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### CAT® ENGINE SPECIFICATIONS

#### V-12, 4-Stroke-Cycle-Diesel

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| Emissions                       | EPA Non-Road Tier 1/EU Non-Road Stage I, IMO certifiable |
| Peak Torque at Speed            | 2502 lbs-ft                                              |
| Bore                            | 137 mm (5.4 in.)                                         |
| Stroke                          | 152 mm (6 in.)                                           |
| Displacement                    | 27 L (1648 cu. in.)                                      |
| Aspiration                      | Turbocharged-Aftercooled                                 |
| Governor and Protection         | Hydra-Mechanical                                         |
| Engine Weight, net dry (approx) | 2388.6 kg (5266 lb)                                      |
| Capacity for Liquids            |                                                          |
| Lube Oil System (refill)        | 272.6 L (72 gal)                                         |
| Cooling System                  | 227.1 L (60 gal)                                         |
| Oil Change Interval             | 250 hours                                                |
| Rotation (from flywheel end)    | Counterclockwise                                         |
| Flywheel and Flywheel Housing   | SAE No. 1                                                |
| Flywheel Teeth                  | 113                                                      |

### FEATURES

#### Engine Design

- Proven reliability and durability
- Robust diesel strength design prolongs life and lowers owning and operating costs
- Broad operating speed range
- PTO drive options provide flexible access to auxiliary power for pumps and other needs

#### Transmissions

Caterpillar has a full line of engine-transmission packages that can be fully integrated with your axle, hydraulics, and operator interface. Cat® transmissions deliver continuous operation under full load, smooth shifting at any speed, and maximum up time, with unmatched durability and easy maintenance.

#### Custom Packaging

For any petroleum application, trust Caterpillar to meet your exact needs with a factory custom package. Cat engines, generators, enclosures, controls, radiators, transmissions — anything your project requires — can be custom designed and matched to create a one-of-a-kind solution. Custom packages are globally supported and are covered by a one-year warranty after startup.

#### Full Range of Attachments

Large variety of factory-installed engine attachments reduces packaging time

#### Testing

Every engine is full-load tested to ensure proper engine performance.

#### Product Support Offered Through Global Cat Dealer Network

More than 2,200 dealer outlets

Cat factory-trained dealer technicians service every

aspect of your petroleum engine.

Cat parts and labor warranty

Preventive maintenance agreements available for repair-before-failure options

S-O-S™ program matches your oil and coolant samples against Caterpillar set standards to determine:

- Internal engine component condition
- Presence of unwanted fluids
- Presence of combustion by-products
- Site-specific oil change interval

#### Over 80 Years of Engine Manufacturing Experience

Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable products.

- Cast engine blocks, heads, cylinder liners, and flywheel housings
- Machine critical components
- Assemble complete engine

#### Web Site

For all your petroleum power requirements, visit [www.catoilandgas.cat.com](http://www.catoilandgas.cat.com).

# Caterpillar 3412e Manual

**TD Snyder**



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