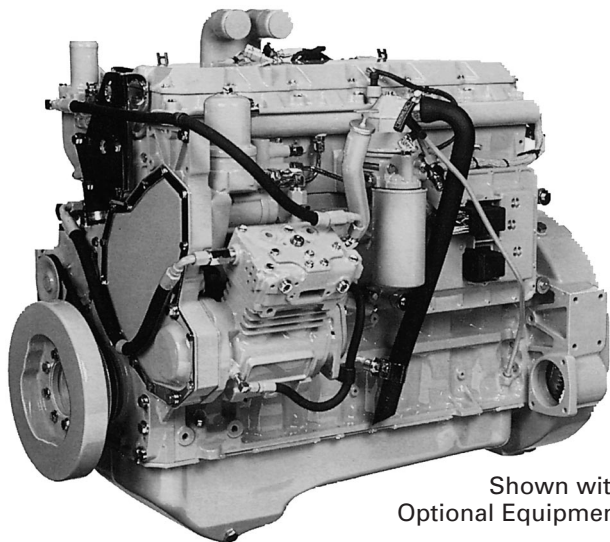


CATERPILLAR®



Shown with
Optional Equipment



FEATURES

■ FUEL ECONOMY

Consistent performance, variable-timed fuel injection, broad rpm turbocharger match, excellent fuel economy over entire operating range.

■ RELIABILITY AND DIESEL DURABILITY

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

Industrial Engine 3126

215-255 bhp/160-190 kW
2200 rpm

**1996 EPA and Carb Non-Road
Emissions Certified**

CATERPILLAR® ENGINE SPECIFICATIONS

In-line 6 cylinder, 4-Stroke-Cycle Diesel

Bore — in (mm) 4.33 (110)

Stroke — in (mm) 5.0 (127)

Displacement — cu in (L) 442 (7.2)

Combustion System Direct Injection

Rotation (from flywheel end) Counterclockwise

Capacity for Liquids — U.S. gal (L)

Cooling System (engine only) 3.51 (13.3)

Lube Oil System (refill) 8.01 (31)

Engine Weight, Net Dry (approx)

lb (kg) 1210 (549)

Altitude Capacity — ft (m) 5000 (1524)

■ FLEXIBLE APPLICATION RANGE

High torque rise, big displacement, convenient installation, more performance for your money.

■ WORLDWIDE PRODUCT SUPPORT AND PARTS AVAILABILITY

STANDARD EQUIPMENT

Cooling System

jacket water pump

Fuel

filter, transfer pump, priming pump

Governor

hydra-mechanical

Lubricating

oil pump, oil cooler, oil filter, oil filler, oil

Torsional vibration

damper

OPTIONAL EQUIPMENT

Air Intake

single stage, dry air cleaner

Alternators

Base, supports

Cooling

radiator, fan drive, belt tightener, vee belt

Exhaust

alternate exhaust outlets, fittings, muffler

Flywheel housings and flywheels

Instruments and gauges

instrument panel, lube oil pressure gauge, volt meter, service meter, tachometer

Lubricating

alternative locations for dipstick, oil filler, oil filter, oil pan sump

Power takeoffs

auxiliary drive pulleys, rear enclosed clutches, gear driven pump drive

Protection devices

electrical shutoffs, oil pressure and coolant temperature alarm switches

Starting

electric, starting aids

PERFORMANCE DATA

Turbocharged-Aftercooled

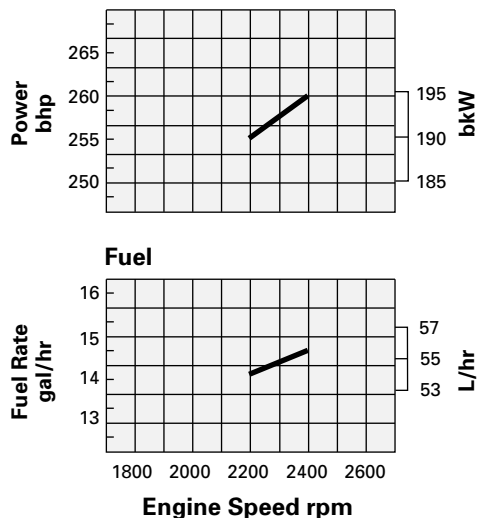
Rating Level	E	D	C	B	A
Rated rpm	2200	2200	2200	2200	2200
Engine Power @ rpm	255 bhp (190 bkW)	250 bhp (186 bkW)	240 bhp (179 bkW)	230 bhp (172 bkW)	215 bhp (160 bkW)

rpm	2200	2400	2200	2400	2200	2400	2500	2600	2200	2400	2200	2400
bhp	255	260	250	255	240	240	250	260	230	230	215	220
lb/bhp-hr	.388	.396	.387	.393	.383	.390	.401	.408	.381	.388	.380	.388
gal/hr	14.1	14.7	13.8	14.3	13.2	13.4	14.3	15.1	12.5	12.8	11.6	12.2

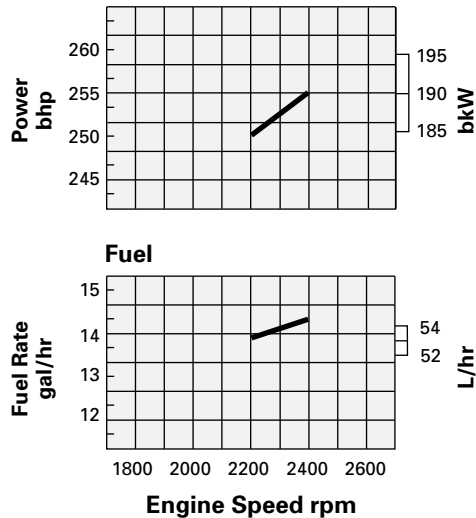
bkW	190	194	186	190	179	179	186	194	172	172	160	164
g/bkW-hr	236	241	235	239	233	237	244	248	232	236	231	236
L/hr	53.5	55.6	52.3	54.2	49.8	50.6	54.3	57.3	47.4	48.3	44.1	46.2

PERFORMANCE CURVES

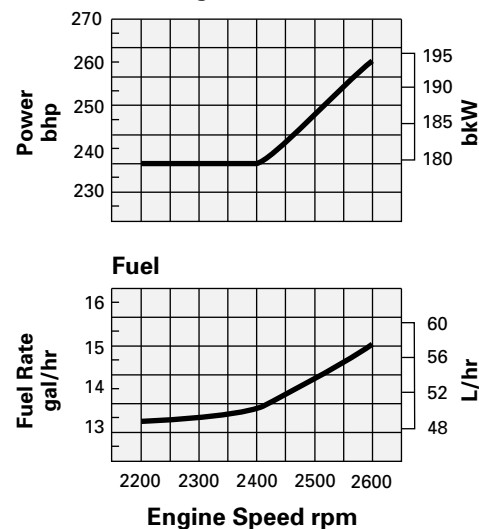
E Rating



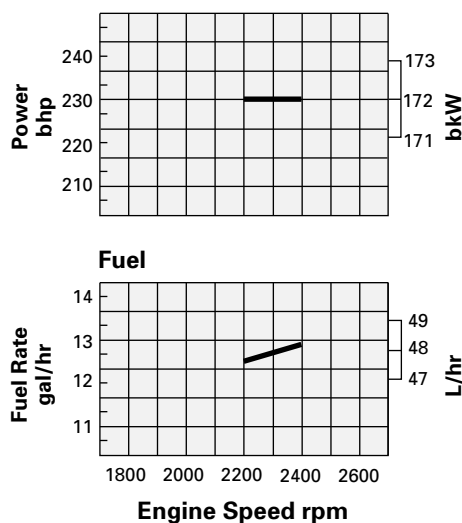
D Rating



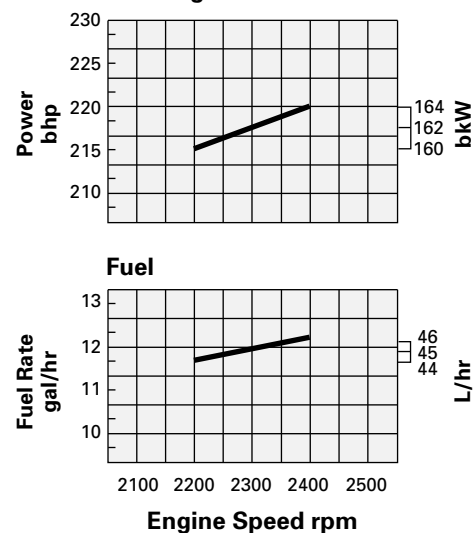
C Rating



B Rating



A Rating



INDUSTRIAL RATINGS

IND-E

IND-E ratings are for service where speed and power are required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable. The maximum horsepower and speed capability of the engine can be utilized for a maximum of 15 uninterrupted minutes followed by one hour at intermittent or duration of the emergency. Operating limits are:

1. Time at full load not to exceed 5% of the duty cycle or 15 minutes max.
2. Load factor limited to 35%.
3. The maximum horsepower and speed capability of the engine can be utilized for a maximum of 15 minutes followed by one hour at intermittent or duration of the emergency.
4. Typical operating hours per year is 500.

Examples of an IND-E industrial application are:

1. Standby centrifugal water pumps
2. Oil field well servicing
3. Crash trucks
4. Gas turbine starters

IND-D

IND-D ratings are for service where rated power is required by period overloads. The maximum horsepower and speed capability of the engine can be utilized for a maximum of 30 uninterrupted minutes followed by one hour at intermittent. Operating limits are:

1. Time at full load not to exceed 10% of the duty cycle or 30 min max.
2. Load factor limited to 50%.
3. Full load operation to a maximum of 30 minutes followed by one hour at intermittent.
4. Typical operating hours per year is 1500.

Examples of an IND-D industrial application are:

1. Offshore cranes
2. Runway snowblowers
3. Water well drills
4. Portable air compressors
5. Fire pump certification power (advertised power)

IND-C (INTERMITTENT)

IND-C ratings are for service where power and/or speed are cyclic. The horsepower and speed of the engine which can be utilized for one uninterrupted hour followed by one hour of operation at or below the continuous rating.

Operating limits are:

1. Time at full load not to exceed 50% of the duty cycle or one hour max.
2. Load factor limited to 70%.
3. Full load operation limited to one uninterrupted hour followed by one hour of operation at or below the continuous rating.
4. Typical operating hours per year is 3000 hours.

Examples of an IND-C industrial application are:

1. Agricultural tractors, harvesters, and combines
2. Truck – off highway
3. Fire pump application power (90% of certified power)
4. Blast hole drills
5. Rock crushers and wood chippers with high torque rise
6. Oil field hoisting

IND-B

IND-B ratings are for moderate-duty service where power and/or speed are cyclic.

Operating limits are:

1. Time at full load not to exceed 80% of the duty cycle.
2. Load factor limited to 85%.
3. Typical operating hours per year is 4000 hours.

Examples of an IND-B industrial application are:

1. Irrigation where normal pump demand is 85% of engine rating
2. Oil field mechanical pumping/drilling
3. Stationary/plant air compressors

IND-A (CONTINUOUS)

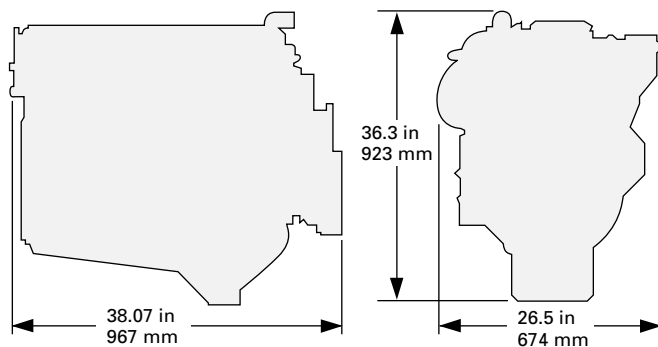
IND-A ratings are for heavy-duty service when the engine is operated at rated load and speed up to 100% of the time without interruption or load cycling. Operating limits are:

1. No hour or load factor limitation.
2. Continuous operation at full load.
3. Average load factor to approach 100%.
4. Typical operating hours per year is over 4000 hrs.

Examples of an IND-A industrial application are:

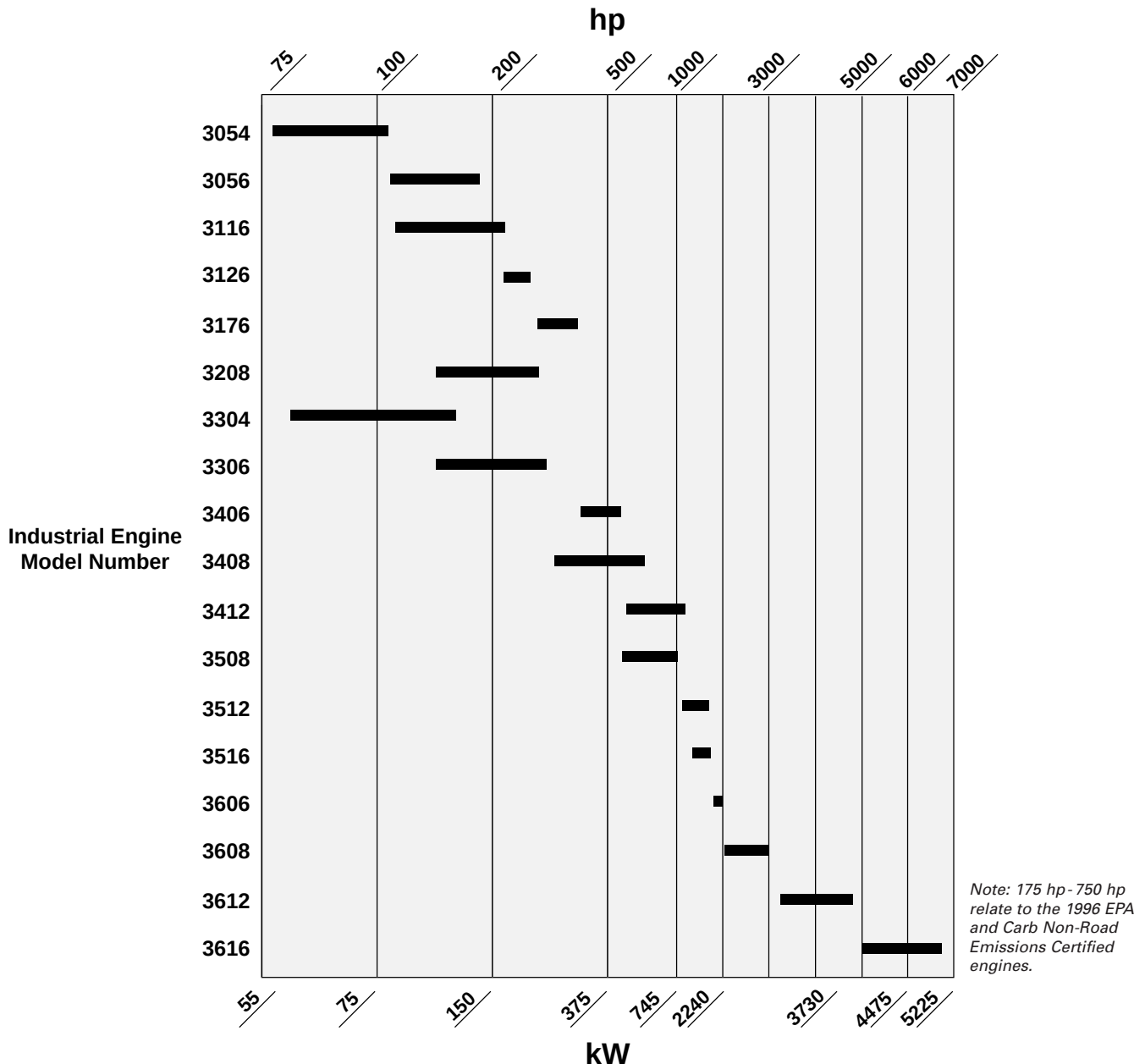
1. Pipeline pumping
2. Ventilation
3. Customer specs

DIMENSIONS



Length dimension does not include flywheel housing and fan drive.
Note: Dimensions not to be used for engine installation.

Match a Reliable Cat® Diesel to Your Application.



RATING DEFINITIONS & CONDITIONS

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions.

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

Fuel rates are based on ISO3046 and on fuel oil of 35° API (60° F or 16° C) gravity having an LHV of 18 390 Btu/lb (42 780 kJ/kg) when used at 85° F (29° C) and weighing 7.001 lbs/U.S. gal. (838.9 g/liter).

Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication.

LEHH7282
Supersedes LEHH6257

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