



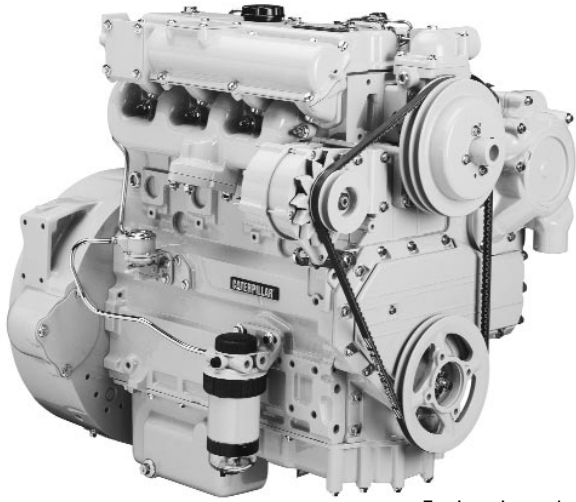
***For Your Convenience: This Caterpillar  
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# CATERPILLAR®



Engine pictured with  
Optional Equipment



## BENEFITS

### ■ FUEL ECONOMY

Consistent performance and excellent fuel economy over entire operating range.

### ■ BROAD APPLICATION RANGE

Big displacement, more performance for your money, and convenient installation.

### ■ RELIABILITY AND DIESEL DURABILITY

Diesel tough components and conservative speed for smooth operation and long engine life.

# Underground Mining Equipment

## 3054 T & TA

103-122 bhp / 78-91 bkW  
2200-2400 rpm

## CATERPILLAR® ENGINE SPECIFICATIONS

In-Line 4 Cylinder, Four-Stroke-Cycle Diesel

Bore — in (mm) ..... 3.94 (100)

Stroke — in (mm)..... 5.00 (127)

Displacement — cu in (liter) ..... 243 (4.0)

Combustion System ..... Direct injection

Rotation (from flywheel end) .. Counterclockwise

Capacity for Liquids — U.S. gal (L)

Cooling System (engine only)

DIT ..... 2.9 (11.0)

DITA..... 3.0 (11.4)

Lube Oil System (refill) typical..... 3.5 (13.3)

Weight, Net Dry (approximate) — lb (kg)

Turbocharged (T)..... 614 (279)

Turbocharged-Aftercooled (TA) ..... 627 (285)

Rated Engine Speed, Full Load

Intermittent — rpm ..... 2400

Continuous — rpm ..... 2200

### ■ HIGH PERFORMANCE

Horsepower and torque capabilities optimized. Substantial 20 percent torque rise.

### ■ CLEAN AND QUIET POWER

Cleaner and quieter, free from visible smoke throughout operational speed range.

### ■ EASY LOW-COST MAINTENANCE

Convenient positioning of service points on right-hand side for easy accessibility.

## FEATURES

*Options must be selected for the following features. See your Caterpillar dealer for a detailed description of options for each feature.*

Adapter plate

Alternator

Balancer

Belt-driven auxiliaries

Cab heater connections

Cold start aid

Coolant pump and thermostat housing

Coolant temperature gauge and sender

Engine mountings

Exhaust manifolds

Fan and extensions

Fan drive

Flywheel and starter ring

Flywheel housing

Front end drives

Fuel filter

Fuel pre-filter

Heater switch

Induction manifolds

Lifting eyes

Lubricating oil fillers and breathers

Lubricating oil filter and cooler

Lubricating oil pressure switch

Lubricating oil sump

Paint

Radiator

Rating

Starter motor

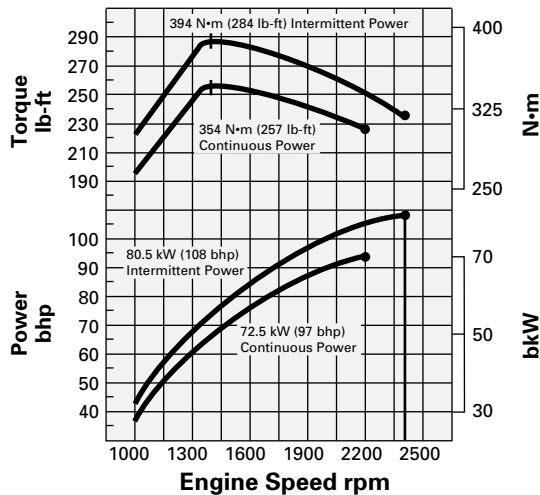
Stop and throttle controls

Timing case and gear-driven auxiliaries

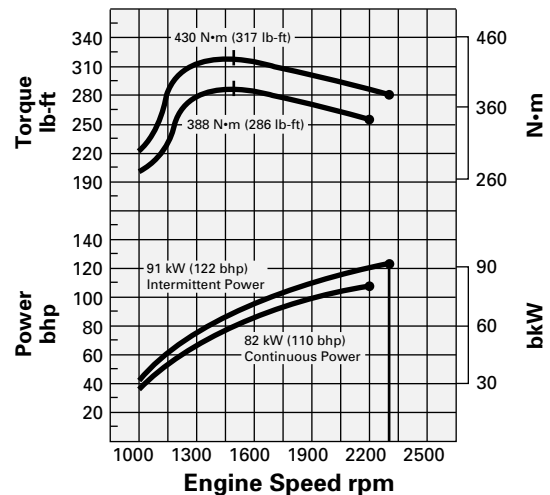
Turbocharger, manifolds

### PERFORMANCE DATA

#### Turbocharged



#### Turbocharged-Aftercooled



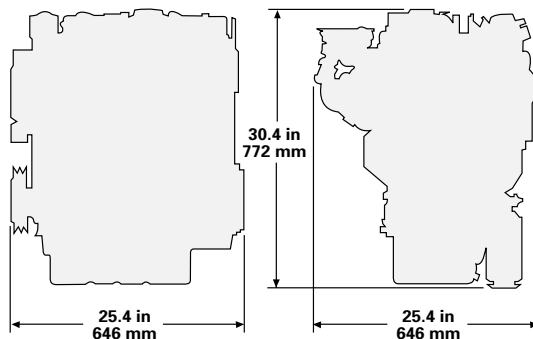
#### MSHA CERTIFIED RATINGS

Aspiration	hp	kW	rpm	Vent Rate			Particulate Index		
				cfm	cum/min	cfm/hp	cfm	cum/min	cfm/hp
T	108	81	2400	9000	255	83	9000	255	83
T	103	78	2200	7500	213	73	9000	255	87
TA	122	91	2300	10 000	284	82	7500	213	61

#### Emissions information:

3054T MSHA Cert. # 7E-B027-0  
3054TA MSHA Cert. # 7E-B020-0

### DIMENSIONS



### RATING DEFINITIONS AND CONDITIONS

**Intermittent** is the horsepower and speed capability of the engine which can be used for about one hour, followed by an hour of operation at or below the continuous rating.

**Continuous** is the horsepower and speed capability of the engine which can be used without interruption or load cycling. Additional ratings are available for specific customer requirements.

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**Ratings** are based on SAE J1995 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 30% relative humidity.

**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 (838.9 g/liter). Power ratings are based on engine equipped with fuel, lube oil and jacket water pumps but without fan.