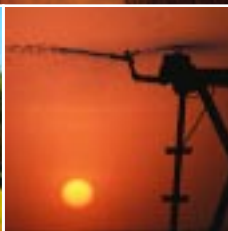


Industrial Engine Ratings Guide



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.

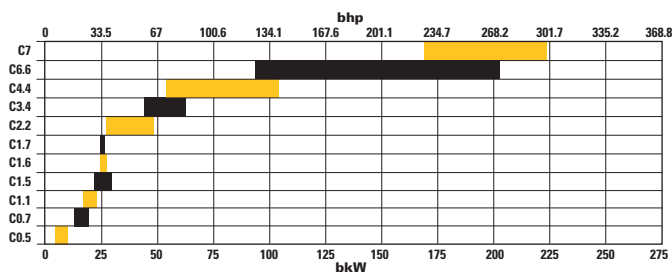
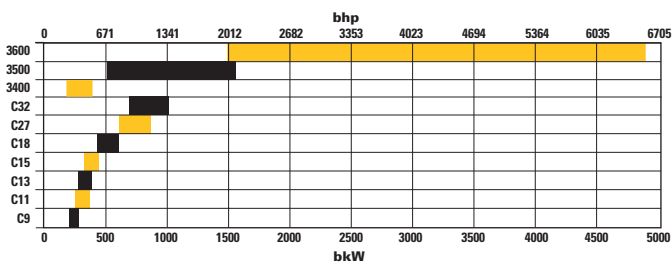
Ratings are based on dry natural gas having an LHV of 35.54 MJ/N•m³ (905 btu/ft³). Variations in altitude, temperature, and gas composition from standard conditions may require a reduction in engine horsepower.

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

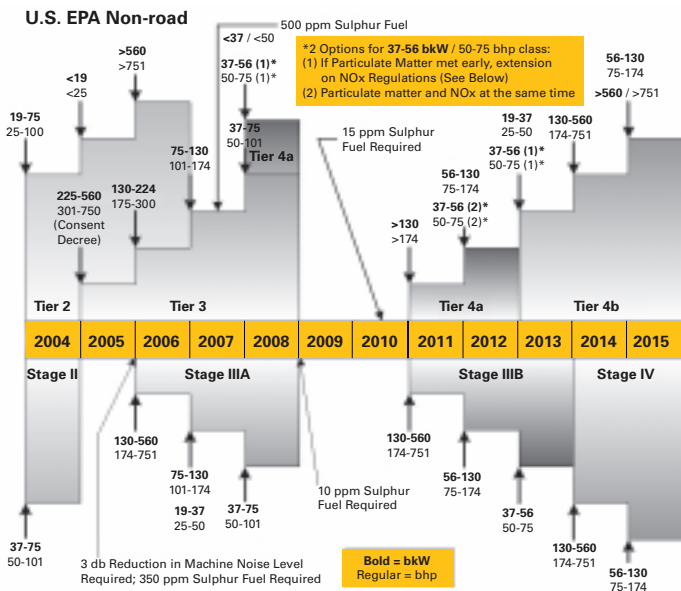
ISO 9001:2000 Certification

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



European Non-road

*Additional information available at www.dieselnets.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

3406C
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 in ³)	0.7 liters (46.5 in ³)
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

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

C0.7 Ratings In-Line 3

NA	C Rating (Intermittent)		
	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

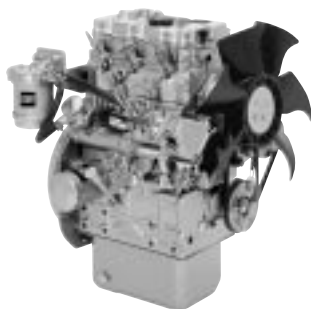
Abbreviations used:

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 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	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

NA	C Rating (Intermittent)		rpm
	bkW Std/Derate	bhp 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

C1.5 Ratings In-Line 3

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

Benefits

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

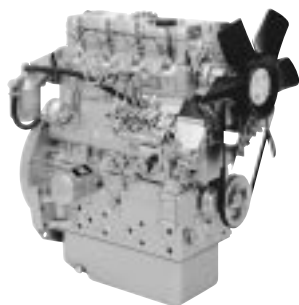
Abbreviations used:

NA.....Naturally Aspirated

T.....Turbocharged

EPA Compliant for current year

Meets 2008 Tier 4 and Tier 4a, Stage IIIA emissions requirements. Tier 4 and Tier 4a 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 in ³)	1.66 liters (101 in ³)
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

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

C1.7 Ratings In-Line 3

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	24.7	33.2	2400
	26	34.8	2600

Benefits

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

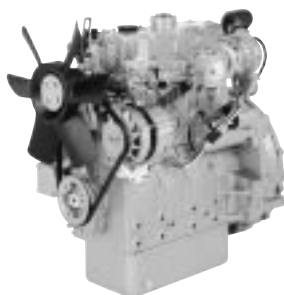
Abbreviations used:

NA.....Naturally Aspirated

EPA Compliant for current year

Meets 2008 Tier 4a, Stage IIIA emissions requirements. Tier 4a 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

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
	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			
	49.2	66	2800

C3.4 Ratings In-Line 4

NA	C Rating (Intermittent)		rpm
	bkW	bhp	
	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 4a, Stage IIIA emissions requirements. Tier 3 and Tier 4a refer to EPA (U.S.) requirements. Stage IIIA refers to European requirements.



C4.4 ACERT

Specifications

	C4.4	C4.4 ACERT
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 (269 in ³)	4.4 liters (269 in ³)
Ship Weight	291 kg (640 lbs) (NA) 306 kg (674.6 lbs) (T, TA)	360 kg (793.7 lbs) (T, TA)
Approximate Dimensions:		
Length	663 mm (26.1 in) (NA, T, TA)	631 mm (24.8 in) (T, TA)
Width	470 mm (18.5 in) (NA) 597 mm (23.5 in) (T) 620 mm (24.4 in) (TA)	626 mm (24.65 in) (T, TA)
Height	810 mm (31.9 in) (NA, T) 775 mm (30.5 in) (TA)	823.5 mm (32.4 in) (T) 958 mm (37.72 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 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

Features

- Mechanical range up to 117 bhp
- Identical major hook-up points
- New options including multi-vee belt
- Auxiliary drive capability — SAE A PTO
SAE B PTO

Benefits

- Choice of mechanical and electronic control
- 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

TA.....Turbocharged/Aftercooled

T.....Turbocharged

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.

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 in ³)	6.6 liters (402.8 in ³)
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

TA (ATAAC)	C Rating (Intermittent)	
	bkW	bhp
		rpm
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

IOPU 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

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

Abbreviations used:

TATurbocharged/Aftercooled
ATAACAir-to-Air Aftercooled

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.

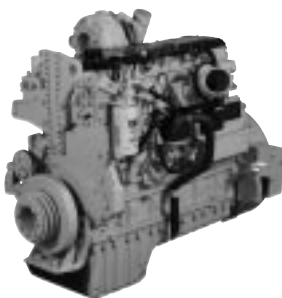
IOPUIndustrial Open Power Unit
ECUElectronic Control Unit

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	187	250	1800- 2200	224	300	2100- 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:

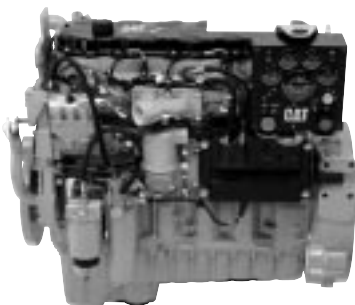
ATAAC Air-to-Air Aftercooled

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-	224	300	1800-	242	325	1800-	280	375	1800-
		2200			2200			2200			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:

ATAACAir-to-Air Aftercooled
ECUElectronic 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 in³)

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-	261	350	1800-	287	385	1800-	313	420	1800-	336	450	1800-
		2100			2100			2100			2100			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:

ATAACAir-to-Air Aftercooled

ECUElectronic 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

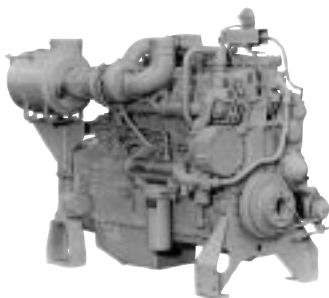
Abbreviations used:

ATAACAir-to-Air Aftercooled

ECUElectronic 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.



3406C

Specifications

3406C
Bore x Stroke 137 x 165 mm (5.4 x 6.5 in)
Displacement 14.6 liters (893 in³)
Ship Weight (TA) .. 1356 kg (2990 lbs)

Approximate Dimensions:

Length 1661 mm (65 in)
Width 901 mm (36 in)
Height 1336 mm (53 in)

3406C 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
T	201	270	1800	224	300	2000	242	325	2100	283	380	2100	291	390	2100
TA	199	267	1300	—	—	—	199	267	1300	—	—	—	—	—	—
	205	275	1800	242	325	2000	269	360	2100	313	420	2100	336	450	2100
	242	325	1800	242	325	2000	242	325	1800	—	—	—	—	—	—
	—	—	—	—	—	—	242	325	2100	—	—	—	—	—	—
	242	325	1800	276	370	2000	298	400	2100	358	480	2100	373	500	2100
	257	345	1800	254	340	2000	250	335	2100	—	—	—	—	—	—
	—	—	—	—	—	—	257	345	1800	—	—	—	—	—	—
	—	—	—	—	—	—	269	360	1800	283	380	2100	291	390	2100
	268	360	1800	268	360	2000	269	360	2100	298	400	2100	324	435	2100
	—	—	—	—	—	—	280	375	2000	—	—	—	—	—	—
	—	—	—	—	—	—	280	375	2100	—	—	—	—	—	—
	—	—	—	—	—	—	298	400	1800	—	—	—	—	—	—
	—	—	—	—	—	—	298	400	2000	—	—	—	—	—	—
	280	375	1800	291	390	2000	298	400	2100	324	435	2100	362	485	2100
	—	—	—	—	—	—	321	430	2100	—	—	—	—	—	—
	—	—	—	—	—	—	328	440	1800	—	—	—	—	—	—
	—	—	—	—	—	—	328	440	1900	366	490	2100	—	—	—
	—	—	—	—	—	—	328	440	2000	—	—	—	384	515	1900
	287	385	1800	328	440	2000	343	460	2100	373	500	2100	384	515	2100
	313	420	1800	328	440	2000	343	460	2100	384	515	2100	392	525	2100

Features

- In-line, six cylinder diesel engine
- Heat-treated crankshaft with high fatigue strength regrounds up to 3 times
- Chrome-plated stems guard against seizure
- Direct injection fuel system
- Durable for heavy-duty applications

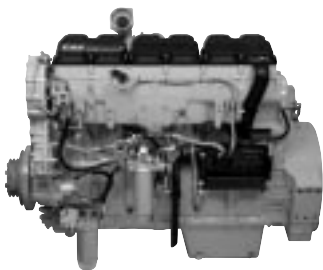
Benefits

- Hard-faced intake and exhaust valves resist wear at high heat
- High strength-to-weight ratio
- Steel spacer between head and block eliminates need for liner counterbores, enhancing strength and fatigue life of the block
- Valves rotate 3 degrees each lift, assuring good seating and uniform temperature distribution

Abbreviations used:

TTurbocharged
TATurbocharged/Aftercooled

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:

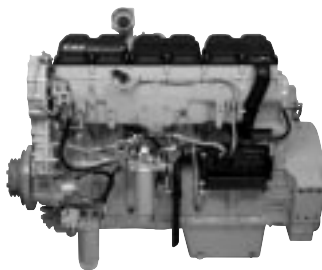
ATAACAir-to-Air Aftercooled

TATurbocharged/Aftercooled

ECUElectronic 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 in ³)
Ship Weight	1673 kg (3688 lbs)
Approximate Dimensions:	
Length	1388 mm (54.6 in) (T) 1414.1 mm (55.7 in) (TA)
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:

ATAACAir-to-Air Aftercooled

TATurbocharged/Aftercooled

TTATwin Turbocharged/Aftercooled

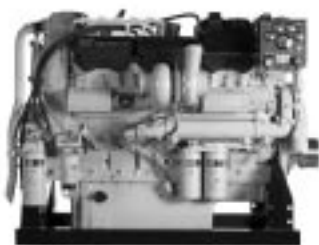
ECUElectronic Control Unit

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	137.7 x 152.4 mm (5.42 x 5.99 in) . .	145.0 x 162 mm (5.71 x 6.38 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	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

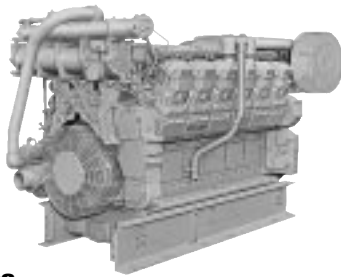
ATAAC.....Air-to-Air Aftercooled

ECU.....Electronic Control Unit

EPA Compliant for current year

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

*All data is preliminary. 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 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
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	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

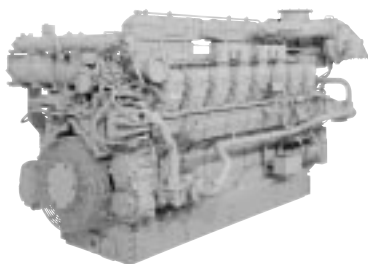
Benefits

- 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 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)

	3516B
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)
Displacement	69 liters (4210 in ³)
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

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

3608 Ratings In-Line 8

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

3612 Ratings V-12

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

3616 Ratings V-16

TA	Distillate A Rating (Continuous)		
	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

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.

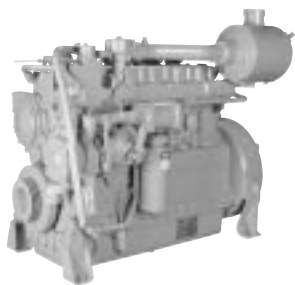
U.S. EPA SI Stationary NSPS Non-air Fuel Ratio Site Compliant Capable

- 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 in ³)	10.5 liters (638 in ³)
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

	1400 rpm		1600 rpm		1800 rpm	
	bkW	bhp	bkW	bhp	bkW	bhp
Engine — Continuous						
G3304 NA	56	75	64	85	71	95

G3306 Ratings

	1800 rpm	
	bkW	bhp
Engine — Continuous		
G3306 NA	108	145
G3306 TA²	151	203
G3306 TA¹	157	211
G3306 TA¹	164	220

¹32° C/90° F Water to Aftercooler

²54° 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:

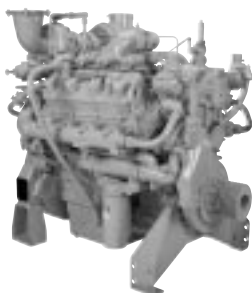
NA.....Naturally Aspirated

TA.....Turbocharged/Aftercooled

ECUElectronic Control Unit

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

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 TA⁴	—	—	218	292

G3408 Ratings

	1400 rpm		1500 rpm		1800 rpm	
	bkW	bhp	bkW	bhp	bkW	bhp
Engine — Continuous						
G3408 NA	157	210	—	—	190	255
G3408 TA²	223	300	—	—	—	—
G3408 TA²	223	300	—	—	298	400
G3408 TA¹	246	330	—	—	—	—
G3408 TA^{2,4}	—	—	248	332	—	—
G3408 TA^{1,4}	261	350	—	—	302	405
G3408 TA^{2,3}	—	—	—	—	317	425
G3408 TA¹	261	350	—	—	336	450

G3412 Ratings

	1400 rpm		1500 rpm		1800 rpm	
	bkW	bhp	bkW	bhp	bkW	bhp
Engine — Continuous						
G3412 NA	235	315	—	—	272	365
G3412 TA^{2,4}	302	405	—	—	—	—
G3412 TA^{2,4}	—	—	373	500	—	—
G3412 TA²	335	450	—	—	—	—
G3412 TA²	347	465	—	—	448	600
G3412 TA^{1,3}	369	495	—	—	—	—
G3412 TA¹	392	525	—	—	—	—
G3412 TA^{1,4}	—	—	—	—	453	607
G3412 TA^{2,3}	—	—	—	—	475	637
G3412 TA^{1,3,4}	—	—	—	—	504	675

¹32° C/90° F Water to Aftercooler

²54° C/130° F Water to Aftercooler

³Low Emissions

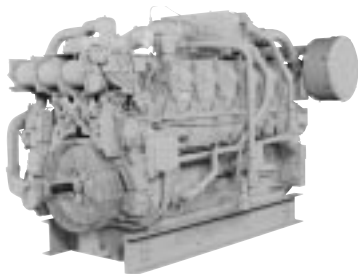
⁴Catalyst Rating

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 in ³)	51.8 liters (3158 in ³)
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 in ³)	86.3 liters (5263 in ³)
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

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3508 NA	231	310	—	—
G3508 TA^{3,4}	384	515	472	630
G3508 TA³	391	524	—	—
G3508 TA^{2,4}	395	530	485	650
G3508 TA²	399	535	—	—
G3508 TA¹	406	545	—	—
G3508 TA^{1,4}	407	545	500	670

G3516 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3516 NA	492	660	—	—
G3516³	783	1050	—	—
G3516 TA²	794	1065	—	—
G3516 TA^{3,4}	809	1085	943	1265
G3516 TA^{2,4}	831	1115	969	1300
G3516 TA^{3,4,5}	858	1150	1000	1340

Gas Engine Feature

- ADEM™ A3 ECU

G3512 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3512 NA	391	525	—	—
G3512 TA³	589	790	—	—
G3512 TA²	595	800	—	—
G3512 TA^{3,4}	604	810	705	945
G3512 TA¹	607	815	—	—
G3512 TA^{2,4}	623	835	727	975
G3512 TA^{3,4,5}	642	860	749	1005

G3520B Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3520B TA	965	1294	1286	1725

- ¹32° C/90° F Water to Aftercooler
- ²43° C/110° F Water to Aftercooler
- ³54° C/130° F Water to Aftercooler
- ⁴Low Emissions
- ⁵Air 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 (Petroleum)

	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	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

	900 rpm		1000 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3606 TA ^{2,3}	1193	1600	1324	1775
G3606 TA ^{1,3}	1271	1705	1413	1895

G3608 Ratings

	900 rpm		1000 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3608 TA ^{2,3}	1591	2133	1767	2370
G3608 TA ^{1,3}	1693	2270	1879	2520

G3612 Ratings

	900 rpm		1000 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3612 TA ^{2,3}	2383	3195	2647	3550
G3612 TA ^{1,3}	2539	3405	2822	3785

G3616 Ratings

	900 rpm		1000 rpm	
	bkW	bhp	bkW	bhp
Engine — Continuous				
G3616 TA ^{2,3}	3178	4261	3531	4735
G3616 TA ^{1,3}	3389	4545	3762	5045

¹32° C/90° F Water to Aftercooler

²54° C/130° F Water to Aftercooler

³Low 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

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Your Cat dealer is prepared to answer any questions you may 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, visit our website or contact Caterpillar Inc. World Headquarters in Peoria, Illinois, U.S.A.

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.

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