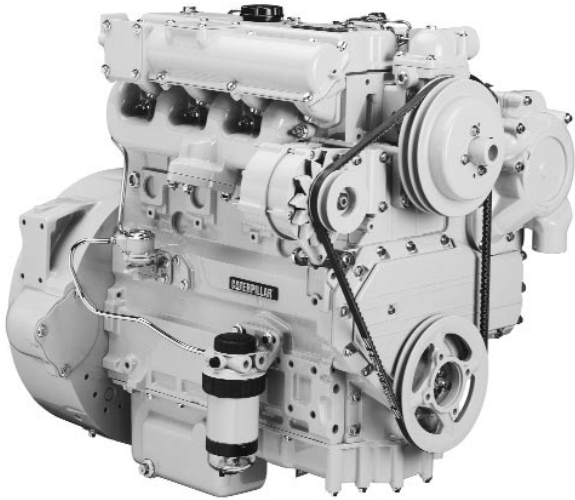


CATERPILLAR®

Underground Mining Equipment **3054 T & TA**

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



Engine pictured with Optional Equipment



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

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.
- **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.

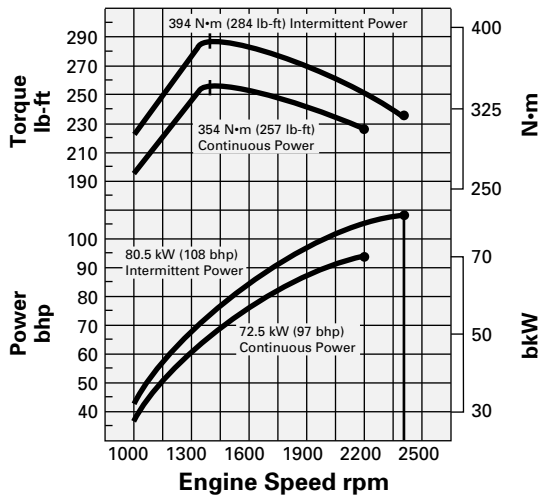
FEATURES

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

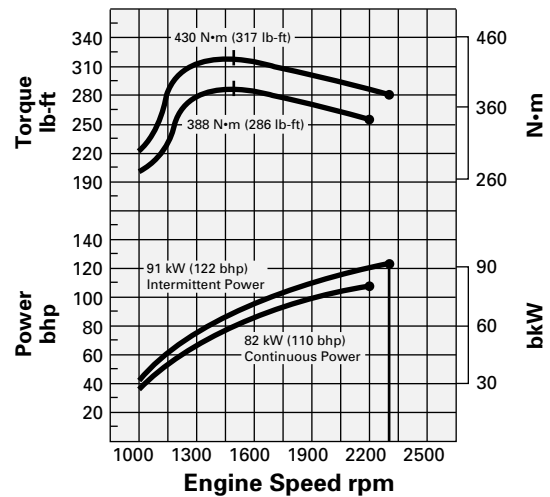
- | | | |
|--------------------------------------|---------------------------------------|---|
| Adapter plate | Fan and extensions | Lubricating oil filter and cooler |
| Alternator | Fan drive | Lubricating oil pressure switch |
| Balancer | Flywheel and starter ring | Lubricating oil sump |
| Belt-driven auxiliaries | Flywheel housing | Paint |
| Cab heater connections | Front end drives | Radiator |
| Cold start aid | Fuel filter | Rating |
| Coolant pump and thermostat housing | Fuel pre-filter | Starter motor |
| Coolant temperature gauge and sender | Heater switch | Stop and throttle controls |
| Engine mountings | Induction manifolds | Timing case and gear-driven auxiliaries |
| Exhaust manifolds | Lifting eyes | Turbocharger, manifolds |
| | Lubricating oil fillers and breathers | |

PERFORMANCE DATA

Turbocharged



Turbocharged-Aftercooled



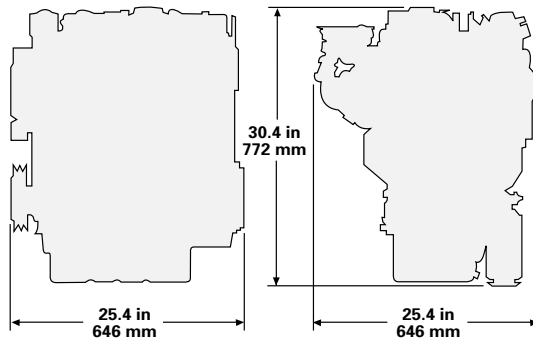
MSHA CERTIFIED RATINGS

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.

Additional ratings are available for specific customer requirements. Consult your Caterpillar dealer.

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.