



Cat® 3412C Industrial Diesel Fire Pump Engines, with ratings: 476-551 kW (638-739 hp) @ 1750-2100 rpm, are non-certified and are available for global non-regulated areas. They are not FM Approved and not UL Listed. Starting on demand is a must for a fire pump engine - always. Cat® fire pump engines have a reputation for reliable starts and long efficient service. The Cat line of fire engine pumps covers a wide range of installations.

## Specifications

Power Rating		
Maximum Power	551 kW	739 HP
Rated Speed	1750-2100 rpm	
Minimum Power	476 kW	638 HP

Emission Standards	
Emissions	Non-Certified. Available for global non-regulated areas. Not FM Approved, Not UL Listed

General		
Engine Configuration	V-12, 4-Stroke-Cycle Diesel	
Bore	137 mm	5.4 in
Stroke	152 mm	6 in
Displacement	27 l	1648 in <sup>3</sup>
Compression Ratio	14.5:1	
Aspiration	Turbocharged Aftercooled (TA)	
Rotation from Flywheel End	Counterclockwise	
Aftertreatment	-	

Engine Dimensions - Approximate		
Length	2000 mm	78.7 in
Height	1413 mm	55.6 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	2579 kg	5686 lb

## Benefits and Features

Reliable, Quiet and Durable Power

World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

**World-class Product Support Offered Through Global Cat Dealer Network**

- Scheduled maintenance, including SOSSM sample
- Customer Support Agreements (CSA)
- Caterpillar Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

**Standard Equipment****Air Inlet System**

- Air cleaner, regular duty with service indicators
- Turbocharged

**Cooling System**

- Thermostats and housing
- Jacket water pump, centrifugal
- Heat exchanger installed
- Expansion tank

**Control System**

- Charging alternator 24 volt, 35 amp
- Governor control
- Hydra-mechanical governor

**Exhaust System**

- Exhaust manifold
- Exhaust elbow, dry. 203 mm (8 in) on all Turbocharged engines and Turbocharged Aftercooled with wet exhaust. 152 mm (6 in) on Turbocharged Aftercooled with dry manifolds.

**Flywheels & Flywheel Housings**

- SAE No. 0 flywheel
- SAE No. 0 flywheel housing
- SAE standard rotation

**Fuel System**

- Fuel filter
- Fuel transfer pump
- Primary fuel filter
- Fuel priming pump

**Instrumentation**

- Instrument panel, LH
- Engine oil pressure gauge
- Fuel pressure gauge
- Water temperature gauge

- Tachometer

#### **Lube System**

- Crankcase breather, top mounted
- Oil cooler
- Oil filler in valve cover and dipstick, both RH
- Lube oil filter
- Rear sump oil pan

#### **Mounting System**

- Supports

#### **Power Take Off**

- Power take-off (PTO) flywheel stub shaft

#### **Protection System**

- Stop-Start System, automatic (compatible with NFPA 20 requirements, able to be energized from either of two battery sources and capable of manual starter actuation)

#### **Starting System**

- 24 volt, LH electric starting motor
- Jacket water heater (6 kW, 240-480 volt)

#### **General**

- Paint: Firepump Red
- Vibration damper and guard
- Lifting eyes

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