

Product Consist:

NOTE

The G3306B is a spark ignited rich burn engines.
The G3306B features the ADEM A4 control system providing integrated ignition, air/fuel ratio control, speed governing, protection, and engine control. A non-air/fuel ratio control version is available for export outside of the US.

AIR INLET SYSTEM

Air cleaner, intermediate duty, dry
Air cleaner rain cap (shipped loose)
Service indicator

CONTROL SYSTEM

G3306B - ADEM A4

COOLING SYSTEM

Thermostats and housing, Full open temperature 97 C (207 F)
Jacket water pump, gear driven, centrifugal, non-self-priming
Aftercooler water pump, gear driven, centrifugal, non-self-priming (TA only)
Aftercooler core, for treated water (TA only)

EXHAUST SYSTEM

Exhaust manifolds, watercooled
Exhaust elbow, dry
TA - 127 mm (5 in)
NA - 102 mm (4 in)
G3306B - Caterpillar supplied Three way catalyst on top levels:
3060109, 306GI13, 3060114, 3060115, 3060116, 3060117,
3060118, 306GI19. 3060120, 306G12I, 306GI24, 306G125,

G3306B - Customer supplied catalyst on top levels:
3060128, 3060129, 3060130, 3060131, 3060132. 3060133.

FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel. SAE No. 1
Flywheel housing, SAE No. 1
SAE standard rotation

FUEL SYSTEM

Gas pressure regulator
TA - requires 82.7-172.4 kPa (12-25 psi) gas.
NA - requires 10.3-34.5 kPa (1.5-5 psi) gas.
Natural gas carburetor

G3306B - ADEM A4 air/fuel ratio control on top level:
306G109, 306GI13, 306G114, 306GI15, 306G116, 306GI17,
306GI18, 306G119, 306G120, 306G121, 306GI24, 306G125,
306G128, 306G129, 306G130, 306GI31, 306G132, 306G133.

IGNITION SYSTEM

G3306B - ADEM A4 ignition

INSTRUMENTATION

G3306B - See optional attachments

LUBE SYSTEM

Crankcase breather, top mounted
Oil cooler
Oil filter
Oil pan, full sump
Oil filler and dipstick

MOUNTING SYSTEM

Engine supports.

PROTECTION SYSTEM

G3306B - ADEM A4 protection
The following include alarm and shutdown
- inlet manifold air temperature (TA engines only)
- inlet manifold air pressure
- oil pressure
- oil temperature
- coolant temperature
- engine speed (over speed)
- battery voltage
- catalyst inlet/outlet temperature (sensors shipped loose)
The following are display only
- service hours

GENERAL

Paint, Caterpillar Yellow
Crankshaft vibration damper and drive pulley
Lifting eyes

Note: "Stationary Use Only Label": Effective January 2004, the US EPA Nonroad Mobile SI rule restricts the use of SI gas engines in the United States. Caterpillar's Gas Engines are not certified for mobile applications within the US 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.

CANADIAN STANDARDS ASSOCIATION

Select Feature codes include CSA certification. Refer to feature code description.

Electrical system and instrumentation certified for CSA Class I, Division 2, Group D hazardous location. Includes entire ADEM A4 system and control/display panel.

NOTE: Not all attachments/options are CSA certified. Options that are not CSA certified are noted as such in the feature description.

US EPA SI Stationary NSPS Regulations: (40CFR60 Subpart JJJJ):

The rule applies to newly built engines.

This standard regulates NO_x, CO, and VOC in 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 US EPA certificate of compliance.

Effective July 1, 2010, the US 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, 2011, this standard will be required for engines rated

below 500 bhp.

AFRC ENGINES

Feature / Part #	Line Description
306G114	G3306B NA IND AFRC I G NCSA
NOEUCRT	NO EU CERT REQUEST-SEE DETAILS
RAD0015	RADIATOR W / 26" SUCTION FAN
ALT2400	CHARGING ALT 24V 35 AMP B ENG
ADPL001	AUXILIARY DRIVE PULLEY-2 GRV
FANGDO1	FAN GUARD
ELSM 129	ELEC START MOTOR 24V - B
EMISS22	CATALYST EMISS LEVEL AFR 1 G
MSPETGC	PETRO GAS COMPRESSION
SOCSSO1	CUSTOMER SUPPLIED SHUTOFF
SWP0016	SHRINK WRAP PROTECTION - 3306
MWCODEC	COMPRESSOR
MSCP40	COMPRESSION
HPWOI45	145 BHP @ 1800 RPM (NA RATING)
AMM2404	CUST. SUPPLIED AMMETER GAUGE
INDLAPL	INDUSTRIAL APPLICATION
SET3368	SET3368
SOVCUO I	CUST. SUPPLIED SHUT OFF VALVE