512 Ratings

#### Not FM Approved,

#### Not UL Listed

##### V-12

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

### 3516 Ratings

#### Not FM Approved,

#### Not UL Listed

##### V-16

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

Non-certified. Available for unregulated areas. FM, UL, and NFPA standards.

# NSPS Regulations and Engine Labeling

## Labeling on Gas Engines

### Stationary Use Only Label

- Cat gas engines are not certified for U.S. mobile applications and are labeled indicating they are for stationary use only regardless of the dealer placing the order.

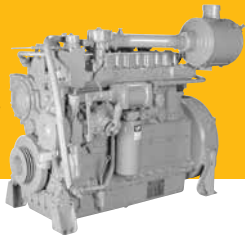
### U.S. EPA Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR Part 60 Subpart JJJJ)

- Applies to newly built engines.
- This standard regulates NO<sub>x</sub>, CO, and VOC in the United States. It is the customer's responsibility to demonstrate U.S. EPA compliance through on-site performance testing.

# G3300

## GAS ENGINES

G3306



### Specifications

	<b>G3304 (NA)</b>	<b>G3306 (TA)</b>
<b>Bore x Stroke</b> . . . . .	121 x 152 mm (4.75 x 6.0 in) . . . . .	121 x 152 mm (4.75 x 6.0 in)
<b>Displacement</b> . . . . .	7.0 liters (425 in <sup>3</sup> ) . . . . .	10.5 liters (638 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	757 kg (1670 lbs) . . . . .	948 kg (2090 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	1158 mm (46.0 in) . . . . .	1539 mm (60.0 in)
<b>Width</b> . . . . .	744 mm (29.0 in) . . . . .	978 mm (38.0 in)
<b>Height</b> . . . . .	1170 mm (46.0 in) . . . . .	1261 mm (50.0 in)

### G3304 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
<b>G3304B NA<sup>2</sup></b>	71	95

### G3306 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
<b>G3306B NA<sup>2</sup></b>	108	145
<b>G3306B TA<sup>1,2</sup></b>	151	203
<b>G3306B TAA<sup>1,2</sup></b>	157	211

<sup>1</sup>54°C/130°F water to aftercooler

<sup>2</sup>With 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 have emission settings available for export only. For specific emission information please refer to engine spec sheet.



G3408

# G3400

## GAS ENGINES

### Specifications

	G3406 (TA)	G3408C LE	G3412C LE
<b>Bore x Stroke</b> . . . . .	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)
<b>Displacement</b> . . . . .	14 liters (893 in <sup>3</sup> ) . . . . .	18 liters (1099 in <sup>3</sup> ) . . . . .	27 liters (1649 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	1362 kg (3000 lbs) . . . . .	2245 kg (4950 lbs) . . . . .	2141 kg (4720 lbs)
<b>Approximate Dimensions:</b>			
<b>Length</b> . . . . .	1934 mm (76.0 in) . . . . .	1756 mm (69.1 in) . . . . .	2442 mm (96.0 in)
<b>Width</b> . . . . .	1270 mm (50.0 in) . . . . .	1563 mm (61.5 in) . . . . .	1598 mm (63.0 in)
<b>Height</b> . . . . .	1433 mm (56.0 in) . . . . .	1758 mm (69.2 in) . . . . .	1960 mm (77.0 in)

### G3406 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
<b>G3406 NA</b> <sup>2</sup>	160	215
<b>G3406 TA</b> <sup>1,2</sup>	206	276
<b>G3406 TA</b> <sup>1,3</sup>	242	325

### G3408 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
<b>G3408 NA</b> <sup>2</sup>	190	255
<b>G3408 TA</b> <sup>1,3</sup>	298	400
<b>G3408C LE</b> <sup>1,3</sup>	317	425

### G3412 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
<b>G3412 TA</b> <sup>1,3</sup>	448	600
<b>G3412C LE</b> <sup>1</sup>	475	637

<sup>1</sup>54°C/130°F Water to Aftercooler

<sup>2</sup>With customer-supplied air fuel ratio control and aftertreatment

<sup>3</sup>Rating for export only. Not NSPS site compliant capable.

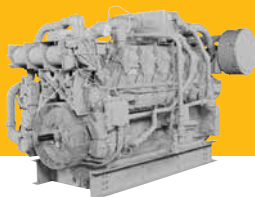
Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

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

# G3500

## GAS ENGINES

G3512



### Specifications

	G3508B LE	G3512B LE
<b>Bore x Stroke</b> . . . . .	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
<b>Displacement</b> . . . . .	34.5 liters (2105 in <sup>3</sup> )	51.8 liters (3158 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	3941 kg (8688 lbs)	4950 kg (10,913 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	2522 mm (99.0 in)	3023 mm (119.0 in)
<b>Width</b> . . . . .	2014 mm (79.0 in)	2220 mm (87.4 in)
<b>Height</b> . . . . .	2131 mm (84.0 in)	2136 mm (84.1 in)

	G3516B LE	G3520B LE
<b>Bore x Stroke</b> . . . . .	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
<b>Displacement</b> . . . . .	69.0 liters (4211 in <sup>3</sup> )	86.3 liters (5263 in <sup>3</sup> )
<b>Ship Weight</b> . . . . .	8401 kg (18,520 lbs)	11 168 kg (24,622 lbs)
<b>Approximate Dimensions:</b>		
<b>Length</b> . . . . .	3400 mm (133.0 in)	4180 mm (164.0 in)
<b>Width</b> . . . . .	1844 mm (73.0 in)	1755 mm (69.0 in)
<b>Height</b> . . . . .	2286 mm (90.0 in)	2385 mm (94.0 in)

### G3508 Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
<b>G3508 TA<sup>1,2</sup></b>	391	524	—	—
<b>G3508 LE<sup>1</sup></b>	—	—	500	670
<b>G3508B LE<sup>1</sup></b>	—	—	514	690

### G3516 Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
<b>G3516 NA<sup>2,3</sup></b>	492	660	—	—
<b>G3516 TA<sup>1,2</sup></b>	783	1050	—	—
<b>G3516 LE<sup>1</sup></b>	858	1150	1000	1340
<b>G3516B LE<sup>1</sup></b>	—	—	1029	1380

### G3512 Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
<b>G3512 TA<sup>1,2</sup></b>	589	790	—	—
<b>G3512 LE<sup>1</sup></b>	642	860	749	1004
<b>G3512B LE<sup>1</sup></b>	—	—	772	1035

### G3520B Ratings

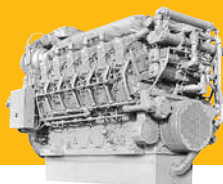
	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
<b>G3520B LE<sup>1</sup></b>	1104	1480	1286	1725

<sup>1</sup>54°C/130°F Water to Aftercooler<sup>2</sup>With customer-supplied air fuel ratio control and aftertreatment<sup>3</sup>Rating 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.





G3612

# G3600

## GAS ENGINES

### Specifications

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

#### Approximate Dimensions:

<b>Length</b> . . . . .	4638 mm (183.0 in)	5465 mm (215.0 in)
<b>Width</b> . . . . .	1744 mm (69.0 in)	1868 mm (74.0 in)
<b>Height</b> . . . . .	2921 mm (115.0 in)	2922 mm (115.0 in)

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

#### Approximate Dimensions:

<b>Length</b> . . . . .	4735 mm (186.0 in)	5661 mm (223.0 in)
<b>Width</b> . . . . .	2380 mm (94.0 in)	2380 mm (94.0 in)
<b>Height</b> . . . . .	3220 mm (127.0 in)	3208 mm (126.0 in)

### G3606 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
<b>G3606 LE<sup>3</sup></b>	1324	1775
<b>G3606 LE<sup>2</sup></b>	1368	1835
<b>G3606 LE<sup>1</sup></b>	1413	1895

### G3608 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
<b>G3608 LE<sup>3</sup></b>	1767	2370
<b>G3608 LE<sup>2</sup></b>	1823	2445
<b>G3608 LE<sup>1</sup></b>	1879	2520

### G3612 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
<b>G3612 LE<sup>3</sup></b>	2647	3550
<b>G3612 LE<sup>2</sup></b>	2733	3665
<b>G3612 LE<sup>1</sup></b>	2822	3785

### G3616 Ratings

	1000 rpm	
Engine — Continuous	bkW	bhp
<b>G3616 LE<sup>3</sup></b>	3531	4735
<b>G3616 LE<sup>2</sup></b>	3647	4890
<b>G3616 LE<sup>1</sup></b>	3762	5045

### GCM34 Ratings

	750 rpm	
Engine — Continuous	bkW	bhp
<b>G12CM34</b>	4575	6135
<b>G16CM34</b>	6750	9052

<sup>1</sup>32°C/90°F Water to Aftercooler

<sup>2</sup>43°C/110°F Water to Aftercooler

<sup>3</sup>54°C/130°F Water to Aftercooler

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.

# Technology

## **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 keyswitch



## **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 keyswitch



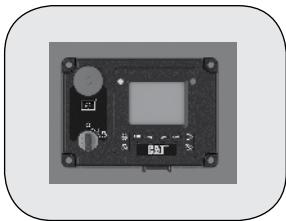
## **Mini Industrial Panel Display (MIPD)**

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

For additional information visit [www.catelectronics.com](http://www.catelectronics.com)

## **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



# Notes



# Notes



# **Caterpillar. Your Local Resource. Worldwide.**

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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Industrial Power Systems

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**[www.cat-industrial.com](http://www.cat-industrial.com)**

**E-mail: [cat\\_power@cat.com](mailto:cat_power@cat.com)**

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.

LEGH0002-09 (10-17)

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