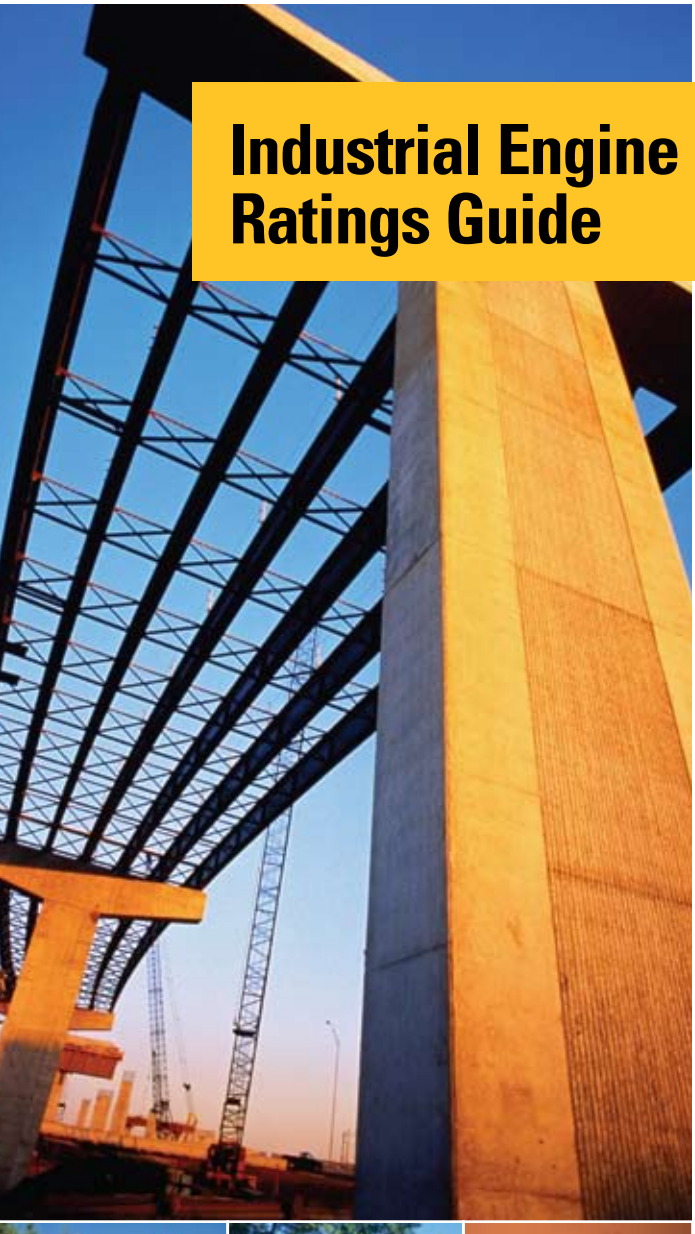
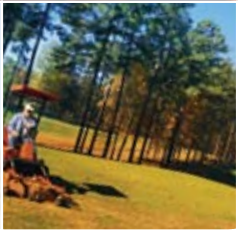
Industrial Engine Ratings Guide





CATERPILLAR®

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Diesel Engine Rating Definitions

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

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

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

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

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

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

Rating Conditions

Diesel Engines — up to 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 — 7 liter and higher
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.

Gas Engines
Ratings are based on SAE J1349 standard conditions of 100 kPa (29.61 in Hg) and 25°C (77°F). These ratings also apply at ISO3046, DIN6271, and BS5514 standard conditions of 100 kPa (29.61 in Hg) and 27°C (81°F); and API 7B-11C standard conditions of 99 kPa (29.28 in Hg) and 29°C (85°F) also apply.

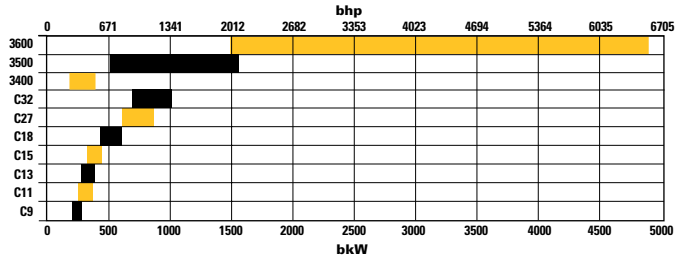
Ratings are based on dry natural gas having an LHV of 35.54 MJ/N•m^3 (905 btu/ft^3). Variations in altitude, temperature, and gas composition from standard conditions may require a reduction in engine horsepower.

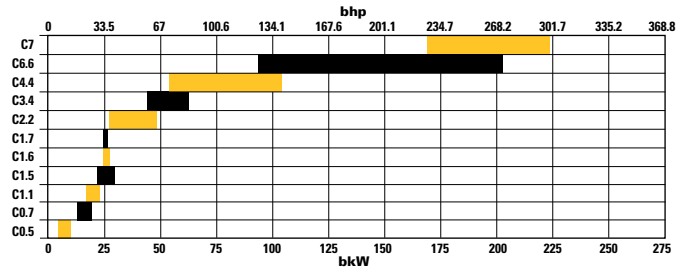
Turbocharged-Aftercooled ratings apply to 1525 m (5000 ft) and 25°C (77°F).

ISO 9001:2000 Certification

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

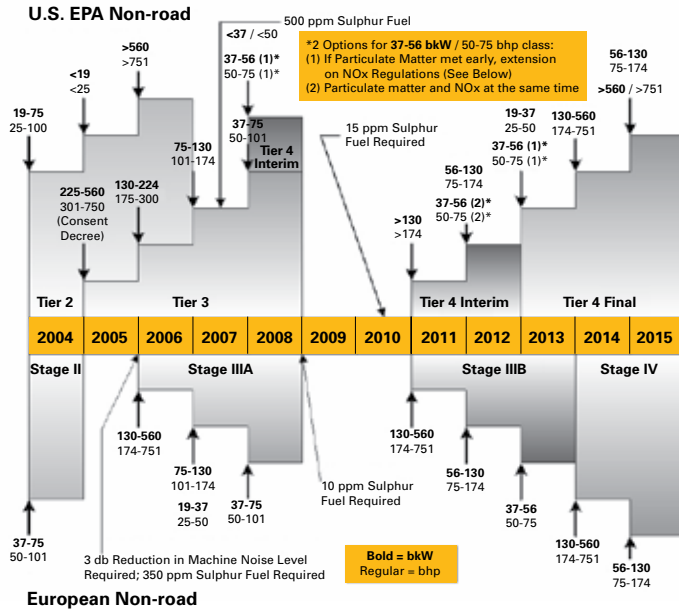
Match a Reliable Cat® Engine to Your Application





EPA & EU NON-ROAD EMISSIONS REGULATIONS*

Tier 3 Changes for Consent Decree Signatories



*Additional information available at www.dieselnet.com

EPA Stationary Regulations

For important information related to the New Source Performance Standard (NSPS) for diesel stationary engines, refer to the EPA web site at www.epa.gov.

Engine Listing by Emissions Tiers

Tier 4, Stage IIIA Compliant
C0.5, C0.7
C1.1, C1.5
C1.6, C1.7
C2.2

Tier 3, Stage IIIA Compliant
C3.4
C4.4 (T, TA)
C4.4 ACERT®
C6.6 ACERT
C7 ACERT
C9 ACERT
C11 ACERT
C13 ACERT
C15 ACERT
C18 ACERT (A, B, and C ratings)

Stage IIIA Compliant
C4.4 (NA)

Tier 2, Stage II Compliant
C18 ACERT (D and E ratings)
C27 ACERT, C32 ACERT

Tier 1, Stage I Compliant
3508B, 3512B, 3516B

Non-Certified
3508, 3512, 3516

Abbreviations

NA ..... Naturally Aspirated
T ..... Turbocharged
TA ..... Turbocharged/Aftercooled
TTA ..... Twin Turbo Aftercooled
PC ..... Precombustion Chamber
ATAAC ..... Air-to-Air Aftercooled
bhp ..... brake horsepower
bkW ..... brake kilowatts
LE ..... Low Emission
JWAC ..... Jacket Water Aftercooled
SCAC ..... Separate Circuit Aftercooled
E ..... Electronic
STD ..... Standard (stoichiometric) engine highest power rating
CAT ..... standard (stoichiometric) engine Catalyst rating
IOPU ..... Industrial Open Power Unit
ECU ..... Electronic Control Unit
FIE ..... Fuel Injection Equipment
NSPS ..... New Source Performance Standard
SI ..... Spark Ignited
SI NSPS ..... Spark Ignited New Source Performance Standard

C0.5

Specifications

	C0.5	C0.7
Bore x Stroke	67 x 72 mm (2.6 x 2.8 in)	67 x 72 mm (2.6 x 2.8 in)
Displacement	0.5 liters (30.9 in³)	0.7 liters (46.5 in³)
Ship Weight (NA)	57 kg (126 lbs)	76 kg (168 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 Ratings In-Line 2

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

C0.7 Ratings In-Line 3

C Rating (Intermittent)			
NA	**bkW**	**bhp**	**rpm**
	12.2	16.3	2800
	13.2	17.7	3000
	15.3	20.5	3600

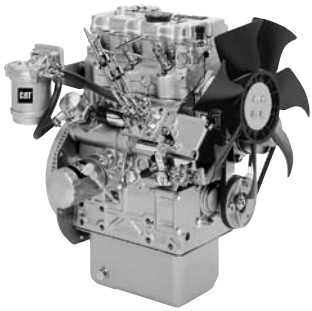
Benefits

- Increase of horsepower and torque capabilities by 10%
- 500-hour service intervals
- Single-side servicing

Abbreviations used:
NA.....Naturally Aspirated

EPA Compliant for current year

Meets 2008 Tier 4, Stage IIIA emissions requirements. Tier 4 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C1.1

Specifications

	C1.1	C1.5
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 in³)	1.496 liters (91 in³)
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	406 mm (15.98 in)	422 mm (16.60 in)
Height	576 mm (22.67 in)	643 mm (25.30 in)

C1.1 Ratings In-Line 3

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	**Std/Derate**	**Std/Derate**	
	14.7 / 13.7	19.7 / 18.4	2200
	17.3 / 15.8	23.2 / 21.2	2600
	18.5 / 16.8	24.8 / 22.6	2800
	19.7 / 17.7	26.4 / 23.7	3000
	21.0	28.2	3400

C1.1 IOPU Ratings In-Line 3

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

C1.5 Ratings In-Line 3

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA			
	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

C1.5 IOPU Ratings In-Line 3

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

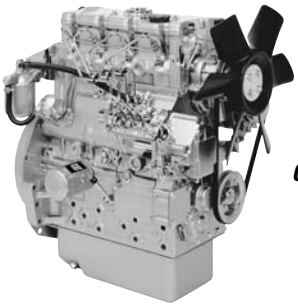
Benefits

- Increase of horsepower and torque capabilities by 10%
- 500-hour service intervals
- Single-side servicing

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

EPA Compliant for current year

Meets 2008 Tier 4 and Tier 4 Interim, Stage IIIA emissions requirements. Tier 4 and Tier 4 Interim refer to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C1.6

Specifications

	C1.6	C1.7
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 100 mm (3.3 x 3.9 in)
Displacement	1.5 liters (92 in³)	1.66 liters (101 in³)
Ship Weight (NA)	106.8 kg (235.5 lbs)	194 kg (427.7 lbs)
Approximate Dimensions:		
Length	591 mm (23.30 in)	572 mm (22.5 in)
Width	393 mm (15.50 in)	422 mm (16.6 in)
Height	576 mm (22.70 in)	664 mm (26.1 in)

C1.6 Ratings In-Line 4

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

C1.7 Ratings In-Line 3

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

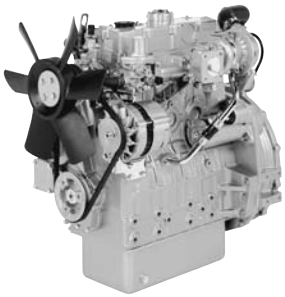
Benefits

- Increase of horsepower and torque capabilities by 10%
- 500-hour service intervals
- Single-side servicing

Abbreviations used:
NA.....Naturally Aspirated

EPA Compliant for current year

Meets 2008 Tier 4 Interim, Stage IIIA emissions requirements. Tier 4 Interim refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C2.2

Specifications

	C2.2	C3.4 (3044C)
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)	94 x 120 mm (3.7 x 4.72 in)
Displacement	2.2 liters (135 in^3)	3.3 liters (201 in^3)
Ship Weight (NA)	184 kg (406 lbs) **(NA)**	245 kg (540 lbs) **(NA)**
	194 kg (427.7 lbs) **(T, TA)**	265 kg (584 lbs) **(T)**
Approximate Dimensions:		
Length	661.5 mm (26.0 in) **(NA)**	781 mm (30.70 in) **(NA)**
Width	439 mm (17.3 in) **(NA)**	589.8 mm (23.20 in) **(NA)**
Height	676 mm (26.6 in) **(NA)**	722 mm (28.40 in) **(NA)**
Length	662 mm (26.1 in) **(T, TA)**	784 mm (30.90 in) **(T)**
Width	489 mm (19.3 in) **(T, TA)**	589.8 mm (23.20 in) **(T)**
Height	698 mm (27.5 in) **(T, TA)**	821.3 mm (32.30 in) **(T)**

C2.2 Ratings In-Line 4

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA	**Std/Derate**	**Std/Derate**	
	31.0	41.6	2200
	34.1	45.7	2400
	35.7 / 31.4	47.9 / 42.1	2600
	37.3 / 32.8	50.0 / 43.9	2800
	38.0 / 34.0	51.0 / 45.6	3000
T			
	39.8	53.3	2600
	43	57.7	2600
	44.7	60.0	2800
	45.5	61.0	3000
TA			
	49.3	66.1	2800

C2.2 IOPU Ratings In-Line 4

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

C3.4 Ratings In-Line 4

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA			
	47	63	2500
T			
	55	73.7	2500
	62	83	2500

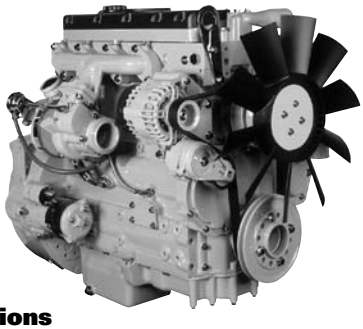
Benefits

- Increase of horsepower and torque capabilities by 10%
- 500-hour service intervals
- Single-side servicing

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

EPA Compliant for current year

Meets 2008 Tier 3 and Tier 4 Interim, Stage IIIA emissions requirements. Tier 3 and Tier 4 Interim refer to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C4.4

Specifications

	C4.4
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)**

C4.4 Ratings In-Line 4

C Rating (Intermittent)			C Rating (Intermittent)			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
NA			**T**			**TA (ATAAC)**		
54	72	2200	55.5-74.5	74.4-99.9	2200-2400	68-83	91.2-111.3	2200-2400
55.9	75	2200						

C4.4 IOPU Ratings In-Line 4

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
NA		
66	88.5	2200
TA		
74	99.2	2200

Features

- Mechanical control
- Identical major hook-up points
- New options including multi-vee belt
- Auxiliary drive capability — SAE A PTO, SAE B PTO

Benefits

- Choice of naturally aspirated, turbocharged, and turbocharged/aftercooled models
- Minimum impact to engine bay installation
- Installation and noise suppression costs reduced
- Maintained fuel economy
- Improved power and torque matching
- Faster diagnostics

Abbreviations used:

NA.....Naturally Aspirated
T.....Turbocharged
TA.....Turbocharged/Aftercooled
ATAAC.....Air-to-Air Aftercooled

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. C4.4 Naturally Aspirated rating meets Stage IIIA emissions requirements only. Tier 3 refers to EPA (U.S.) requirements. Stage III refers to European requirements.

C4.4 ACERT

Specification

	C4.4 ACERT
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in³)
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)**

C4.4 ACERT Ratings In-Line 4

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

C4.4 ACERT IOPU Ratings In-Line 4

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
TA		
100.2	134.4	2200

Features

- Electronic control
- Identical major hook-up points
- New options including multi-vee belt
- Auxiliary drive capability — SAE A PTO, SAE B PTO

Benefits

- Choice of naturally aspirated, turbocharged, and turbocharged/aftercooled models
- Minimum impact to engine bay installation
- Installation and noise suppression costs reduced
- Maintained fuel economy
- Improved power and torque matching
- Faster diagnostics

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

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. C4.4 Naturally Aspirated rating meets Stage IIIA emissions requirements only. Tier 3 refers to EPA (U.S.) requirements. Stage III refers to European requirements.

C6.6 ACERT

Specifications

	C6.6 ACERT	C6.6 ACERT IOPU
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)	105 x 127 mm (4.1 x 5.0 in)
Displacement	6.6 liters (402.8 in³)	6.6 liters (402.8 in³)
Ship Weight (TA)	506 kg (1116 lbs)	709 kg (1563 lbs)
Approximate Dimensions:		
Length	929 mm (36.6 in)	1708* mm (67.23* in)
Width	668 mm (26.3 in)	767 mm (30.2 in)
Height	797 mm (31.4 in)	1144 mm (45.0 in)

C6.6 ACERT Ratings
In-Line 6

C Rating (Intermittent)		
bkW	**bhp**	**rpm**
TA (ATAAC)		
89	119.4	2200
95	128	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**

C6.6 ACERT IOPU Ratings
In-Line 6

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

Features
- ADEM™ A4 ECU
- Cat Common Rail Fuel System
- Oil lubricated fuel pump
- 4-valve cross flow cylinder head
- Integrated fuel lift pump
- Auxiliary drive capability — SAE A PTO SAE B PTO

Benefits
- Insulated timing cover, valve cover, and isolated oil pan reduce noise up to 3-5 dBa
- Multi-V belt reduces maintenance and belt wear
- Outstanding cold start capability to -25°F/-32°C using glow plugs
- Either side servicing
- IOPU options include 12- or 24-volt alternator, pusher or puller fan, and air compressor.

Abbreviations used:
TA.....Turbocharged/Aftercooled
ATAAC.....Air-to-Air Aftercooled
IOPU..... Industrial Open Power Unit
ECU..... Electronic Control Unit

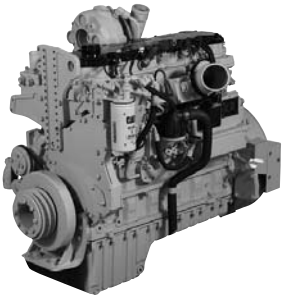
EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.

*Includes fitted air cleaner

**Specific Application

C7 ACERT



Specifications

	C7 ACERT
Bore x Stroke	110 x 127 mm (4.33 x 5.0 in)
Displacement	7.2 liters (442 in³)
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)

C7 ACERT Ratings In-Line 6

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

C7 ACERT IOPU Ratings In-Line 6

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

Features

- ADEM™ A4 ECU
- HEUI™ fuel system
- Enhanced cylinder block
- Mono steel piston
- Side cover breather

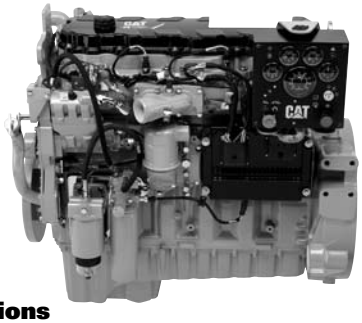
Benefits

- Wastegated turbocharger optimizes airflow
- Cleaner combustion process
- Lightweight block design
- Easy installation in OEM equipment
- Improved joints reduce oil and coolant loss from engine

Abbreviations used:
ATAAC.....Air-to-Air Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C9 ACERT

Specifications

	C9 ACERT
Bore x Stroke	112 x 149 mm (4.41 x 5.87 in)
Displacement	8.8 liters (537 in³)
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)

C9 ACERT Ratings In-Line 6

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
ATAAC											
205	275	1800-2200	223	300	1800-2200	242	325	1800-2200	280	375	1800-2200
—	—	—	—	—	—	261	350	1800-2200	—	—	—

C9 ACERT IOPU Ratings In-Line 6

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

Features

- ADEM™ A4 ECU
- HEUI™ fuel system
- High efficiency oil filters
- Fractured split connecting rod
- Lightweight cylinder block
- Wastegated turbocharger

Benefits

- Mid-supported wet liner allows better fuel consumption and reduced emissions
- Extended life with induction-hardened internal surface
- Optimized fuel injector control
- New oil filter reconfigured to reduce wear on engine

Abbreviations used:
ATAAC.....Air-to-Air Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.

C11 ACERT

Specifications

	C11 ACERT
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)

C11 ACERT Ratings In-Line 6

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

Features

- ADEM™ A4 ECU
- MEUI fuel system
- Single-piece cross flow cylinder head
- High pressure fuel system
- Mono steel piston
- Leak-free technology
- Single/dual rear PTO
- Multi-layer steel head gaskets

Benefits

- Gear train is redesigned with increased capacity and decreasing noise volume
- Option of laminated front housing significantly diminishes decibel output
- Oil pan isolation reduces noise volume
- Multi-layered steel hard gasket improves durability
- Steel spacer between two layers of spring steel increases gasket resilience
- Gasket resilience increases engine life by decreasing leakage
- New highly efficient oil filter reduces engine wear and enhances contamination control

Abbreviations used:
ATAAC.....Air-to-Air Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.

C13 ACERT

Specifications

	C13 ACERT
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (763 in³)
Ship Weight	1149 kg (2533 lbs)
Approximate Dimensions:	
Length	1203 mm (47.4 in)
Width	1011 mm (39.8 in)
Height	1186 mm (46.7 in)

C13 ACERT Ratings In-Line 6

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

Features

- ADEM™ A4 ECU
- MEUI fuel system
- Single-piece cross flow cylinder head
- High pressure fuel system
- Mono steel piston
- Leak-free technology
- Single/dual rear PTO
- Multi-layer steel head gaskets

Benefits

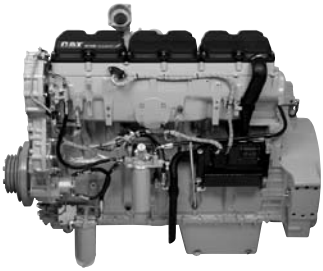
- Gear train is redesigned with increased capacity and decreasing noise volume
- Option of laminated front housing significantly diminishes decibel output
- Oil pan isolation reduces noise volume
- Multi-layered steel hard gasket improves durability
- Steel spacer between two layers of spring steel increases gasket resilience
- Gasket resilience increases engine life by decreasing leakage
- New highly efficient oil filter reduces engine wear and enhances contamination control

Abbreviations used:
ATAAC.....Air-to-Air Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.

C15 ACERT



Specifications

	C15 ACERT
Bore x Stroke	137.2 x 171.4 mm (5.4 x 6.75 in)
Displacement	15.2 liters (927.56 in³)
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)

C15 ACERT Ratings In-Line 6

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

Features

- ADEM™ A4 ECU
- MEUI fuel system
- Single-piece cross flow cylinder head
- High pressure fuel system
- Mono steel piston
- Leak-free technology
- Single/dual rear PTO
- Multi-layer steel head gaskets

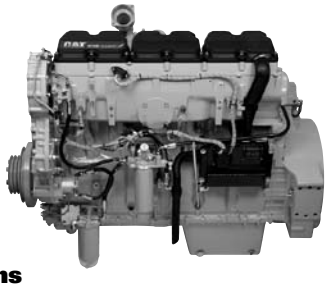
Benefits

- Gear train is redesigned with increased capacity and decreasing noise volume
- Option of laminated front housing significantly diminishes decibel output
- Multi-layered steel hard gasket improves durability
- Steel spacer between two layers of spring steel increases gasket resilience
- Gasket resilience increases engine life by decreasing leakage
- New highly efficient oil filter reduces engine wear and enhances contamination control

Abbreviations used:
ATAAC.....Air-to-Air Aftercooled
TA.....Turbocharged/Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C18 ACERT

Specifications

	C18 ACERT
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in³)
Ship Weight	1673 kg (3688 lbs)
Approximate Dimensions:	
Length	1388 mm (54.6 in) **(T)**
	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)**

C18 ACERT Ratings In-Line 6

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating*			E Rating*		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (ATAAC)														
429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100	—	—	—	—	—	—
TTA (ATAAC)														
—	—	—	—	—	—	522	700	1800-2100	571	765	1800-2100	597	800	1800-2100

Features

- ADEM™ A4 ECU
- MEUI fuel system
- Twin parallel turbocharger on 700 horsepower and above
- Best in power class density
- Monotherm piston

Benefits

- Narrow rings of monotherm piston and tighter tolerance allows superior control
- Unique twin parallel turbo design providing superb response with low fuel consumption
- Fuel efficiency gives savings in operating costs and cleaner air
- MEUI fuel system is highly reliable due to its design and volume of units active in the market
- New connecting rods allow for better retention and clamping force

Abbreviations used:

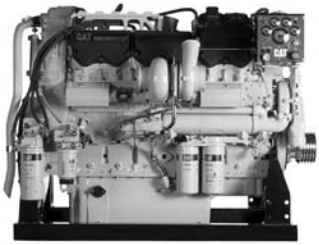
ATAAC.....Air-to-Air Aftercooled
TA.....Turbocharged/Aftercooled
TTA.....Twin Turbocharged/Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

A, B, and C ratings meet Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) requirements. Stage IIIA refers to European requirements.

*D and E ratings meet Tier 2 emissions requirements above 559 bkW (751 bhp). Tier 2 refers to EPA (U.S.) requirements.

C32 ACERT



Specifications*

	C27 ACERT	C32 ACERT
Bore x Stroke	137.2 x 152.4 mm (5.4 x 6.0 in)	145.0 x 162 mm (5.71 x 6.38 in)
Displacement	27 liters (1648 in³)	32.1 liters (1959 in³)
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	1321 mm (52 in)	1319 mm (51.9 in)

C27 ACERT Ratings V-12

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	1800-2100	653	875	1800-2100	708	950	1800-2100	783	1050	1800-2100	858	1150	1800-2100

C32 ACERT Ratings V-12

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	1800-2100	839	1125	1800-2100	895	1200	1800-2100	1007	1350	1800-2100

Features

- ADEM™ A4 ECU
- MEUI fuel system
- Leverage technology from the 3412E, C15 ACERT, and C18 ACERT
- Rear gear train
- Overhead cams
- Front housing and gear train

Benefits

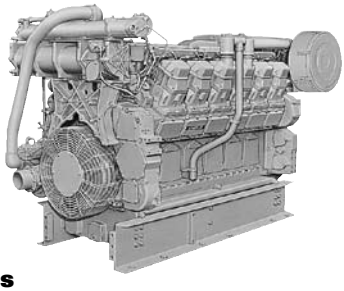
- Excellent fuel efficiency and power density
- Wide power range from a single installation (from 800-1350 bhp)
- More production from same size package
- Improved cold start capability

Abbreviations used:
TA.....Turbocharged/Aftercooled
ATAAC.....Air-to-Air Aftercooled
ECU.....Electronic Control Unit

EPA Compliant for current year

Meets Tier 2, emissions requirements. Tier 2 refers to EPA (U.S.) requirements.

*Final turbo locations could affect dimensions.



3512

Specifications

	3508	3512
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 in³)	51.8 liters (3158 in³)
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
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)
Displacement	69 liters (4210 in³)
Ship Weight	7484 kg (16 499 lbs)
Approximate Dimensions:	
Length	3366 mm (133 in)
Width	1703 mm (67 in)
Height	1718 mm (68 in)

3508 Ratings V-8

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

3512 Ratings V-12

A Rating (Continuous)			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA					
761	1020	1200	858	1150	1300
877	1175	1800	1007	1350	1800
955	1280	1800	1119	1500	1800

3516 Ratings V-16

A Rating (Continuous)			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA					
1011	1355	1200	1242	1665	1300
1156	1550	1800	1268	1700	1800
1275	1710	1800	1492	2000	1800

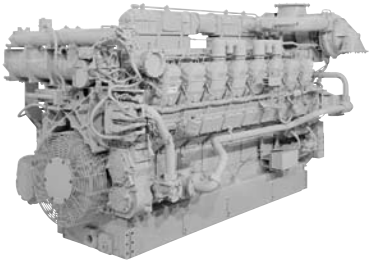
Features

- Built with common parts — intake and exhaust valves, valve seat inserts, and valve springs are all identical
- Scroll-type unit injectors for consistent, precise fuel delivery to each cylinder
- High-pressure fuel lines eliminated
- Advanced electronic control systems

Benefits

- Service efficiency reduces operating costs
- Superior fuel economy
- Repower savings/higher production with less fuel consumption

Abbreviations used:
TA.....Turbocharger/Aftercooled



3516B

Specifications

	3508B	3512B
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 in³)	51.8 liters (3158 in³)
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)

	3516B
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)
Displacement	69 liters (4210 in³)
Ship Weight	7484 kg (16 500 lbs)
Approximate Dimensions:	
Length	3008 mm (119 in)
Width	1443 mm (57 in)
Height	1980 mm (78 in)

Mobile Equipment Ratings

3508B Ratings V-8

A Rating (Continuous)			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (SCAC)					
746	1000	1800	820	1100	1800

3512B Ratings V-12

A Rating (Continuous)			C Rating (Intermittent)		
bkW	**bhp**	**rpm**	**bkW**	**bhp**	**rpm**
TA (SCAC)					
1119	1500	1800	1231	1650	1800

3516B Ratings V-16

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

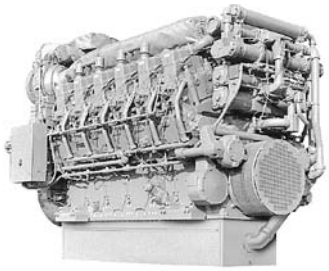
Features

- Built with common parts — intake and exhaust valves, valve seat inserts, and valve springs are all identical
- Scroll-type unit injectors for consistent, precise fuel delivery to each cylinder
- High-pressure fuel lines eliminated
- Advanced electronic control systems

Benefits

- Service efficiency reduces operating costs
- Superior fuel economy
- Repower savings/higher production with less fuel consumption

Abbreviations used:
TA.....Turbocharged/Aftercooled
SCAC.....Separate Circuit Aftercooled



3612

Specifications

	3606	3608
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
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 In-Line 6

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

3608 Ratings In-Line 8

Distillate A Rating (Continuous)			
TA	**bkW**	**bhp**	**rpm**
	1980	2655	750
	2080	2787	800
	2300	3080	900
	2460	3300	1000

3612 Ratings V-12

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

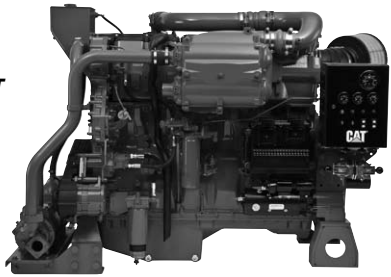
3616 Ratings V-16

Distillate A Rating (Continuous)			
TA	**bkW**	**bhp**	**rpm**
	3960	5310	750
	4160	5579	800
	4600	6169	900
	4920	6598	1000

Features

- All 900 and 1000 ratings are IMO certified with 32°C cooling water to aftercooler

Abbreviations used:
TA.....Turbocharger/Aftercooled



C18 ACERT Fire Pump Engine

Specifications

	C18 ACERT
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in³)
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 Ratings In-Line 6

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/Stage IIIA							
—	—	522	700	522	700	522	700
—	—	447	600	447	600	447	600
Non-EPA Certified							
522	700	—	—	—	—	—	—

Features

- ADEM A4 ECU — two redundant units per NFPA 20
- MEUI fuel system
- Compact design
- Twin parallel turbochargers with watercooled center sections
- Monotherm piston

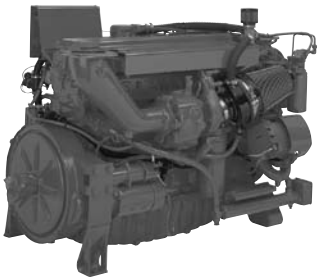
Benefits

- Narrow rings of monotherm piston and tighter tolerance allows superior control
- Watercooled center sections of turbocharger increase reliability during hot shutdowns
- One compact design fits 600-800 hp range
- Engines are FM and UL certified and meet NFPA 20 regulations
- Meet emission standards for Tier 2 and Tier 3/Stage IIIA

EPA Compliant for current year

All ratings are FM and UL certified.

Tier 2 and Tier 3 refer to EPA (U.S.) emissions requirements. Stage IIIA refers to European emissions requirements.



Fire Pump Engine

3406C Ratings V-12

1460 rpm		1750 rpm		1900 rpm		2100 rpm		2300 rpm	
bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
T									
242	325	218	292	280	375	246	330	261	350
—	—	276	370	—	—	280	375	—	—
TA									
224	300	313	420	317	435	321	430	339	455
—	—	343	460	343	460	359	482	—	—

3412C* Ratings V-12

1750 rpm		1900 rpm		2100 rpm	
bkW	bhp	bkW	bhp	bkW	bhp
T					
401	538	—	—	427	573
TA					
476	638	551	739	551	739

3508 Ratings V-8

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

3512 Ratings V-12

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
TA			
1067	1430	1193	1600

3516 Ratings V-16

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

Abbreviations used:
JWAC.....Jacket Water Aftercooled
T.....Turbocharged
TA.....Turbocharged/Aftercooled

*Watercooled turbocharger and manifolds

All models for export only

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. Caterpillar's gas engines are not certified for mobile applications within the U.S. and are to be used in stationary use only applications that must be installed a minimum of twelve consecutive months at a location.

U.S. EPA SI Stationary NSPS Regulations

- Effective July 2007, the U.S. EPA will enforce the new Spark Ignited New Source Performance Standard (SI NSPS) for stationary engines rated equal to or above 500 bhp.
- Effective January 1, 2008, this standard will be required for engines rated below 500 bhp.

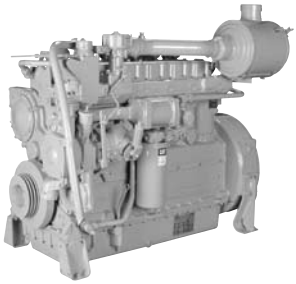
U.S. EPA SI Stationary NSPS Non-air Fuel Ratio Site Compliant Capable

- The as-shipped non-air fuel ratio-controlled engine is capable of site-compliance by the customer and will require customer-specified and -supplied 3-way catalyst and air-fuel ratio control.
- This designation is used to describe rich burn catalyst emission ratings intended for use with 3-way catalysts.
- It is the customer's responsibility to coordinate and complete site emissions testing to demonstrate compliance to the NSPS.

The above regulations apply to the gas engines on pages 23-26.

Abbreviations

NSPS..... New Source Performance Standard
SI ..... Spark Ignited
SI NSPS ..... Spark Ignited New Source Performance Standard



G3306

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 in³)	10.5 liters (638 in³)
Ship Weight	739 kg (1630 lbs)	948 kg (2090 lbs)
Approximate Dimensions:		
Length	1158 mm (46 in)	1505 mm (59 in)
Width	744 mm (29 in)	1208 mm (48 in)
Height	1270 mm (50 in)	978 mm (39 in)

G3304 Ratings

	1800 rpm	
	bkW	bhp
Engine — Continuous		
G3304 NA	71	95

G3306 Ratings

	1800 rpm	
	bkW	bhp
Engine — Continuous		
G3306 NA*	108	145
G3306 T**	111	150
G3306 TA[2]*	151	203
G3306 TA[1]	157	211
G3306 TA[1]*	164	220

[1]32° C/90° F Water to Aftercooler
[2]54° C/130° F Water to Aftercooler

Gas Engine Features

- ADEM™ A3 ECU
- Over five decades of experience leveraging Caterpillar quality engineering and manufacturing of gas and diesel powered engines
- Fuel flexibility
- Open-chamber design

Gas Engine Benefits

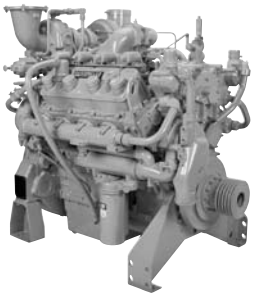
- Natural, field, landfill, and propane gas can all be burned efficiently
- Meets latest worldwide emissions requirements
- Caterpillar engineered design expertise has been applied
- Open-chamber design keeps the air-fuel mixture lean and increases power while minimizing NOx
- Naturally aspirated, turbocharged, and aftercooled options allow you to match emissions and dependability requirements to your specific needs

Abbreviations used:
NA.....Naturally Aspirated
TA.....Turbocharged/Aftercooled
ECU.....Electronic Control Unit

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

*Ag rating also available

**Ag rating only



G3408

Specifications

	G3406 (TA)	G3408 (TA)	G3412 (TA)
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)	1680 kg (3700 lbs)	2143 kg (4720 lbs)
Approximate Dimensions:			
Length	1993 mm (79 in)	1594 mm (63 in)	2049 mm (81 in)
Width	1265 mm (50 in)	1471 mm (58 in)	1603 mm (63 in)
Height	1433 mm (56 in)	1509 mm (59 in)	1734 mm (68 in)

G3406 Ratings

	1400 rpm		1800 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3406 NA	131	175	160	215
G3406 TA[2,4]	—	—	206	276
G3406 TA	—	—	242	325

G3408 Ratings

	1500 rpm		1800 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3408 NA	—	—	190	255
G3408 TA[2]	—	—	298	400
G3408 TA[2,4]	248	332	—	—
G3408 TA[2,3]	—	—	317	425

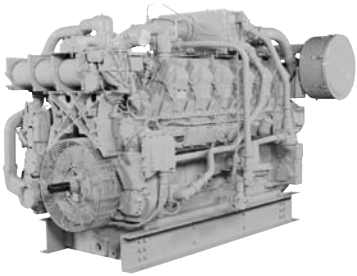
G3412 Ratings

	1500 rpm		1800 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3412 NA	—	—	272	365
G3412 TA[2,4]	373	500	—	—
G3412C TA[2,3]	—	—	475	637

[1]32° C/90° F Water to Aftercooler
[2]54° C/130° F Water to Aftercooler
[3]Low Emissions
[4]Catalyst Rating

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

Abbreviations used:
NA.....Naturally Aspirated **TA**.....Turbocharged/Aftercooled



G3512

Specifications

	G3508 (TA)	G3512 (TA)
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 in³)	51.8 liters (3158 in³)
Ship Weight	5425 kg (11 950 lbs)	6560 kg (14 450 lbs)
Approximate Dimensions:		
Length	2247 mm (89 in)	2788 mm (110 in)
Width	1733 mm (68 in)	1703 mm (67 in)
Height	1867 mm (74 in)	1863 mm (73 in)

	G3516 (TA)	G3520B (TA)
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 in³)	86.3 liters (5263 in³)
Ship Weight	7931 kg (17 470 lbs)	9875 kg (21 770 lbs)
Approximate Dimensions:		
Length	3327 mm (131 in)	3849 mm (152 in)
Width	1703 mm (67 in)	1718 mm (68 in)
Height	1859 mm (73 in)	2398 mm (94 in)

G3508 Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3508 TA[3]	391	524	—	—
G3508 TA[1, 4]	—	—	500	670

G3512 Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3512 TA[3]	589	790	—	—
G3512 TA[3, 4, 5]	642	860	749	1005

G3516 Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3516 NA	492	660	—	—
G3516[3]	783	1050	—	—
G3516 TA[3, 4, 5]	858	1150	1000	1340

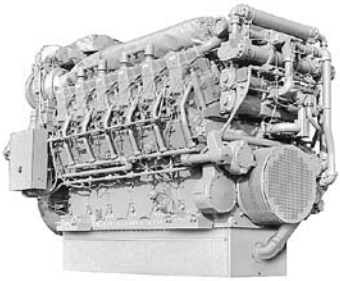
G3520B Ratings

	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3520B TA	1103	1480	1286	1725

[1]32° C/90° F Water to Aftercooler
[2]43° C/110° F Water to Aftercooler
[3]54° C/130° F Water to Aftercooler
[4]Low Emissions
[5]Air Fuel Ratio

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

Abbreviations used:
NA.....Naturally Aspirated
ECU.....Electronic Control Unit
TA.....Turbocharged/Aftercooled



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 in³)	169.6 liters (10 350 in³)
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 in³)	339.2 liters (20 698 in³)
Ship Weight	25 084 kg (55 300 lbs)	29 892 kg (65 900 lbs)
Approximate Dimensions:		
Length	4735mm (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	
	bkW	**bhp**
Engine — Continuous		
G3606 TA[2,3]	1324	1775

G3608 Ratings

	1000 rpm	
	bkW	**bhp**
Engine — Continuous		
G3608 TA[2,3]	1767	2370

G3612 Ratings

	1000 rpm	
	bkW	**bhp**
Engine — Continuous		
G3612 TA[2,3]	2647	3550

G3616 Ratings

	1000 rpm	
	bkW	**bhp**
Engine — Continuous		
G3616 TA[2,3]	3531	4735

G12CM34 Ratings

	750 rpm	
	bkW	**bhp**
Engine — Continuous		
G12CM34[3]	4575	6135
G12CM34[3]	6100	8180

[1]32° C/90° F Water to Aftercooler
[2]54° C/130° F Water to Aftercooler
[3]Low Emissions

Features

- Over 5 decades experience leveraging Caterpillar quality engineering and manufacturing of gas and diesel powered engines
- Fuel flexibility
- State-of-the-art electronically controlled pre-chamber design

Benefits

- Natural, field, landfill, and propane gas can all be burned efficiently
- Meets latest worldwide emissions standards
- Cat engineered design expertise has been applied
- Electronically controlled pre-chamber design allows you to obtain NOx levels as low as 0.5 gr/bhp-hr

Abbreviations used:
TA.....Turbocharged/Aftercooled

ACERT® Technology

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

ADEM™ A4 ECU

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

Analog Gauge

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

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

For additional information visit www.catelectronics.com

Additional Literature

Cat C4.4, C4.4 ACERT, and C6.6 ACERT Engines
Superior Performance and Beyond. . . . . LEDH 6529

Industrial Engine Attachments Guide LEDH6161

Industrial Power Systems Fueled by Innovation. LEDH4624

Irrigation Engine Ratings Guide LEDH5378

Notes

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