CATERPILLAR®

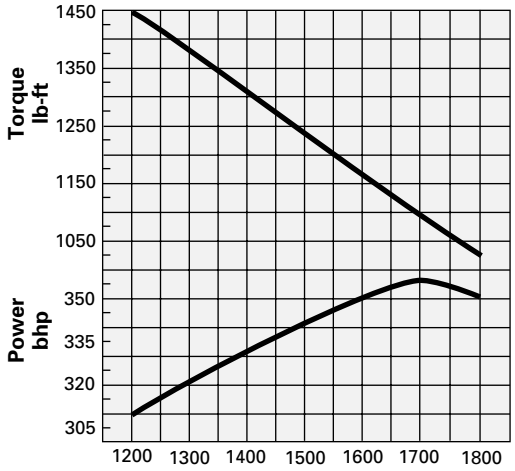
Diesel Truck Engine

3406C

350 hp @ 1800 rpm
1450 lb/ft @ 1200 rpm

Shown with Optional Equipment

PERFORMANCE CURVES

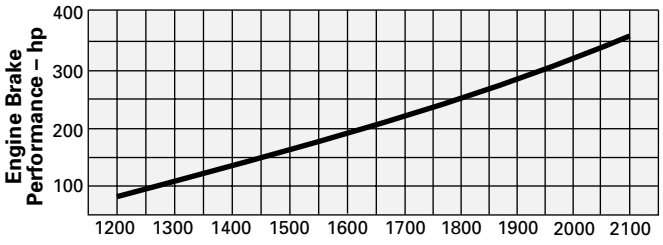


Programmable Top Engine Limit Range 1200-1800 rpm

CATERPILLAR® ENGINE SPECIFICATIONS

Bore — in (mm)	5.4 (137)
Stroke — in (mm)	6.5 (165)
Displacement — cu in (L)	893 (14.6)
Aspiration	Turbocharged for ATAAC[1]
Rotation (from flywheel end)	Counterclockwise
AMA Rating for USA Tax Purposes—hp	70.0
Cooling System[2] — gal (L)	5.5 (20.8)
Lube Oil System (refill) — gal (L)	10.0 (38)
Weight, Net Dry (approx) — lb (kg) with standard equipment	2926 (1327)

ENGINE RETARDATION*



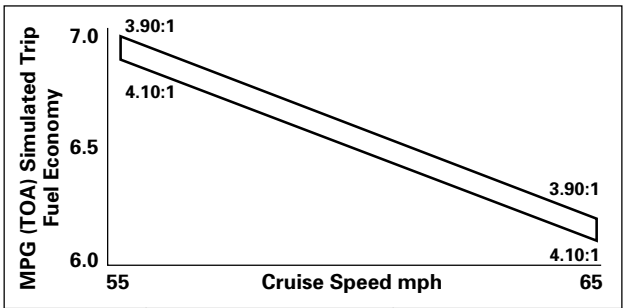
Jacobs 346D or Pacbrake P36

* Retarding performance per SAE J1621 STD.

PERFORMANCE DATA

Operating Range (rpm)	1200-1800 (600)
Maximum Engine rpm	1800
Rated hp (kW) @ 1800	350 (261)
Governed Speed — rpm	**1800**
Max hp @ 1700 rpm (kW)	356 (265)
Peak Torque — lb-ft (N•m)	1450 (1972)
Peak Torque — rpm	1200
Torque rise (%)	42
Altitude Capability — ft (m)	7500 (2288)

SIMULATED VEHICLE PERFORMANCE



Simulated Truck Spec 3406C 350	**Transmission: 9 Speed (0.73 O.D.) Rear Axle Ratios: 4.10:1 — Performance 3.90:1 — Balanced**	**Semi-Van 8.5' x 13.5' Full Aero Package 275/80R 24.5 LP GVW: 78 000 lbs**

CATERPILLAR FACILITIES ISO 9001 CERTIFIED

[1] Air-to-Air AfterCooling

[2] Engine only. Capacity will vary with radiator size and use of cab heater.

CATERPILLAR®

3406C DIESEL TRUCK ENGINE – 350 hp

STANDARD EQUIPMENT

Air compressor, gear driven, 13.2 cfm (0.37 m^3/min)
Crankcase breather
Fan drive mounting bracket
Flywheel and SAE No. 1 housing
Front support
Fuel — spin-on filter, priming and transfer pumps
Gear driven jacket water pump
Governor — full-range hydromechanical
Hydraulic steering pump drive, SAE A
Lifting eyes
Lubricating — cooler, right hand filler, full flow filter, gear-driven pump, front or rear sump pan
Turbocharger
Vibration damper

ACCESSORY EQUIPMENT

Air compressor, gear driven 13, 16 or 31 cfm
Air inlet elbows
Alternator (12V-65 amp, 24V-45 amp or 60 amp)
Auxiliary pulleys and drives
Coolant conditioner, dry-charge
Exhaust couplings
Fans and fan accessories
Fan drive, adjustable
Jacobs™ engine brake 346D & 349A
Pacbrake P36
Primary fuel filter
Refrigerant compressor mounting
Sound suppression panels – block, oil pan
Starter, 12 or 24 volt
Transmission mountings

RATING DEFINITIONS AND CONDITIONS

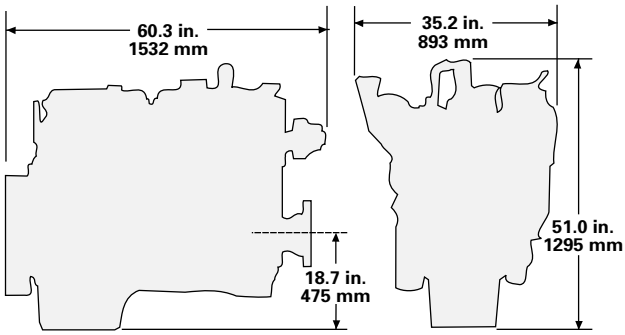
Performance is based on SAE J1995 standard conditions of 29.61 in. Hg (100 kPa) and 77° F (25° C).

Fuel consumption is based on fuel oil having an LHV of 18 390 Btu/lb (42 780 kJ/kg) and weighing 7.001 lb/U.S. gal (839 g/L).

The curves shown are for a standard engine without fan, but equipped with air compressor and fuel, lubricating oil and jacket water pumps.

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for details.

DIMENSIONS



GEARING CONSIDERATIONS

Caterpillar® 3406C ATAAC Truck Engines offer a wide operating range and high torque rise which promotes the use of transmissions with fewer gears. Even with this built-in feature, heavy/specialty haulers must remember their trucks should be geared to achieve the appropriate compromise between startability and desired road speed. Typical loads of 80 000 lb or less are less affected by improper drive train specing than are heavy haulers. In general, either application shares one similar recommendation — gear fast/run slow is essential for good fuel consumption.

If any of the following conditions are present, special attention should be given to proper transmission and axle specifications. A complete Caterpillar Truck Engine Pro analysis is available from your local Caterpillar or truck dealer.

1. Poor road surface
2. Adverse grades — 8% plus
3. GVW in excess of 80 000 lb

For the best balance of performance and fuel economy on the 3406C, spec axle ratios and tire sizes to obtain:

1475 rpm @ 60 mph

Subject to the following:

Maximum recommended engine speed at cruise — **1550 rpm**

Minimum recommended engine speed at 55 mph cruise speed — **1350 rpm**

The International System of Units (SI) is used in this publication.

LEHT7930
Supersedes LEHT5323

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