

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. “Lesser Regulated” refers to engines that are available for other regulated and non-regulated areas.

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Highly Regulated

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Cat Engines

Diesel Engine Rating Definitions

Explanation of Ratings A, B, C, D, and E:

For an exact determination of the appropriate rating, contact your local Cat dealer. Engine rating obtained and presented in accordance with ISO3046/1.

IND-A (Continuous)

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

IND-B

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

IND-C (Intermittent)

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

IND-D

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

IND-E

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

Rating Conditions

Diesel Engines — up to 6.6 liter

All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines — up to 7.1 liter

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

Diesel Engines — greater than 7.1 liter

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

ISO 9001:2000 Certification

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

Cat Engines

Cleaner Fuel and Oils

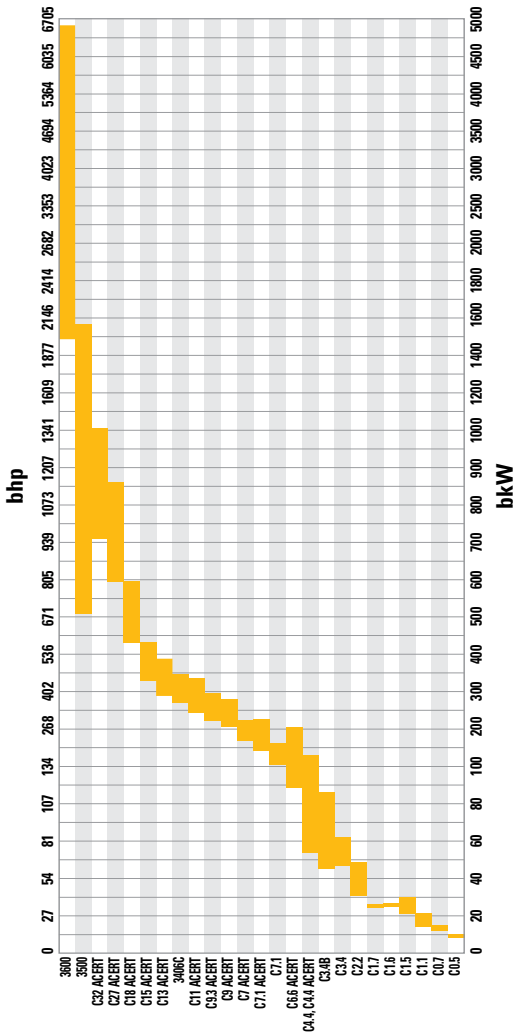
Industry technology requires the use of Ultra Low Sulfur Diesel (ULSD) fuel which contains less than or equal to 15 parts per million sulfur (mg/kg) as well as low sulfated ash oil in U.S. EPA Tier 4 Final, EU Stage IV engines. These cleaner fuels and oils help reduce engine operating costs. Cat U.S. EPA Tier 4 Final, EU Stage IV engines continue to have B20 biodiesel capability when desired or required.

Abbreviations

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

Cat Engines

Match a Cat Engine to Your Application



Customer Value

Industrial Engines

Reliability

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

Durability

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

Fluid Efficiency

- Improved net engine fluid consumption
- Flexible regeneration options on applicable highly regulated models maximize fluid efficiency.
- Caterpillar integration expertise optimizes engine performance for maximum efficiency.

Low Cost of Ownership

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

Maximum Uptime

- Ease of service
 - Oil and filter change intervals are consistent across the product line.
 - Diesel Particulate Filters (DPF) for highly regulated models offer flexible service options where ash cleaning is required.
- Ease of operation
 - Regeneration strategies for highly regulated models are designed to keep customers working
 - Electric priming pump improves convenience
 - Single-belt accessory drive

World-class Product Support

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

Customer Value

Industrial Power Units

Flexibility

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

Reliability

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

Durability

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

Fluid Efficiency

- Improved net engine fluid consumption
- Flexible regeneration options on applicable highly regulated models maximize fluid efficiency.
- Caterpillar integration expertise optimizes engine performance for maximum efficiency.

Low-Cost of Ownership

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

Maximum Uptime

- Ease of service
- Ease of operation

World-class Product Support

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

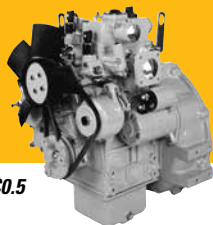
Customer Value

Aftertreatment for Highly Regulated Models

- Advanced NOx Reduction System (NRS) maximizes engine power and fluid efficiency while lowering combustion temperatures and reducing NOx emissions.
- Cat Regeneration System is designed to maximize equipment uptime by providing excellent regeneration capability in a variety of environments, with precise measurement and control to reduce fluid burned during regeneration.
- Diesel Oxidation Catalyst (DOC) facilitates passive regeneration and requires no maintenance.
- Diesel Particulate Filter (DPF) reduces Particulate Matter (PM) with its wall-flow design or through-flow design.
- Flexible regeneration options on applicable models maximize fluid efficiency.
- Pump Electronic Tank Unit (PETU) is available in different volume configurations.
- Up to 5 percent net improvement in fluid efficiency for U.S. EPA Tier 4 Final, EU Stage IV over U.S. EPA Tier 4 Interim, EU Stage IIIB (including DEF consumption)

C0.5 | C0.7

ENGINES



C0.5

Specifications

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

C0.5 Ratings

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

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

C0.7 Ratings

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

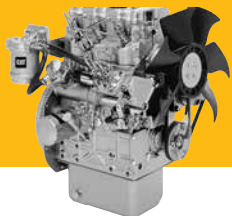
Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

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

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

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

C1.1 ENGINE



Specifications

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

| | |
|---------------------------------------|----------------------------------|
| Engine Configuration | In-Line 3, Diesel |
| Bore x Stroke | 77 x 81 mm (3.0 x 3.2 in) |
| Displacement | 1.1 liters (69 in ³) |
| Ship Weight | 87 kg (191 lbs) |

Approximate Dimensions:

| | |
|-------------------------|------------------|
| Length | 491 mm (19.3 in) |
| Width | 400 mm (15.7 in) |
| Height | 576 mm (22.7 in) |

C1.1 Ratings

| | | C Rating (Intermittent) | | |
|----|----------|----------------------------|-----|------|
| NA | Standard | Standard | bhp | rpm |
| | 14.7 | 19.7 | | 2200 |
| | 16.1 | 21.6 | | 2400 |
| | 17.3 | 23.2 | | 2600 |
| | 18.4 | 24.7 | | 2800 |
| | 19.7 | 26.4 | | 3000 |
| | 21.0 | 28.2 | | 3400 |
| NA | Derate | Derate | | |
| | 13.7 | 18.4 | | 2200 |
| | 16.8 | 22.5 | | 2800 |
| | 17.7 | 23.7 | | 3000 |

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

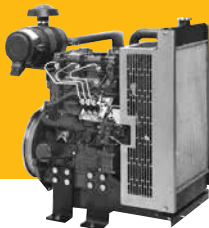
C1.1 U.S. EPA Tier 4 Final Ratings

| | | C Rating (Intermittent) | | |
|----|----------|----------------------------|-----|------|
| NA | Standard | Standard | bhp | rpm |
| | 14.4 | 19.3 | | 2200 |
| | 18.4 | 24.7 | | 2800 |

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

C1.1

POWER UNIT



Specifications

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

| | |
|-----------------------------------|----------------------------------|
| Engine Configuration . . . | In-Line 3, Diesel |
| Bore x Stroke | 77 x 81 mm (3.0 x 3.2 in) |
| Displacement | 1.1 liters (69 in ³) |
| Ship Weight | 129 kg (284 lbs) |

Approximate Dimensions:

| | |
|-------------------------|------------------|
| Length | 778 mm (30.6 in) |
| Width | 438 mm (17.2 in) |
| Height | 730 mm (28.7 in) |

C1.1 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.

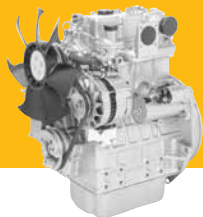
C1.1 U.S. EPA Tier 4 Final Ratings

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

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

C1.5

ENGINE



Specifications

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

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

Approximate Dimensions:

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

EU Stage IIIA Ratings

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

U.S. EPA Tier 4 Final Ratings

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

*Special application

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA

C1.5

POWER UNIT



Specifications

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

| | |
|-----------------------------------|------------------------------------|
| Engine Configuration . . . | In-Line 3, Diesel |
| Bore x Stroke | 84 x 90 mm (3.3 x 3.5 in) |
| Displacement | 1.496 liters (91 in ³) |
| Ship Weight | 175 kg (385.8 lbs) |

Approximate Dimensions:

| | |
|-------------------------|------------------|
| Length | 820 mm (32.3 in) |
| Width | 497 mm (19.6 in) |
| Height | 793 mm (31.2 in) |

EU Stage IIIA Ratings

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

U.S. EPA Tier 4 Final Ratings

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA



C1.5

AFTERTREATMENT

Specifications

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

Approximate Dimensions:

Length 449 mm (17.6 in)

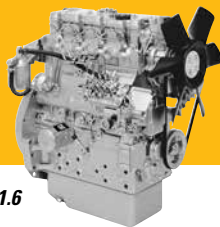
Weight 13 kg (28.7 lbs)

Standard Emissions Control Equipment

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

C1.6 | C1.7

ENGINES



C1.6

Specifications

| | C1.6 EU Stage IIIA | C1.7 EU Stage IIIA |
|-----------------------------------|--|------------------------------------|
| Engine Configuration . . . | In-Line 4, Diesel | In-Line 3, Diesel |
| Bore x Stroke | 77 x 81 mm (3.0 x 3.2 in) . . . | 84 x 100 mm (3.3 x 3.9 in) |
| Displacement | 1.5 liters (92 in ³) | 1.66 liters (101 in ³) |
| Ship Weight | 106.8 kg (235.4 lbs) | 160 kg (352.7 lbs) |
| Approximate Dimensions: | | |
| Length | 591 mm (23.3 in) | 564 mm (22.2 in) |
| Width | 420 mm (16.5 in) | 453 mm (17.8 in) |
| Height | 576 mm (22.7 in) | 654 mm (25.7 in) |

C1.6 EU Stage IIIA Ratings

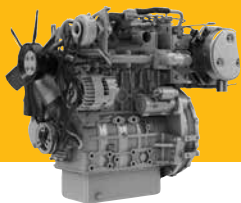
| NA | C Rating (Intermittent) | | |
|----|----------------------------|------|------|
| | bkW | bhp | rpm |
| | 24.6 | 33.0 | 2800 |
| | 26.5 | 35.5 | 3000 |

C1.7 EU Stage IIIA Ratings

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

Emission standards: EU Stage IIIA

C2.2 ENGINE



Specifications

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

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

Approximate Dimensions:

| | |
|-------------------------|---|
| Length | 660 mm (26 in) (NA, T) |
| Width | 459 mm (18 in) (NA) 531 mm (20.9 in) (T) |
| Height | 725 mm (28.5 in) (NA, T) |

EU Stage IIIA Ratings

| NA | C Rating (Intermittent) | | |
|----|----------------------------|-----------------|------|
| | bkW Standard | bhp Standard | rpm |
| | 31.0 | 41.6 | 2200 |
| | 34.1 | 45.7 | 2400 |
| | 35.7 | 47.9 | 2600 |
| | 36.3 | 48.7 | 2800 |

EU Stage IIIB Ratings

| T | C Rating (Intermittent) | | |
|---|----------------------------|-----------------|------|
| | bkW Standard | bhp Standard | rpm |
| | 40.0 | 53.6 | 2600 |
| | 41.5 | 55.7 | 2600 |
| | 44.7 | 60.0 | 2800 |
| | 45.5 | 61.0 | 3000 |

U.S. EPA Tier 4 Final Ratings

| NA | C Rating (Intermittent) | | |
|----|----------------------------|------|-------------|
| | bkW | bhp | rpm |
| | 35.4 | 47.5 | 2600 |
| | 35.7 | 47.9 | 2600 |
| | 36.4 | 48.8 | 2800 & 3000 |

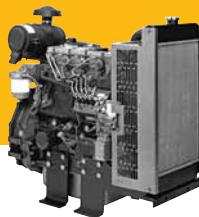
U.S. EPA Tier 4 Final

| T | C Rating (Intermittent) | | |
|---|----------------------------|------|-------------|
| | bkW | bhp | rpm |
| | 36.4 | 48.8 | 2600 & 2800 |
| | 40.0 | 53.6 | 2600 |
| | 41.5 | 55.7 | 2600 |
| | 44.7 | 60.0 | 2800 |
| | 45.5 | 61.0 | 3000 |

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA or EU Stage IIIB

C2.2

POWER UNIT



Specifications

| | |
|-----------------------------------|--|
| | U.S. EPA Tier 4 Final, EU Stage IIIA, EU Stage IIIB |
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 84 x 100 mm (3.3 x 3.9 in) |
| Displacement | 2.2 liters (135 in ³) |
| Ship Weight | 218 kg (480 lbs) (NA) 228 kg (502 lbs) (T) |

Approximate Dimensions:

| | |
|-------------------------|---|
| Length | 946 mm (37.2 in) (NA) 973 mm (38.3 in) (T) |
| Width | 513 mm (20.2 in) (NA) 590 mm (23.2 in) (T) |
| Height | 854 mm (33.6 in) (NA) 973 mm (38.3 in) (T) |

EU Stage IIIA Ratings

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

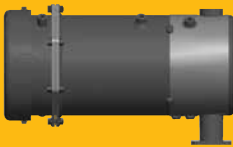
U.S. EPA Tier 4 Final Ratings

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

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

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA or EU Stage IIIB



C2.2

AFTERTREATMENT

Specifications

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

Approximate Dimensions:

| | |
|-----------------------|------------------|
| Length | 449 mm (17.6 in) |
| Weight | 16 kg (35.3 lbs) |
| Diameter | 198 mm (7.8 in) |

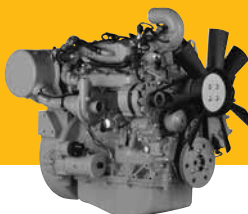
Multiple customizable configuration options available

Standard Emissions Control Equipment

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

C3.4B

ENGINE



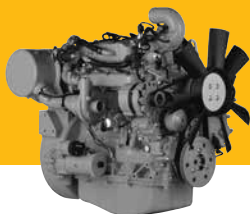
Specifications

| | |
|-----------------------------------|--|
| | U.S. EPA Tier 4 Final, EU Stage IIIB < 56 bkW (75 bhp) |
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 99 x 110 mm (3.9 x 4.3 in) |
| Displacement | 3.4 liters (207.5 in ³) |
| Ship Weight | 251 kg (553.4 lbs) (T) |
| Approximate Dimensions: | |
| Length | 747.5 mm (29.4 in) |
| Width | 662 mm (26.1 in) |
| Height | 822 mm (32.4 in) |

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

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIB



C3.4B

ENGINE

Specifications

| | U.S. EPA Tier 4 Interim, EU Stage IIIB > 56 bkW (75 bhp) | U.S. EPA Tier 4 Final, EU Stage IV > 56 bkW (75 bhp) |
|-----------------------------------|--|--|
| Engine Configuration . . . | In-Line 4, Diesel | In-Line 4, Diesel |
| Bore x Stroke | 99 x 110 mm (3.9 x 4.3 in) . . . | 99 x 110 mm (3.9 x 4.3 in) |
| Displacement | 3.4 liters (207.5 in ³) | 3.4 liters (207.5 in ³) |
| Ship Weight | 251 kg (553.4 lbs) | 251 kg (553.4 lbs) |
| Approximate Dimensions: | | |
| Length | 747.5 mm (29.4 in) | 747.5 mm (29.4 in) |
| Width | 662 mm (26.1 in) | 662 mm (26.1 in) |
| Height | 822 mm (32.4 in) | 822 mm (32.4 in) |

U.S. EPA Tier 4 Interim, 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 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 | — | — | — |

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C3.4B

POWER UNIT



Specifications

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

Approximate Dimensions:

| | Rear-Mounted Aftertreatment |
|--------|--------------------------------|
| Length | 1242 mm (48.9 in) |
| Width | 705 mm (27.7 in) |
| Height | 957 mm (37.6 in) |

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

| T | C Rating (Intermittent) | | |
|---|----------------------------|-----|------|
| | bkW | bhp | rpm |
| | 55.4 | 74 | 2200 |

U.S. EPA Tier 4 Interim, 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 | — | — | — |

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB

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

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

Approximate Dimensions:

| | Wall-Flow DPF | Through-Flow DPF |
|-----------------------|----------------------|-------------------------|
| Length | 541 mm (21.3 in) | 509 mm (20 in) |
| Diameter | 180 mm (7.1 in) | 149 mm (5.8 in) |
| Weight | 20 kg (44 lbs) | 14 kg (30.8 lbs) |

Standard Emissions Control Equipment

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

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

Approximate Dimensions:

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

Standard Emissions Control Equipment

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

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

Approximate Dimensions:

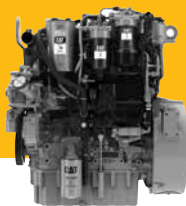
| | DOC | SCR |
|-----------------------|------------------|-------------------|
| Length | 320 mm (12.6 in) | 520 mm (20.47 in) |
| Diameter | 196 mm (7.7 in) | 251 mm (9.88 in) |
| Weight | 15 kg (33 lbs) | 20 kg (44 lbs) |

Standard Emissions Control Equipment

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

C4.4 ACERT

ENGINE



Specifications

| | U.S. EPA Tier 4 Interim, EU Stage IIIB | U.S. EPA Tier 4 Final, EU Stage IV |
|-----------------------------------|---|---|
| Engine Configuration . . . | In-Line 4, Diesel | In-Line 4, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in.) . . . | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 4.4 liters (268.5 in ³) | 4.4 liters (268.5 in ³) |
| Ship Weight | 400-450 kg (881.8-992.0 lbs) . . | 400 kg (881.8 lbs) (TA) 420 kg (926 lbs) (TTA) |
| Approximate Dimensions: | | |
| Length | 845.1 mm (33.3 in) (TA, TTA) . . | 845.1 mm (33.3 in) (TA, TTA) |
| Width | 772.4 mm (30.4 in) (TA) | 772.4 mm (30.4 in) (TA) 741.6 mm (29.1 in) (TTA) |
| Height | 848.2 mm (33.4 in) (TA) | 848.2 mm (33.4 in) (TA) 867.6 mm (34.1 in) (TTA) |

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

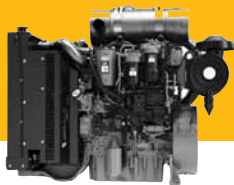
| | B Rating | | | C Rating (Intermittent) | | |
|------------|----------|-------|------|----------------------------|-------|------|
| | bkW | bhp | rpm | bkW | bhp | rpm |
| TA | 65.9 | 88.4 | 2200 | 61.5 | 82.5 | 2200 |
| | 70.0 | 93.9 | 2200 | 74.5 | 100.0 | 2200 |
| | 85.9 | 115.2 | 2200 | 82.0 | 110.0 | 2200 |
| | — | — | — | 98.0 | 131.4 | 2200 |
| | 92.6 | 124.0 | 2200 | 102.1 | 137.0 | 2200 |
| | — | — | — | 106.0 | 142.1 | 2200 |
| | — | — | — | 110.1 | 147.6 | 2200 |
| TTA | 105.1 | 141.0 | 2200 | 117.0 | 157.0 | 2200 |
| | 112.0 | 150.0 | 2200 | 129.4 | 173.5 | 2200 |

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

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

B Ratings to be added when available

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV



C4.4 ACERT

POWER UNIT

Specifications

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

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

| B Rating | | | C Rating (Intermittent) | | |
|------------|-----|------|----------------------------|-------|------|
| bkW | bhp | rpm | bkW | bhp | rpm |
| TA | | | | | |
| — | — | — | 74.5 | 100 | 2200 |
| — | — | — | 82 | 110 | 2200 |
| 92.6 | 124 | 2200 | 102.1 | 137 | 2200 |
| — | — | — | 110 | 148 | 2200 |
| TTA | | | | | |
| — | — | — | 117 | 157 | 2200 |
| — | — | — | 129.4 | 173.5 | 2200 |

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

| B Rating | | | C Rating (Intermittent) | | |
|------------|-------|------|----------------------------|-------|------|
| bkW | bhp | rpm | bkW | bhp | rpm |
| TA | | | | | |
| — | — | — | 74.5 | 100 | 2200 |
| — | — | — | 82.0 | 110 | 2200 |
| 92.6 | 124.2 | 2200 | 102.1 | 137 | 2200 |
| — | — | — | 110.0 | 148 | 2200 |
| TTA | | | | | |
| — | — | — | 117.0 | 157.0 | 2200 |
| — | — | — | 129.4 | 173.5 | 2200 |

Emission standards: U.S. EPA Tier 4 Interim, EU Stage IIIB

C4.4 ACERT

AFTERTREATMENT



Specifications

| | U.S. EPA Tier 4 Interim, EU Stage IIIB ≤ 82 bkW (110 bhp) | U.S. EPA Tier 4 Interim, EU Stage IIIB > 82 bkW (110 bhp) |
|--------------------------------|---|---|
| Approximate Dimensions: | | |
| Length | 802.5 mm (31.6 in) | 828 mm (32.6 in) |
| Width | 365 mm (14.3 in) | 365 mm (14.3 in) |
| Height | 279 mm (11 in) | 300.5 mm (11.8 in) |
| Weight | 34 kg (75 lbs) | 37 kg (81.6 lbs) |
| Diameter | 244.9 mm (9.6 in) | 270.3 mm (10.6 in) |

Standard Emissions Control Equipment

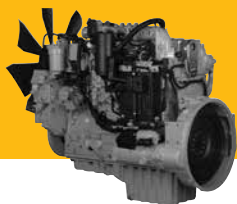
- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Specifications

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

Standard Emissions Control Equipment

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



C6.6 ACERT

ENGINE

Specifications

| | |
|---------------------------------------|---|
| | U.S. EPA Tier 4 Interim, EU Stage IIIB |
| Engine Configuration | In-Line 6, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 6.6 liters (402.8 in ³) |
| Ship Weight | 695 kg (1532 lbs) |
| Approximate Dimensions: | |
| Length | 1063.7 mm (41.9 in) |
| Width | 753 mm (29.6 in) |
| Height | 907 mm (35.7 in) |

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

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

Emission standards: U.S. EPA Tier 4 Interim, EU Stage IIIB

C6.6 ACERT

AFTERTREATMENT



Specifications

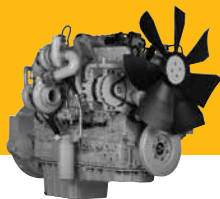
U.S. EPA Tier 4 Interim,
EU Stage IIIB

Approximate Dimensions:

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

Standard Emissions Control Equipment

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



C7.1 ACERT ENGINE

Specifications

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

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

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

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

| | B Rating | | | C Rating (Intermittent) | | |
|--------------------|----------|-------|------|----------------------------|-------|------|
| | bkW | bhp | rpm | bkW | bhp | rpm |
| TA (ATAAC) | | | | | | |
| | 116.0 | 156.0 | 2200 | 151.0 | 202.0 | 2200 |
| | 129.0 | 173.0 | 2200 | — | — | — |
| TTA (ATAAC) | | | | | | |
| | 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 |

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.

C7.1 ACERT

POWER UNIT



Specifications

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

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

Approximate Dimensions:

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

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

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.



C7.1 ACERT

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Interim,
EU Stage IIIB
≤ 172 *bkW* (231 *bhp*)

Approximate Dimensions:

| | |
|---------------|--------------------|
| Length..... | 918.7 mm (36.2 in) |
| Width..... | 714.4 mm (28.1 in) |
| Height..... | 618.5 mm (24.3 in) |
| Weight..... | 124 kg (273.4 lbs) |
| Diameter..... | 287 mm (11.3 in) |

U.S. EPA Tier 4 Interim,
EU Stage IIIB
≥ 172 *bkW* (231 *bhp*)

Approximate Dimensions:

| | |
|---------------|--------------------|
| Length..... | 918.7 mm (36.2 in) |
| Width..... | 714.4 mm (28.1 in) |
| Height..... | 643.9 mm (25.3 in) |
| Weight..... | 134 kg (295.4 lbs) |
| Diameter..... | 337.8 mm (13.3 in) |

Standard Emissions Control Equipment

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

Specifications

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

PETU Configuration

Approximate Dimensions:

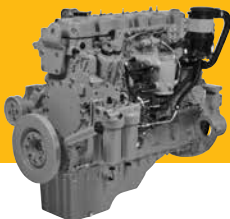
| | | |
|-------------|------------------|----------------|
| Length..... | 771 mm (30.4 in) | 610 mm (24 in) |
| Width..... | 793 mm (31.2 in) | 459 mm (18 in) |
| Height..... | 468 mm (18.4 in) | 280 mm (11 in) |

Standard Emissions Control Equipment

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

C9.3 ACERT

ENGINE



Specifications

| | U.S. EPA Tier 4 Interim, EU Stage IIIB | U.S. EPA Tier 4 Final, EU Stage IV |
|--------------------------------|---|---------------------------------------|
| Engine Configuration . . . | In-Line 6, Diesel | In-Line 6, Diesel |
| Bore x Stroke | 115 x 149 mm (4.53 x 5.87 in . . | 115 x 149 mm (4.53 x 5.87 in) |
| Displacement | 9.3 liters (567.5 in ³) | 9.3 liters (567.5 in ³) |
| Ship Weight | 885 kg (1950 lbs) | 885 kg (1950 lbs) |
| Approximate Dimensions: | | |
| Length | 1150 mm (45.3 in) | 1119 mm (44 in) |
| Width | 827 mm (32.6 in) | 1025 mm (40.4 in) |
| Height | 1123 mm (44.2 in) | 1066 mm (41.9 in) |

U.S. EPA Tier 4 Interim, 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 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 |

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.

C9.3 ACERT

POWER UNIT



Specifications

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

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

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

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

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.

C9.3 ACERT

AFTERTREATMENT



Specifications

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

Approximate Dimensions:

| | |
|-----------------------|----------------------|
| Length | 925.89 mm (36.45 in) |
| Width | 714.4 mm (28.12 in) |
| Height | 392.21 mm (15.44 in) |
| Weight | 130 kg (287 lbs) |
| Diameter | 304.8 mm (12 in) |

Multiple customizable configuration options available

Standard Emissions Control Equipment

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

Specifications

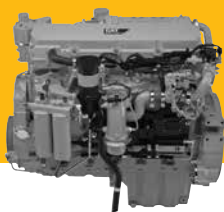
U.S. EPA Tier 4 Final, EU Stage IV

| | Standard Configuration | PETU Configuration up to 48.4 L (51.1 U.S. qt) |
|--------------------------------|---------------------------|---|
| Approximate Dimensions: | | |
| Length | 885 mm (34.8 in) | 854 mm (33.6 in) |
| Width | 870 mm (34.25 in) | 287 mm (11.3 in) |
| Height | 570 mm (22.4 in) | 551 mm (21.7 in) |
| Weight | 210-213 kg (463-470 lbs)* | 19.42 kg (42.8 lbs) |

*Depending on configuration

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



C13 ACERT

ENGINE

Specifications

| | U.S. EPA Tier 4 Interim, EU Stage IIIB | U.S. EPA Tier 4 Final, EU Stage IV |
|-----------------------------------|--|---------------------------------------|
| Engine Configuration . . . | In-Line 6, Diesel | In-Line 6, Diesel |
| Bore x Stroke | 130 x 157 mm (5.1 x 6.2 in) . . . | 130 x 157 mm (5.1 x 6.2 in) |
| Displacement | 12.5 liters (762.8 in ³) | 12.5 liters (762.8 in ³) |
| Ship Weight | 1350 kg (2976 lbs) | 1143 kg (2520 lbs) |
| Approximate Dimensions: | | |
| Length | 1203 mm (47.2 in) | 1272 mm (50.1 in) |
| Width | 933.1 mm (36.7 in) | 996 mm (39.2 in) |
| Height | 1186 mm (46.7 in) | 1132 mm (44.6 in) |

U.S. EPA Tier 4 Interim, 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 |
| TA (ATAAC) | | | | |
| 287 385 1800- | 309 415 1800- | 328 440 1800- | 354 475 1800- | 388 520 1800- |
| 2100 | 2100 | 2100 | 2100 | 2100 |

U.S. EPA Tier 4 Final, EU Stage IV 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- | 309 415 1800- | 328 440 1800- | 354 475 1800- | 388 520 1800- |
| 2100 | 2100 | 2100 | 2100 | 2100 |

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.

C13 ACERT

POWER UNIT



Specifications

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

U.S. EPA Tier 4 Interim, 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 | | | |
| TA (ATAAC) | 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 Ratings

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.



C13 ACERT

AFTERTREATMENT

Specifications

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

Approximate Dimensions:

| | |
|-----------------------|--------------------|
| Length | 1053 mm (41.5 in) |
| Width | 779.8 mm (30.7 in) |
| Height | 451.3 mm (17.8 in) |
| Weight | 180 kg (397 lbs) |
| Diameter | 330.2 mm (13 in) |

Multiple customizable configuration options available

Standard Emissions Control Equipment

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

Specifications

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

| | Standard Configuration | PETU Configuration up to 48.4 L (51.1 U.S. qt) |
|--------------------------------|--------------------------|---|
| Approximate Dimensions: | | |
| Length | 1077 mm (42.4 in) | 854 mm (33.6 in) |
| Width | 1069 mm (42.1 in) | 287 mm (11.3 in) |
| Height | 654 mm (25.7 in) | 551 mm (21.7 in) |
| Weight | 248-259 kg (547-571 lb)* | 19.42 kg (42.8 lbs) |

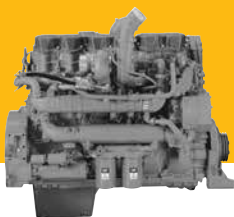
*Depending on configuration

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

C15 ACERT

ENGINE



Specifications

| | U.S. EPA Tier 4 Interim, EU Stage IIIB | U.S. EPA Tier 4 Final, EU Stage IV |
|--------------------------------|--|---------------------------------------|
| Engine Configuration . . . | In-Line 6, Diesel | In-Line 6, Diesel |
| Bore x Stroke | 137 x 171 mm (5.4 x 6.73 in) . . . | 137 x 171 mm (5.4 x 6.73 in) |
| Displacement | 15.2 liters (927.6 in ³) | 15.2 liters (927.6 in ³) |
| Ship Weight | 1666 kg (3673 lbs) | 1542 kg (3395.5 lbs) |
| Approximate Dimensions: | | |
| Length | 1438 mm (56.6 in) | 1438 mm (56.6 in) |
| Width | 943 mm (37.1 in) | 969 mm (38.1 in) |
| Height | 1239 mm (48.8 in) | 1248 mm (49.1 in) |

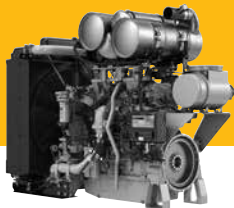
U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

| TA (ATAAC) | A Rating (Continuous) | | | B Rating | | | C Rating (Intermittent) | | | D Rating | | |
|------------|--------------------------|-----|---------------|----------|-----|---------------|----------------------------|-----|---------------|----------|-----|---------------|
| | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm |
| | 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 Ratings

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.



C15 ACERT

POWER UNIT

Specifications

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

U.S. EPA Tier 4 Interim, 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 |

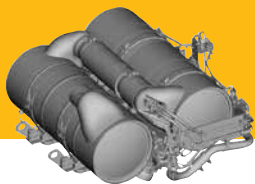
U.S. EPA Tier 4 Final, EU Stage IV Ratings

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.

C15 ACERT

AFTERTREATMENT



Specifications

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

Approximate Dimensions:

| | |
|----------------|--------------------|
| Length..... | 1053 mm (41.5 in) |
| Width | 779.8 mm (30.7 in) |
| Height..... | 451.3 mm (17.8 in) |
| Weight | 180 kg (397 lbs) |
| Diameter | 330.2 mm (13 in) |

Multiple customizable configuration options available

Standard Emissions Control Equipment

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

Specifications

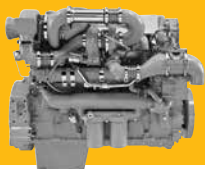
U.S. EPA Tier 4 Final, EU Stage IV

| | IND-A & IND-B Ratings | IND-C & IND-D Ratings | PETU Configuration up to 48.4 L (51.1 U.S. qt) |
|--------------------------------|-----------------------------|-----------------------------|--|
| Approximate Dimensions: | | | |
| Length..... | 1077 mm (42.4 in)..... | 1153 mm (45.4 in)..... | 854 mm (33.6 in) |
| Width | 1069 mm (42.1 in)..... | 1112 mm (43.8 in)..... | 287 mm (11.3 in) |
| Height..... | 654 mm (25.7 in)..... | 652 mm (25.7 in)..... | 551 mm (21.7 in) |
| Weight.... | 258-272 kg (569-600 lbs)*.. | 258-272 kg (569-600 lbs)*.. | 19.42 kg (42.8 lbs) |
| Diameter.. | 330.2 mm (13 in)..... | 355.6 mm (14 in) | |

*Depending on configuration

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



C18 ACERT

ENGINE

Specifications

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

U.S. EPA Tier 4 Interim, 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 |
| TTA (ATAAC) | — | — | — | — | — | — | 522 | 700 | 1800-1900 |

U.S. EPA Tier 4 Interim Ratings

| | C Rating (Intermittent) | | | D Rating | | |
|--------------------|----------------------------|-----|-----------|----------|-----|-----------|
| | bkW | bhp | rpm | bkW | bhp | rpm |
| TTA (ATAAC) | 563 | 755 | 1800-1900 | 597 | 800 | 1800-1900 |

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

U.S. EPA Tier 4 Final Ratings

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

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

U.S. EPA Tier 4 Interim, 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 |

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

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

Emission standards: U.S. EPA Tier 4 Final, EU Stage IV. EPA/EU Flexibility: U.S. EPA Tier 4 Interim and EU Stage IIIB equivalent ratings.

C18 ACERT

AFTERTREATMENT



Specifications

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

Approximate Dimensions:

| | |
|-----------------------|------------------|
| Length | 1097 mm (43 in) |
| Width | 762 mm (30 in) |
| Height | 468 mm (18 in) |
| Weight | 180 kg (397 lbs) |
| Diameter | 330.2 mm (13 in) |

Multiple customizable configuration options available

Standard Emissions Control Equipment

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

Specifications

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

| | Standard Configuration | PETU Configuration up to 48.4 L (51.1 U.S. qt) |
|--------------------------------|--------------------------|---|
| Approximate Dimensions: | | |
| Length | 1153 mm (45.4 in) | 854 mm (33.6 in) |
| Width | 1112 mm (43.8 in) | 287 mm (11.3 in) |
| Height | 652 mm (25.7 in) | 551 mm (21.7 in) |
| Weight | 258-272 kg (569-600 lb)* | 19.42 kg (42.8 lbs) |

*Depending on configuration

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

Fire Pump

ENGINE



Specifications

C18 ACERT

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

Approximate Dimensions:

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

C18 ACERT Fire Pump Ratings FM Approved, UL Listed

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

Emission standards: U.S. EPA Tier 3 or U.S. EPA Tier 2 emission standards for stationary emergency fire pump engines. FM, UL, and NFPA standards.

C27 ACERT | C32 ACERT ENGINES



C32 ACERT

Specifications

| | C27 ACERT U.S. EPA Tier 4 Interim | C32 ACERT U.S. EPA Tier 4 Interim |
|-----------------------------------|---|---|
| Engine Configuration . . . | V-12, Diesel. | V-12, Diesel |
| Bore x Stroke | 137.2x152.4 mm (5.4x6.0 in) . . . | 145.0x162 mm (5.71x6.38 in) |
| Displacement | 27 liters (1649.5 in ³) | 32.1 liters (1959 in ³) |
| Ship Weight | 3004 kg (6625 lbs) | 3004 kg (6625 lbs) |
| Approximate Dimensions: | | |
| Length | 1874 mm (73.8 in) | 1874 mm (73.8 in) |
| Width | 1600 mm (63.0 in) | 1600 mm (63.0 in) |
| Height | 1370 mm (53.9 in) | 1370 mm (53.9 in) |

C27 ACERT U.S. EPA Tier 4 Interim 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 |
| | 597 | 800 | 1800-2100 | 653 | 875 | 1800-2100 | 709 | 950 | 1800-2100 | 783 | 1050 | 1800-2100 |

C32 ACERT U.S. EPA Tier 4 Interim Ratings

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

Emission standards: U.S. EPA Tier 4 Interim. Nonroad engines greater than 560 bkW (750 bhp) are not currently subject to EU emission standards.

C0.5 | C0.7

ENGINES

C0.5



Specifications

| | C0.5 U.S. EPA Tier 4 Interim Equivalent | C0.7 U.S. EPA Tier 4 Interim Equivalent |
|-----------------------------------|--|--|
| Engine Configuration . . . | In-Line 2, Diesel | In-Line 3, Diesel |
| Bore x Stroke | 67 x 72 mm (2.6 x 2.8 in) | 67 x 72 mm (2.6 x 2.8 in) |
| Displacement | 0.5 liters (31 in ³) | 0.76 liters (46.4 in ³) |
| Ship Weight (NA) | 57 kg (126 lbs) | 71 kg (156.5 lbs) |
| Approximate Dimensions: | | |
| Length | 407 mm (16.00 in) | 480 mm (18.9 in) |
| Width | 371 mm (14.60 in) | 371 mm (14.6 in) |
| Height | 523 mm (20.60 in) | 528 mm (20.8 in) |

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

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

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

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

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.



C1.1

C1.1 | C1.5

ENGINES

Specifications

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

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

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

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

| NA | C Rating (Intermittent) | | rpm |
|----------|----------------------------|------|------|
| | bkW | bhp | |
| | 20.7 | 27.8 | 2200 |
| | 22.3 | 29.9 | 2400 |
| | 23.4 | 31.4 | 2600 |
| | 24.4 | 32.7 | 2800 |
| | 25.1 | 33.7 | 3000 |
| T | | | |
| | 23.1 | 31 | 2200 |
| | 25.2 | 33.8 | 2400 |
| | 27.3 | 36.6 | 2600 |
| | 29.4 | 39.4 | 2800 |
| | 30.0 | 40.2 | 3000 |

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C1.1 | C1.5

POWER UNITS

Specifications

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

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

| C Rating (Intermittent) | | | |
|----------------------------|------|-----|------|
| NA | bkW | bhp | rpm |
| | 17.9 | 24 | 3000 |

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

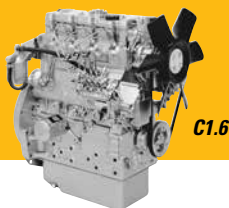
| C Rating (Intermittent) | | | |
|----------------------------|------|------|------|
| NA | bkW | bhp | rpm |
| | 24.2 | 32.5 | 3000 |

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C1.6 | C1.7

ENGINES



C1.6

Specifications

| | C1.6 U.S. EPA Tier 4 Interim Equivalent | C1.7 U.S. EPA Tier 4 Interim Equivalent |
|-----------------------------------|--|---|
| Engine Configuration . . . | In-Line 4, Diesel | In-Line 3, Diesel |
| Bore x Stroke | 77 x 81 mm (3.0 x 3.2 in) | 84 x 100 mm (3.3 x 3.9 in) |
| Displacement | 1.5 liters (92 in ³) | 1.66 liters (101 in ³) |
| Ship Weight (NA) | 106.8 kg (235.5 lbs) | 160 kg (352.7 lbs) |
| Approximate Dimensions: | | |
| Length | 591 mm (23.30 in) | 564 mm (22.2 in) |
| Width | 420 mm (16.5 in) | 453 mm (17.8 in) |
| Height | 576 mm (22.70 in) | 654 mm (25.7 in) |

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

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

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

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

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C2.2

ENGINES

C3.4



Specifications

| | |
|-----------------------------------|--|
| | C2.2 U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent |
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 84 x 100 mm (3.3 x 3.9 in) |
| Displacement | 2.2 liters (135 in ³) |
| Ship Weight | 184 kg (406 lbs) (NA) 194 kg (427.7 lbs) (T, TA) |

Approximate Dimensions:

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

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

| NA | C Rating (Intermittent) | | rpm |
|-------------------|----------------------------|-------------------|------------|
| | bkW Std/Derate | bhp Std/Derate | |
| | 31.0 | 41.6 | 2200 |
| | 34.1 | 45.7 | 2400 |
| | 35.7 / 31.4 | 47.9 / 42.1 | 2600 |
| | 36.4 | 48.8 | 2800 & 300 |
| T | 40 / 36.3 | 53.3 / 48.7 | 2800 |
| | 43 | 57.7 | 2600 |
| | 44.7 | 60.0 | 2800 |
| | 45.5 | 61.0 | 3000 |
| TA (ATAAC) | 49.3 | 66.1 | 2800 |

Emission standards: U.S. EPA Tier 4 Interim equivalent or U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C2.2

POWER UNIT

Specifications

| | U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent |
|-----------------------------------|---|
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 84 x 100 mm (3.3 x 3.9 in) |
| Displacement | 2.2 liters (135 in ³) |
| Ship Weight | 218 kg (480 lbs) (NA) 228 kg (502 lbs) (T) |
| Approximate Dimensions: | |
| Length | 946 mm (37.24 in) (NA) 973 mm (38.3 in) (T) |
| Width | 513 mm (20.3 in) (NA) 590 mm (23.23 in) (T) |
| Height | 854 mm (33.62 in) (NA) 973 mm (38.3 in) (T) |

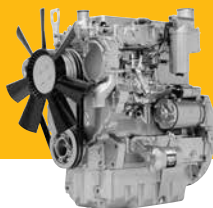
U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent Ratings

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

Emission standards: U.S. EPA Tier 4 Interim equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

3054C

ENGINE



Specifications

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

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

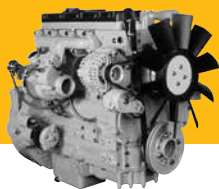
Approximate Dimensions:

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

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

| NA | bkW | C Rating (Intermittent) | |
|------------|---------|----------------------------|-----------|
| | | bhp | rpm |
| | 52-64 | 69.7- 85.8 | 2000-2400 |
| T | 62-74.5 | 83-99.9 | 2000-2400 |
| TA (ATAAC) | 78-97 | 104.5-130 | 2000-2300 |

Emission standards: U.S. EPA Tier 2 equivalent, EU Stage II equivalent
Available for other regulated and non-regulated areas.



C4.4 ENGINE

Specifications

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

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

Approximate Dimensions:

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

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

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

Emission standards: U.S. EPA Tier 3 equivalent (T, TA), EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas. Naturally Aspirated ratings available using EU Flexibility.

C4.4

POWER UNIT

Specifications

| | U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent |
|-----------------------------------|---|
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 4.4 liters (269 in ³) |
| Ship Weight | 465 kg (1025 lbs) (NA) |
| Approximate Dimensions: | |
| Length | 1260 mm (49.6 in) |
| Width | 734 mm (28.9 in) |
| Height | 964 mm (38 in) |

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

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

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C4.4 ACERT

ENGINE



Specifications

| | U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent |
|--------------------------------|---|
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 4.4 liters (269 in ³) |
| Ship Weight | 360 kg (793.7 lbs) (T, TA) |
| Approximate Dimensions: | |
| Length | 631 mm (24.8 in) (T, TA) |
| Width | 626 mm (24.65 in) (T, TA) |
| Height | 823.5 mm (32.4 in) (T) 958 mm (37.72 in) (TA) |

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

| NA | bkW | C Rating (Intermittent) | |
|------------|-----------|----------------------------|------|
| | | bhp | rpm |
| | 61.5-74.5 | 82.5-99 | 2200 |
| TA (ATAAC) | 74.5-106 | 99.5-142 | 2200 |

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C4.4 ACERT

POWER UNIT

Specifications

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

| | |
|----------------------------|-----------------------------------|
| Engine Configuration . . . | In-Line 4, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 4.4 liters (269 in ³) |
| Ship Weight | 520 kg (1146 lbs) |

Approximate Dimensions:

| | |
|------------------|-------------------|
| Length | 1358 mm (53.5 in) |
| Width | 749 mm (29.5 in) |
| Height | 963 mm (37.9 in) |

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

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

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.



C6.6 ACERT

ENGINE

Specifications

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

| | |
|----------------------------|-------------------------------------|
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 6.6 liters (402.8 in ³) |
| Ship Weight (TA) | 506 kg (1116 lbs) |

Approximate Dimensions:

| | |
|------------------|------------------|
| Length | 929 mm (36.6 in) |
| Width | 668 mm (26.3 in) |
| Height | 797 mm (31.4 in) |

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

| TA (ATAAC) | bkW | C Rating (Intermittent) | |
|------------|-------|----------------------------|-------|
| | | bhp | rpm |
| | 89 | 119.0 | 2200 |
| | 95 | 128.0 | 2200 |
| | 116.5 | 156.2 | 2200 |
| | 129 | 173.0 | 2500 |
| | 129.5 | 173.7 | 2200 |
| | 130 | 174.3 | 2500 |
| | 136 | 182.4 | 2200 |
| | 140 | 187.7 | 2200 |
| | 144 | 193.1 | 2200 |
| | 146 | 195.8 | 2200 |
| | 151 | 202.5 | 1800 |
| | 151 | 202.5 | 2200 |
| | 158.5 | 212.6 | 2200 |
| | 159 | 213.2 | 2200 |
| | 168 | 225.3 | 2200 |
| | 176.5 | 236.7 | 2200* |
| | 186 | 249.4 | 2200 |
| | 205 | 274.9 | 2200* |

*Specific Application

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C6.6 ACERT

POWER UNIT

Specifications

| | U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent |
|-----------------------------------|---|
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 105 x 127 mm (4.1 x 5.0 in) |
| Displacement | 6.6 liters (402.8 in ³) |
| Ship Weight (TA) | 709 kg (1563 lbs) |
| Approximate Dimensions: | |
| Length | 1708 mm (67.23 in) |
| Width | 767 mm (30.2 in) |
| Height | 1144 mm (45.0 in) |

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

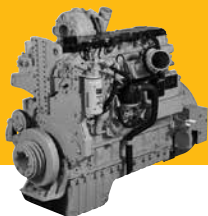
| TA (ATAAC) | C Rating (Intermittent) | | |
|------------|----------------------------|-------|------|
| | bkW | bhp | rpm |
| | 129.5 | 173.7 | 2200 |
| | 130 | 174.3 | 2500 |
| | 151 | 202.5 | 1800 |
| | 151 | 202.5 | 2200 |
| | 168 | 225.3 | 2200 |

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C7 ACERT

ENGINE



Specifications

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

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

Approximate Dimensions:

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

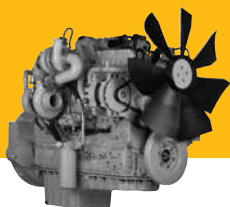
China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C7.1

ENGINE



Specifications

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

| | |
|-----------------------------------|--------------------------------------|
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 105 x 135 mm (4.13 x 5.3 in) |
| Displacement | 7.01 liters (427.7 in ³) |
| Ship Weight | 506 kg (1115 lbs) |

Approximate Dimensions:

| | |
|-------------------------|------------------|
| Length | 929 mm (35.5 in) |
| Width | 668 mm (26.2 in) |
| Height | 797 mm (31.4 in) |

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

| TA | C Rating (Intermittent) | | |
|----|----------------------------|-----|------|
| | bkW | bhp | rpm |
| | 112 | 150 | 1950 |
| | 129 | 172 | 2200 |
| | 137 | 183 | 2200 |
| | 145 | 194 | 2200 |
| | 162 | 220 | 2200 |

Emission standards: China Stage II, U.S. EPA Tier 2 equivalent, EU Stage II equivalent.

C7.1 ACERT

ENGINE



Specifications

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

| | |
|-----------------------------------|--------------------------------------|
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 105 x 135 mm (4.13 x 5.3 in) |
| Displacement | 7.01 liters (427.7 in ³) |
| Ship Weight | 524 kg (1155 lbs) |

Approximate Dimensions:

| | |
|-------------------------|-------------------|
| Length | 929 mm (36.5 in) |
| Width | 725 mm (28.5 in) |
| Height | 835 mm (32.87 in) |

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

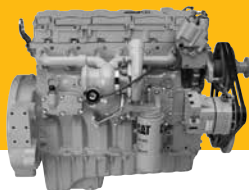
| TA | bkW | C Rating (Intermittent) | |
|----|-----|----------------------------|------|
| | | bhp | rpm |
| | 116 | 156 | 2200 |
| | 129 | 173 | 2200 |
| | 151 | 202 | 2200 |
| | 159 | 215 | 2200 |
| | 168 | 225 | 2200 |
| | 186 | 250 | 2200 |
| | 205 | 275 | 2200 |

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent.
In production October, 2013.

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C9 ACERT

ENGINE



Specifications

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

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

Approximate Dimensions:

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

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent 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 | 275 | 1800-2200 | 223 | 300 | 1800-2200 | 242 | 325 | 1800-2200 | 280 | 375 | 1800-2200 |
| | — | — | — | — | — | — | 261 | 350 | 1800-2200 | — | — | — |

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

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C9 ACERT

POWER UNIT

Specifications

| | |
|-----------------------------------|---|
| | China Stage II, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent |
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 112 x 149 mm (4.41 x 5.87 in) |
| Displacement | 8.8 liters (537 in ³) |
| Ship Weight | 1490 kg (3285 lbs) |
| Approximate Dimensions: | |
| Length | 2174.4 mm (85.81 in) |
| Width | 987.8 mm (38.89 in) |
| Height | 2008.1 mm (79.06 in) |

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

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

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

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C11 ACERT

ENGINE



Specifications

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

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

Approximate Dimensions:

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

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

| A Rating (Continuous) | | | B Rating | | | C Rating (Intermittent) | | | D Rating | | | E Rating | | |
|--------------------------|-----|-------|----------|-----|-------|----------------------------|-----|-------|----------|-----|-------|----------|-----|-------|
| bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm |
| TA (ATAAC) | | | | | | | | | | | | | | |
| 242 | 325 | 1800- | 261 | 350 | 1800- | 287 | 385 | 1800- | 313 | 420 | 1800- | 336 | 450 | 1800- |
| | | 2100 | | | 2100 | | | 2100 | | | 2100 | | | 2100 |

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C11 ACERT

POWER UNIT

Specifications

| | China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent |
|--|---|
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 130 x 140 mm (5.12 x 5.51 in) |
| Displacement | 11.1 liters (677 in ³) |
| Ship Weight | 1692 kg (3730 lbs) |
| Approximate Dimensions (engine only): | |
| Length | 1203 mm (47.4 in) |
| Width | 1054 mm (41.5 in) |
| Height | 1186 mm (46.7 in) |

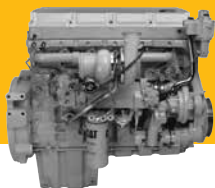
China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C13 ACERT

ENGINE



Specifications

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

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

Approximate Dimensions:

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

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

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

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

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C13 ACERT

POWER UNIT

Specifications

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

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

Approximate Dimensions:

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

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

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

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

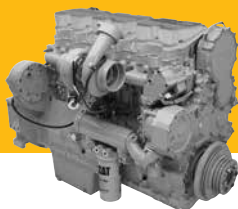
| TA (ATAAC) | B Rating | | | C Rating (Intermittent) | | |
|------------|----------|-----|-----------|----------------------------|-----|-----------|
| | bkW | bhp | rpm | bkW | bhp | rpm |
| | 310 | 415 | 1800-2100 | 328 | 440 | 1800-2100 |

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C15 ACERT

ENGINE



Specifications

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

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

Approximate Dimensions:

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

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

| A Rating (Continuous) | B Rating | | | C Rating (Intermittent) | | | D Rating | | | E Rating | | | | |
|--------------------------|----------|-----------|-----|----------------------------|-----------|-----|----------|-----------|-----|----------|-----------|-----|-----|-----------|
| | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm | | |
| 328 | 440 | 1800-2100 | 354 | 475 | 1800-2100 | 403 | 540 | 1800-2100 | 433 | 580 | 1800-2100 | 444 | 595 | 1800-2100 |

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C15 ACERT

POWER UNIT

Specifications

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

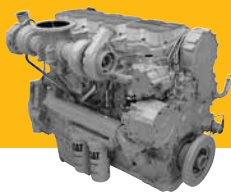
China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C18 ACERT

ENGINE



Specifications

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

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

Approximate Dimensions:

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

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

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

U.S. EPA Tier 2 Equivalent Ratings

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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent, or Non-certified

Ratings below 560 bkW (751 bhp) available using EPA (U.S.) Flexibility and EU Flexibility, and for other global regulated and non-regulated areas. Ratings above 560 bkW (751 bhp) available using EPA (U.S.) Flexibility and for other global regulated and non-regulated areas.

Non-certified Ratings

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

C18 ACERT

POWER UNIT

Specifications

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

| | |
|----------------------------|--|
| Engine Configuration . . . | In-Line 6, Diesel |
| Bore x Stroke | 145 x 183 mm (5.71 x 7.2 in) |
| Displacement | 18.1 liters (1104.53 in ³) |
| Ship Weight | 2197.1 kg (4843.7 lbs) |

| | |
|---------------------------------------|-------------------|
| Approximate Dimensions (engine only): | |
| Length | 1388 mm (54.6 in) |
| Width | 921 mm (36.3 in) |
| Height | 1243 mm (48.9 in) |

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

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

Non-certified Ratings

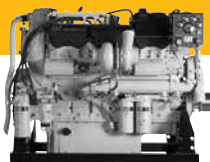
| TA (ATAAC) | A Rating (Continuous) | | | B Rating | | | C Rating (Intermittent) | | |
|------------|--------------------------|-----------|-------|----------|-----------|-----|----------------------------|-----------|-----|
| | bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm |
| 429 | 575 | 1800-2100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

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent, or Non-certified

Ratings below 560 bkW (751 bhp) available using EPA (U.S.) Flexibility and EU Flexibility, and for other global regulated and non-regulated areas.

C27 ACERT | C32 ACERT

ENGINES



C32 ACERT

Specifications

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

C27 ACERT U.S. EPA Tier 2 Equivalent Ratings

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

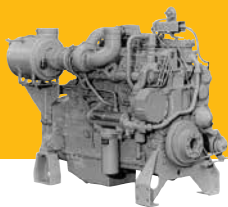
C32 ACERT U.S. EPA Tier 2 Equivalent Ratings

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

Emission standards: U.S. EPA Tier 2 equivalent

Available using EPA (U.S.) Flexibility, and for other global regulated and non-regulated areas.

*Available in rear turbo configuration. Dimensions will vary.



3406C

ENGINE

Specifications

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

Non-certified Ratings

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

Emission standards: Non-certified; Available for global non-regulated areas

3406C

POWER UNIT

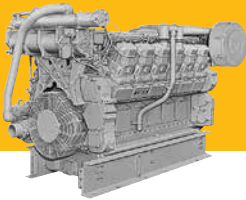
Specifications

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

Non-certified Ratings

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

Emission standards: Non-certified; Available for global non-regulated areas



3512

3500 ENGINES

Specifications

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

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

3508 Ratings

| 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

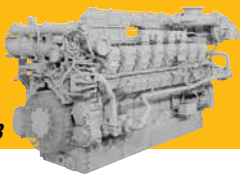
| TA | A Rating (Continuous) | | | C Rating (Intermittent) | | |
|----|--------------------------|------|------|----------------------------|------|------|
| | bkW | bhp | rpm | bkW | bhp | rpm |
| | 1011 | 1355 | 1200 | 1242 | 1665 | 1300 |
| | 1275 | 1710 | 1800 | 1492 | 2000 | 1800 |

Emission standards: Non-certified; Available for global non-regulated areas

3500B | 3500C

ENGINES

3516B



Specifications

| | 3508B | 3512B |
|---------------------------------|-------------------------------------|-------------------------------------|
| Engine Configuration ... | V8, Diesel | V-12, Diesel |
| Bore x Stroke | 170 x 190 mm (6.7 x 7.5 in.) | 170 x 190 mm (6.7 x 7.5 in) |
| Displacement | 34.5 liters (2105 in ³) | 51.8 liters (3158 in ³) |
| Ship Weight | 4309 kg (9500 lbs) | 6078 kg (13 400 lbs) |
| Approximate Dimensions: | | |
| Length | 2462 mm (97 in) | 3067 mm (120.8 in) |
| Width | 1703 mm (67 in) | 1785 mm (70.3 in) |
| Height | 1720 mm (68 in) | 1806 mm (71.1 in) |

| | 3512C U.S. EPA Tier 2 Equivalent | 3516B |
|---------------------------------|-------------------------------------|-----------------------------------|
| Engine Configuration ... | V-12, Diesel | V-16, Diesel |
| Bore x Stroke | 170 x 190 mm (6.7 x 7.5 in.) | 170 x 190 mm (6.7 x 7.5 in) |
| Displacement | 51.8 liters (3158 in ³) | 69 liters (4210 in ³) |
| Ship Weight | 6078 kg (13 400 lbs) | 7484 kg (16 500 lbs) |
| Approximate Dimensions: | | |
| Length | 3067 mm (120.8 in) | 3008 mm (119 in) |
| Width | 1785 mm (70.3 in) | 1443 mm (57 in) |
| Height | 1806 mm (71.1 in) | 1980 mm (78 in) |

Mobile Equipment Ratings

3508B Ratings

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

3512B Ratings

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

3516B Ratings

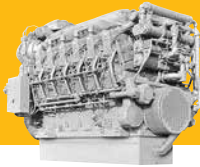
| A Rating (Continuous) | | | B Rating | | | C Rating (Intermittent) | | |
|--------------------------|------|------|----------|------|------|----------------------------|------|------|
| bkW | bhp | rpm | bkW | bhp | rpm | bkW | bhp | rpm |
| TA (SCAC) | | | | | | | | |
| 1492 | 2000 | 1800 | 1566 |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

3512C U.S. EPA Tier 2 Equivalent Ratings

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

Emission standards:
U.S. EPA Tier 2 equivalent or Non-certified.

U.S. EPA Tier 2 ratings available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas. Non-certified ratings available for non-regulated areas.



3612

3600 ENGINES

Specifications

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

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

3606 Ratings

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

3612 Ratings

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

3608 Ratings

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

3616 Ratings

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

Emission standards: Non-certified; Available for global non-regulated areas

Fire Pump

ENGINES



Specifications

C18 ACERT

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

Approximate Dimensions:

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

C18 ACERT Fire Pump Ratings

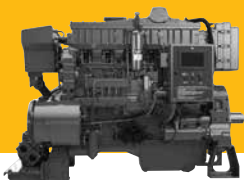
FM Approved, UL Listed

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

Emission standards: U.S. EPA Tier 3 or U.S. EPA Tier 2 for stationary emergency fire pump engines, or Non-certified. FM, UL, and NFPA standards.

Ratings below 560 bkW (751 bhp) conform with current EPA (U.S.) Tier 3 emission standards for stationary emergency fire pump engines. Ratings above 560 bkW (751 bhp) conform with current EPA (U.S.) Tier 2 emission standards for stationary emergency fire pump engines.

Fire Pump ENGINES



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

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

*3406C wet manifolds

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

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

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

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

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

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

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

*3412C wet manifolds

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

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

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

Label and NSPS Regulations

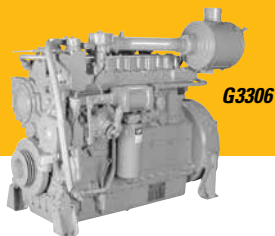
Label and NSPS Regulations for Gas Engines

Stationary Use Only Label

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

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

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



G3306

G3300

GAS ENGINES

Specifications

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

G3304 Ratings

| Engine — Continuous | 1800 rpm | |
|-----------------------------|----------|-----|
| | bkW | bhp |
| G3304 NA² | 71 | 95 |

G3306 Ratings

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

¹54°C/130°F water to aftercooler

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

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

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

G3400

GAS ENGINES

G3408



Specifications

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

G3406 Ratings

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

G3408 Ratings

| Engine — Continuous | 1500 rpm | | 1800 rpm | |
|--------------------------------|----------|-----|----------|-----|
| | bkW | bhp | bkW | bhp |
| G3408 NA ² | — | — | 190 | 255 |
| G3408 TA ^{1,2} | 249 | 332 | — | — |
| G3408 TA ^{1,3} | — | — | 298 | 400 |
| G3408C LE ¹ | — | — | 317 | 425 |

G3412 Ratings

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

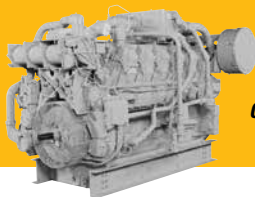
¹54°C/130°F Water to Aftercooler

²With customer-supplied air fuel ratio control and aftertreatment

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

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

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



G3512

G3500

GAS ENGINES

Specifications

| | G3508B LE | G3512B LE |
|--------------------------------|-------------------------------------|-------------------------------------|
| Bore x Stroke | 170 x 190 mm (6.7 x 7.5 in) | 170 x 190 mm (6.7 x 7.5 in) |
| Displacement | 34.5 liters (2105 in ³) | 51.8 liters (3158 in ³) |
| Ship Weight | 3941 kg (8688 lbs) | 4950 kg (10,913 lbs) |
| Approximate Dimensions: | | |
| Length | 2522 mm (99 in) | 3023 mm (119 in) |
| Width | 2014 mm (79 in) | 2220 mm (87.4 in) |
| Height | 2131 mm (84 in) | 2136 mm (84.1 in) |

| | G3516B LE | G3520B LE |
|--------------------------------|-------------------------------------|-------------------------------------|
| Bore x Stroke | 170 x 190 mm (6.7 x 7.5 in) | 170 x 190 mm (6.7 x 7.5 in) |
| Displacement | 69.0 liters (4211 in ³) | 86.3 liters (5263 in ³) |
| Ship Weight | 8401 kg (18,520 lbs) | 11 168 kg (24,622 lbs) |
| Approximate Dimensions: | | |
| Length | 3400 mm (133 in) | 4180 mm (164 in) |
| Width | 1844 mm (73 in) | 1755 mm (69 in) |
| Height | 2286 mm (90 in) | 2385 mm (94 in) |

G3508 Ratings

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

G3516 Ratings

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

G3512 Ratings

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

G3520B Ratings

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

¹54°C/130°F Water to Aftercooler

²With customer-supplied air fuel ratio control and aftertreatment

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

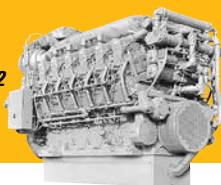
Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

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

G3600

GAS ENGINES

G3612



Specifications

| | G3606 (TA) | G3608 (TA) |
|--------------------------------|--|--|
| Bore x Stroke | 300 x 300 mm (11.8 x 11.8 in) | 300 x 300 mm (11.8 x 11.8 in) |
| Displacement | 127.2 liters (37 762 in ³) | 169.6 liters (10 350 in ³) |
| Ship Weight | 15 640 kg (34 560 lbs) | 19 000 kg (41 888 lbs) |
| Approximate Dimensions: | | |
| Length | 4638 mm (183 in) | 5465 mm (215 in) |
| Width | 1744 mm (69 in) | 1868 mm (74 in) |
| Height | 2921 mm (115 in) | 2922 mm (115 in) |

| | G3612 (TA) | G3616 (TA) |
|--------------------------------|--|--|
| Bore x Stroke | 300 x 300 mm (11.8 x 11.8 in) | 300 x 300 mm (11.8 x 11.8 in) |
| Displacement | 254.4 liters (15 528 in ³) | 339.2 liters (20 698 in ³) |
| Ship Weight | 25 084 kg (55 300 lbs) | 29 892 kg (65 900 lbs) |
| Approximate Dimensions: | | |
| Length | 4735 mm (186 in) | 5661 mm (223 in) |
| Width | 2380 mm (94 in) | 2380 mm (94 in) |
| Height | 3220 mm (127 in) | 3208 mm (126 in) |

G3606 Ratings

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

G3612 Ratings

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

G12CM34 Ratings

| | 750 rpm | |
|---------------------|---------|------|
| Engine — Continuous | bkW | bhp |
| G12CM34 | 4575 | 6135 |
| G12CM34 | 6100 | 8180 |

³32°C/90°F Water to Aftercooler

²43°C/110°F Water to Aftercooler

¹54°C/130°F Water to Aftercooler

G3608 Ratings

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

G3616 Ratings

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

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

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

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

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



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

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



Mini Industrial Panel Display (MIPD)

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

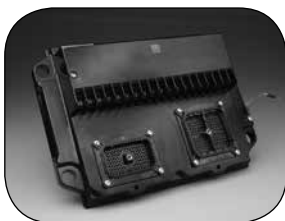


For additional information visit www.catelectronics.com

Technology

ADEM A4 ECU

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



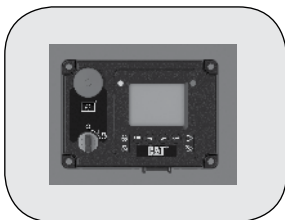
Cat Messenger

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



Base Tier 4 Engine Control Panel

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



For additional information visit www.catelectronics.com

Notes

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.

World Headquarters:

Caterpillar Inc.

Peoria, Illinois, U.S.A.

Tel: (309) 578-6298

Fax: (309) 578-2559

Mailing Address:

Caterpillar Inc.

Industrial Power Systems

P.O. Box 610

Mossville, IL 61552

www.cat-industrial.com

E-mail: 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.

LEGH0002-04 (7-14)

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