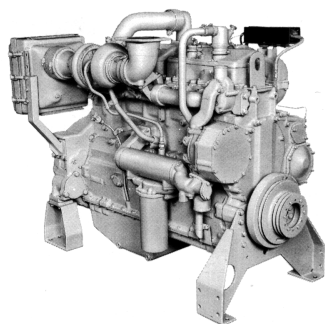


LOW SPEED

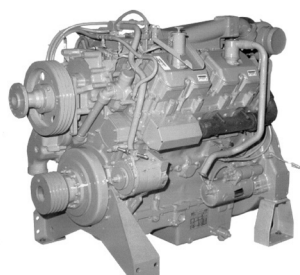
The outstanding performance of Caterpillar® engines is the result of fifty years experience in diesel power, plus a multi-million dollar research and development program. For the user this means continual improvement and refinement in engine performance.

The diesel engines and attachments described here are offered by Caterpillar for use as prime power on mechanical drilling rigs.

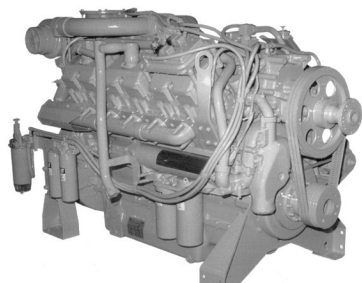
The typical package contains the attachments normally specified on engines powering mechanical rigs. These Cat® engines, when equipped with the user's choice of torque converter or clutch, result in a unit that specifically meets the application requirements of the drilling contractor.



Cat 3406C



Cat 3408C



Cat 3412C

CATERPILLAR® ENGINE SPECIFICATIONS

Cat 3406C

Bore 5.4 in. (137 mm)
Stroke 6.5 in. (165 mm)
Displacement 893 cu. in. (14.6 L)
Weight 2990 lb. (1356 kg)
Low idle 600 rpm

Cat 3408C

Bore 5.4 in. (137 mm)
Stroke 6.0 in. (152 mm)
Displacement 1099 cu. in. (18.0 L)
Weight 3300 lb. (1497 kg)
Low idle 500 rpm

Cat 3412C

Bore 5.4 in. (137 mm)
Stroke 6.0 in. (152 mm)
Displacement 1649 cu. in. (27.0 L)
Weight 4420 lb. (2205 kg)
Low idle 500 rpm

STANDARD EQUIPMENT

Air and Exhaust System

Air cleaner service indicator
Single stage dry air cleaner

Cooling System

Jacket water pump
Water connections
Thermostat and housing

Fuel System

Flexible fuel lines
Fuel filter
Priming and transfer pumps

Instrumentation

Fuel pressure
Lubricating oil pressure
Water temperature gauges

Lubrication System

Oil cooler
Filter
Oil level gauge

Protection System

Mechanical shutoffs
Oil pressure
Water temperature

Starting and Control System

Air starting motor
Manual shutoff control
Hydra mechanical governor and air throttle

Miscellaneous

Service hour meter
SAE #1 flywheel housing (3406C)
SAE #0 flywheel housing (3408C, 3412C)
Flywheel housing
SAE standard rotation
Vibration damper
Industrial engine supports

ACCESSORY EQUIPMENT

Air and Exhaust System

Two-stage air cleaner
Air cleaner adapters
Precleaner
Flexible exhaust fitting
Muffler
Elbow

Cooling System

Corrosion-resistant aftercooler core
Radiators
Torque converter oil cooler

Transmission/torque converter adaptation

RATINGS (without fan)

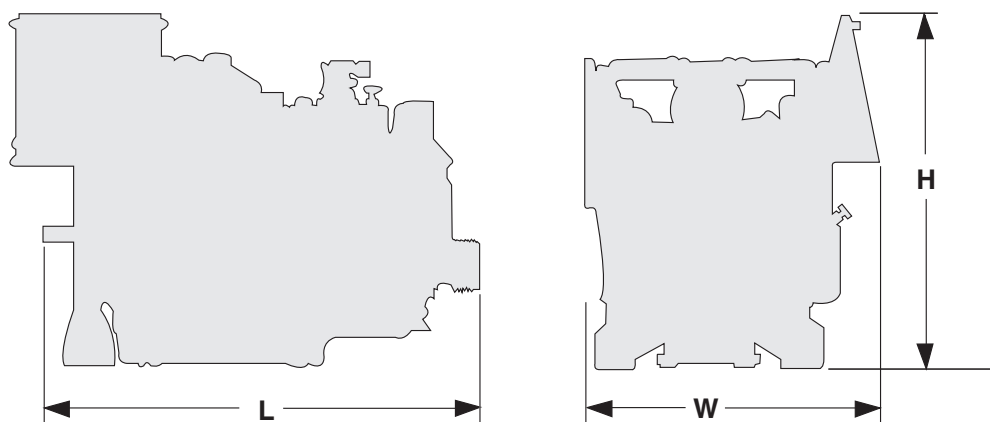
Hoisting

Model	bkW	bhp	rpm
3406C – TA	199	267	1300
3408C – TA	261	350	1200
3412C – TA	354	475	1200
	399	535	1300

Pumping and Drilling

Model	bkW	bhp	rpm
3406C – TA	199	267	1300
	239	320	1500
3408C – TA	238	319	1200
3412C – TA	317	425	1200

DIMENSIONS



DIMENSIONS			
	3406C	3408C	3412C
Length — mm (in)	1661 (65)	1590 (63)	2092 (82)
Width — mm (in)	901 (36)	1231 (49)	1302 (51)
Height — mm (in)	1336 (53)	1376 (54)	1447 (57)

CATERPILLAR PARTS AND SERVICE

You will find Caterpillar parts and service outlets in major oil producing areas worldwide. With the most comprehensive parts distribution system in the industry, most engine parts orders can be filled immediately over a dealer's counter. As a backup, dealers can quickly convey their parts needs to the nearest location in a network of Caterpillar parts facilities around the world. The dealer places an order with the Caterpillar parts depot and a computerized inventory control system helps fill that order, printing shipping instructions for any part in the system — wherever it might be.

While many oilfield contractors maintain a service department adept at handling repairs, they have the assurance that Caterpillar engine dependability is backed by a force of factory qualified dealer servicemen worldwide — men who are specially trained to keep Cat engines operating at peak efficiency. For all engine repairs, from minor work to a major overhaul or rebuild, expert attention is as near as your phone or radio. Work is fast and accurate. Downtime is minimized.

Ask about installation and start-up procedures offered by Caterpillar.

RATING CONDITIONS AND DEFINITIONS

Ratings are based on SAE J1349 standard conditions of 29.61 in Hg (100 kPa) and 77° F (25° C). These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions of 29.61 in Hg (100 kPa), 81° F (27° C) and 60% relative humidity.

Fuel rates are based on fuel oil having an LHV of 19,590 Btu/lb (45,570 kJ/kg and weighing 7.076 lb/U.S. gal. (848 g/liter).

Hoisting: The power and speed capability of the engine which can be used to power the drawworks only of a drilling or workover rig through a mechanical drive.

Pumping and drilling: The power and speed capability of the engine which can be used to power the mud pumps, rotary table, and drawworks through a mechanical drive.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.