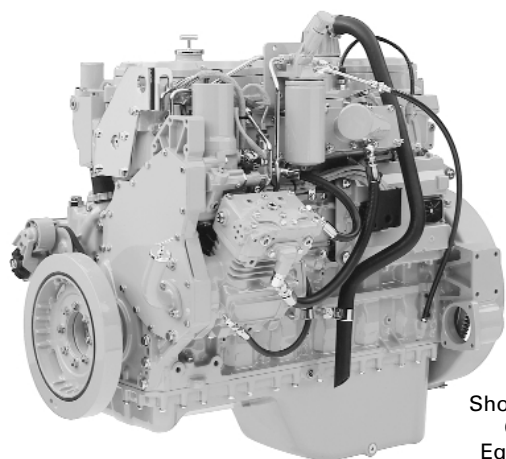




Industrial Engine 3126B

131-224 bkW/175-300 bhp



Shown with
Optional
Equipment

CATERPILLAR® ENGINE SPECIFICATIONS

6-Cylinder, 4-Stroke-Cycle Diesel

Bore — mm (in) 110 (4.33)

Stroke — mm (in) 127 (5.0)

Displacement — L (cu in) 7.2 (442)

Aspiration Turbocharged for ATAAC¹

Compression Ratio 16.0:1

Rotation (from flywheel end) .. Counterclockwise

Capacity for Liquids — L (U.S. gal)

Cooling System² 13.2 (3.5)

Lube Oil System (refill) 28 (7.5)

Weight, Net Dry (approx) — kg (lb)

Including Flywheel 588 (1,295)

¹Air-to-Air Aftercooling

²Engine only. Capacity will vary with radiator size and use of cab heater.

FEATURES

■ EMISSIONS

- Meets Tier 2, Stage II emissions requirements. Tier 2 refers to EPA (U.S.) standards. Stage II refers to European standards.

■ FULL RANGE OF ATTACHMENTS

- Wide range of bolt-on system expansion attachments, factory designed and tested

■ SINGLE-SOURCE SUPPLIER

- Caterpillar:
 - Casts engine blocks, heads, cylinder liners, and flywheel housings
 - Machines critical components
 - Assembles complete engineOwnership of these manufacturing processes enables Caterpillar to produce high quality, dependable product.
- Factory-designed systems built at Caterpillar ISO certified facilities

■ TESTING

- Prototype testing on every model:
 - proves computer design
 - verifies system torsional stability
 - functionality tests every model

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

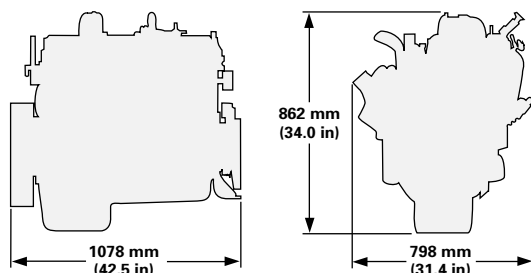
■ UNMATCHED PRODUCT SUPPORT OFFERED THROUGH WORLDWIDE CATERPILLAR DEALER NETWORK

- More than 1,500 dealer outlets
- Caterpillar factory-trained dealer technicians service every aspect of your industrial engine
- 99.7% of parts orders filled within 24 hours — worldwide
- Caterpillar parts and labor warranty
- Preventive maintenance agreements available for “repair before failure” options
- Scheduled Oil Sampling (S•O•SSM) program matches your oil sample against Caterpillar set standards to determine:
 - internal engine component condition
 - presence of unwanted fluids
 - presence of combustion by-products

■ WEB SITE

- For additional information on all your power requirements, visit www.cat.com.

DIMENSIONS

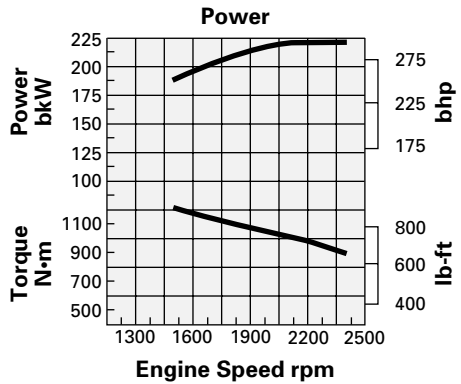


AVAILABLE STANDARD AND OPTIONAL EQUIPMENT

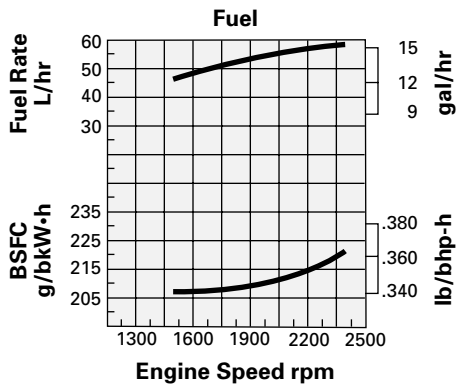
SYSTEM	STANDARD	OPTIONAL
Air Compressor		Air compressors (12.5, 13.2, 16.5 cfm) Air compressor governor Air compressor cleaner
Air Inlet	Turbocharger, mid-mounted Air-to-air aftercooled Inlet air heater	Air cleaner, regular duty Precleaner Service indicator Air cleaner rain cap
Charging System		Charging alternators (12V and 24V) Alternator mountings Alternator pulleys
Control System	ADEM III electronic control Fuel cooled ECM Diagnostics and fault logging Automatic altitude compensation Automatic fuel temperature compensation J1939 CAN datalink Cat datalink <i>Selectable Programmable Features</i> — Top engine limit — 300 rpm range; power trim — $\pm 3\%$ power; torque limiting	
Cooling System	Thermostats and housing Jacket water pump, belt driven Water outlet, 90° forward facing	Belt tightened Fan drives and adapters Fan pulleys
Exhaust System	Exhaust manifold, dry, front Exhaust outlet, dry	Elbow, 90° Muffler Rain cap Straight exhaust adapters
Flywheels and Flywheel Housings	SAE standard rotation	Mandatory attachment Flywheel, SAE No. 1, 2, or 3 Flywheel housing, SAE No. 1, 2, or 3 Torque converter mounting Clark transmission mounting Adapter for use with Allison transmission
Fuel System	Hydraulic electronic unit injector Fuel filter, secondary, LH or rear Fuel transfer pump Fuel priming pump	Flexible fuel lines Fuel/water separator Remote mounted fuel filter
Instrumentation		Instrument panels Gauges Wiring harness
Lube System	Crankcase breather Oil cooler Oil filler and gauge Oil filter, RH or LH Oil pan, front sump Oil pump, gear driven	Fumes disposal Oil lines Oil pan accessories Oil filler locations Valve cover oil filler Cylinder block cover
Mounting System		Structural steel base Front and rear supports Refrigerant compressor mounting
Power Take-Off	Auxiliary drive pulley Power steering pump drive	Rear enclosed clutches Flywheel stub shafts Crankshaft pulleys Hydraulic pump drives
Starting System		Electric starting motor (12V or 24V) Jacket water heater Battery sets (12V or 24V)
General	Paint — Caterpillar yellow Vibration damper Lifting eyes	Tool set

PERFORMANCE CURVES AND DATA

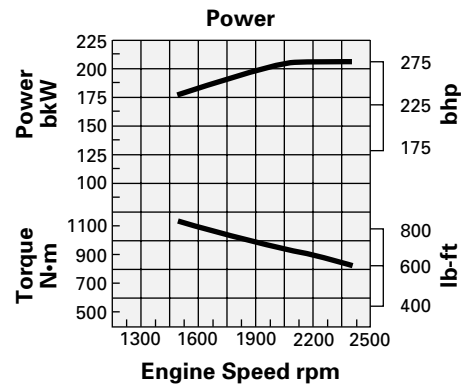
Industrial C (Intermittent) Rating — 224 bkW (300 bhp) @ 2400 rpm
DM7373-00



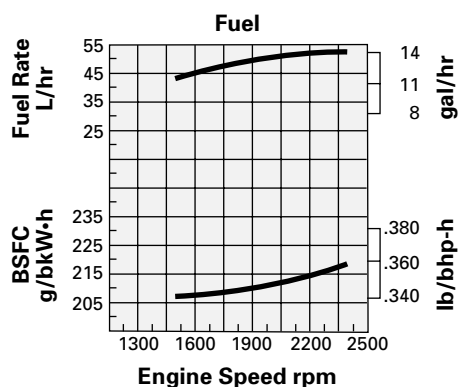
rpm	bkW (bhp)	N·m (lb·ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2400	224 (300)	890 (656)	221.2 (.364)	59.0 (15.6)
2300	224 (300)	929 (685)	217.0 (.357)	57.9 (15.3)
2200	224 (300)	971 (716)	213.7 (.351)	57.0 (15.1)
2100	224 (300)	1017 (750)	211.3 (.347)	56.3 (14.9)
2000	220 (294)	1048 (773)	209.6 (.345)	54.8 (14.5)
1900	215 (288)	1079 (796)	208.7 (.343)	53.4 (14.1)
1800	209 (280)	1109 (818)	208.4 (.343)	52.0 (13.7)
1700	203 (272)	1139 (840)	208.3 (.342)	50.3 (13.3)
1600	196 (263)	1170 (863)	207.8 (.342)	48.5 (12.8)
1500	189 (253)	1203 (887)	206.8 (.340)	46.6 (12.3)



Industrial C (Intermittent) Rating — 205 bkW (275 bhp) @ 2400 rpm
DM6186-00

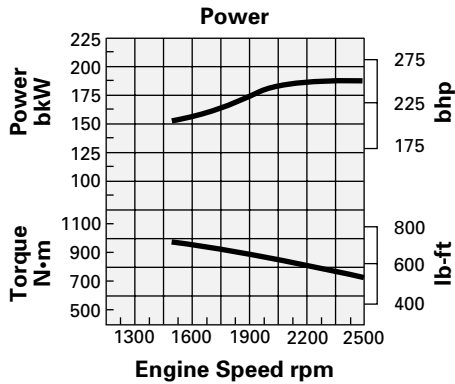


rpm	bkW (bhp)	N·m (lb·ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2400	205 (275)	816 (602)	218.5 (.359)	53.4 (14.1)
2300	205 (275)	852 (628)	216.5 (.356)	53.0 (14.0)
2200	205 (275)	891 (657)	214.3 (.352)	52.4 (13.8)
2100	205 (275)	933 (688)	212.1 (.349)	51.9 (13.7)
2000	202 (271)	964 (711)	210.2 (.346)	50.6 (13.4)
1900	198 (266)	995 (734)	209.2 (.344)	49.4 (13.1)
1800	193 (259)	1026 (757)	208.8 (.343)	48.1 (12.7)
1700	188 (252)	1057 (780)	208.4 (.343)	46.7 (12.3)
1600	182 (244)	1088 (802)	207.7 (.341)	45.1 (11.9)
1500	176 (236)	1119 (825)	206.8 (.340)	43.3 (11.4)

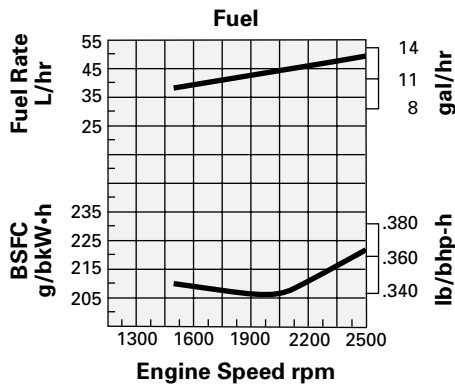


PERFORMANCE CURVES AND DATA

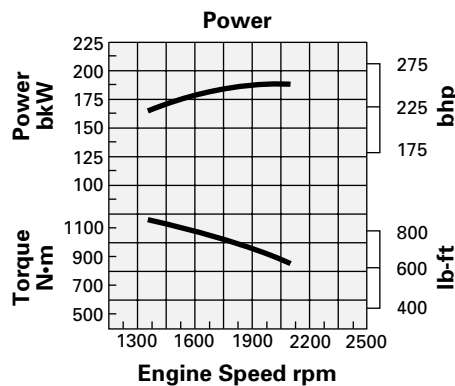
Industrial C (Intermittent) Rating — 187 bkW (250 bhp) @ 2500 rpm
DM6185-00



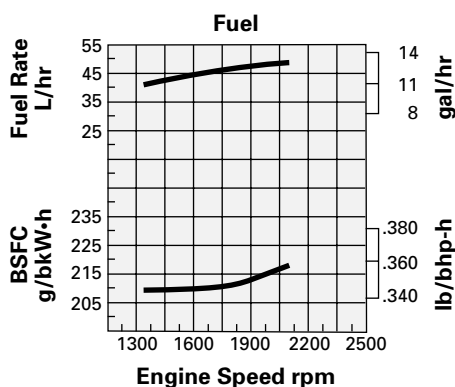
rpm	bkW (bhp)	N·m (lb-ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2500	187 (250)	712 (525)	221.8 (.365)	49.3 (13.0)
2400	187 (250)	742 (547)	218.5 (.359)	48.6 (12.8)
2300	186 (250)	774 (571)	215.2 (.354)	47.8 (12.6)
2200	186 (250)	809 (597)	211.8 (.348)	47.0 (12.4)
2100	183 (246)	833 (614)	208.7 (.343)	45.6 (12.0)
2000	179 (240)	856 (631)	206.7 (.340)	44.2 (11.7)
1900	175 (235)	879 (648)	206.6 (.340)	43.1 (11.4)
1800	170 (228)	902 (665)	207.5 (.341)	42.1 (11.1)
1700	165 (221)	925 (682)	208.6 (.343)	40.9 (10.8)
1600	159 (213)	948 (699)	209.6 (.345)	39.7 (10.5)
1500	153 (205)	971 (716)	210.2 (.346)	38.2 (10.1)



Industrial C (Intermittent) Rating — 187 bkW (250 bhp) @ 2100 rpm
DM6184-00

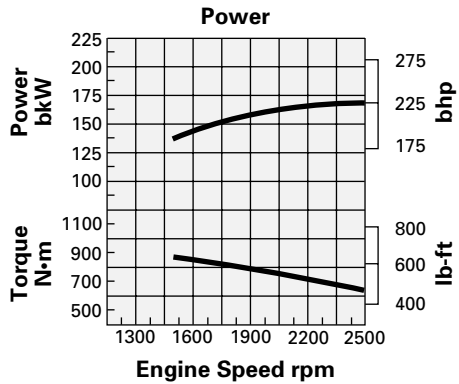
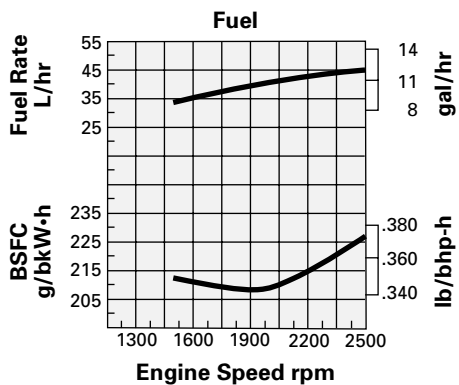


rpm	bkW (bhp)	N·m (lb-ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2100	187 (250)	848 (625)	217.8 (.358)	48.4 (12.8)
2000	186 (250)	890 (656)	215.2 (.354)	47.8 (12.6)
1900	186 (250)	937 (691)	213.4 (.351)	47.4 (12.5)
1800	186 (250)	989 (729)	211.9 (.348)	47.1 (12.4)
1700	183 (246)	1029 (759)	210.4 (.346)	45.9 (12.1)
1600	179 (240)	1068 (788)	209.2 (.344)	44.6 (11.8)
1500	174 (233)	1107 (816)	209.3 (.344)	43.4 (11.5)
1400	168 (225)	1146 (845)	209.4 (.344)	41.9 (11.1)
1350	165 (221)	1166 (860)	209.1 (.344)	41.1 (10.9)



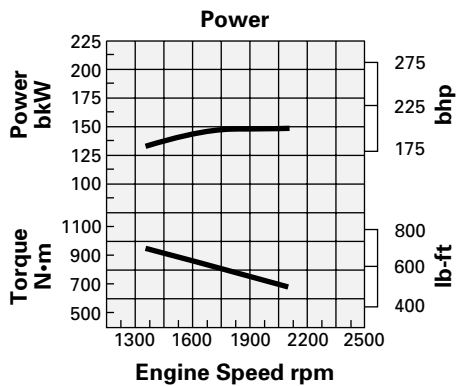
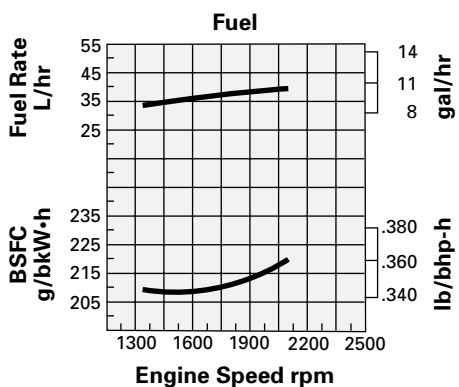
PERFORMANCE CURVES AND DATA

Industrial B Rating — 168 bkW (225 bhp) @ 2500 rpm
DM4960-00



rpm	bkW (bhp)	N·m (lb-ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2500	168 (225)	641 (473)	227.1 (.373)	45.4 (12.0)
2400	168 (225)	668 (493)	223.4 (.367)	44.7 (11.8)
2300	168 (225)	697 (514)	219.6 (.361)	43.9 (11.6)
2200	168 (225)	729 (538)	215.7 (.355)	43.2 (11.4)
2100	165 (221)	749 (552)	211.8 (.348)	41.6 (11.0)
2000	161 (216)	770 (568)	208.7 (.343)	40.1 (10.6)
1900	157 (211)	791 (583)	207.7 (.341)	39.0 (10.3)
1800	153 (205)	811 (598)	208.8 (.343)	38.1 (10.1)
1700	148 (199)	832 (614)	210.5 (.346)	37.2 (9.8)
1600	143 (191)	852 (628)	212.0 (.349)	36.1 (9.5)
1500	137 (184)	873 (644)	212.1 (.349)	34.7 (9.2)

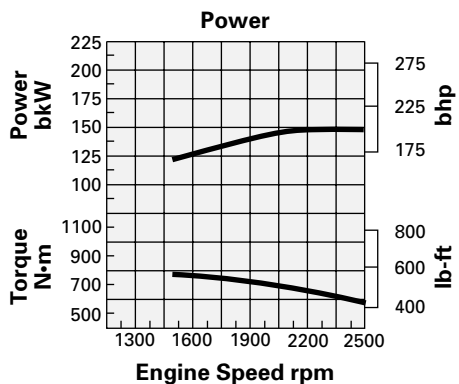
Industrial B Rating — 149 bkW (200 bhp) @ 2100 rpm
DM4958-00



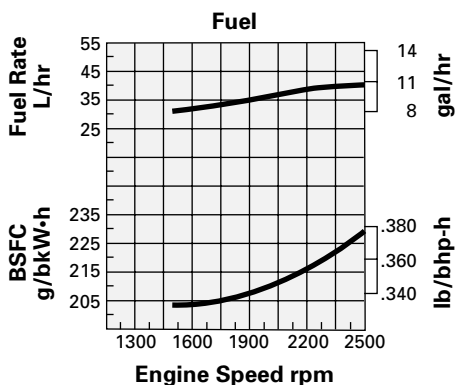
rpm	bkW (bhp)	N·m (lb-ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2100	149 (200)	678 (500)	219.0 (.360)	38.9 (10.3)
2000	149 (200)	712 (525)	215.7 (.355)	38.3 (10.1)
1900	149 (200)	750 (553)	212.8 (.350)	37.9 (10.0)
1800	149 (200)	792 (584)	210.3 (.346)	37.4 (9.9)
1700	147 (197)	827 (610)	208.7 (.343)	36.6 (9.7)
1600	144 (194)	862 (636)	208.2 (.342)	35.9 (9.5)
1500	141 (189)	897 (662)	208.6 (.343)	35.0 (9.2)
1400	137 (183)	932 (687)	209.0 (.344)	34.0 (9.0)
1350	134 (180)	949 (700)	209.0 (.344)	33.4 (8.8)

PERFORMANCE CURVES AND DATA

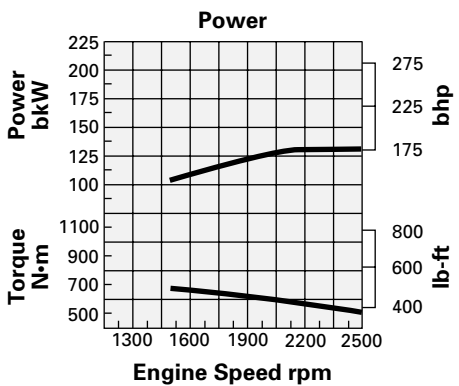
Industrial A (Continuous) Rating — 149 bkW (200 bhp) @ 2500 rpm
DM4959-00



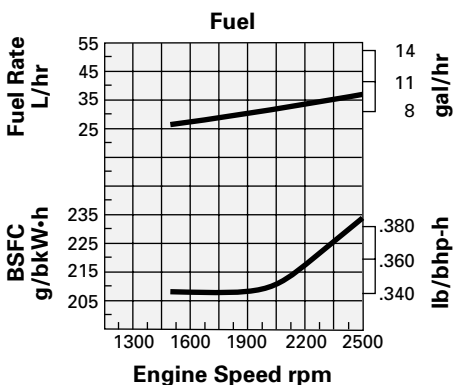
rpm	bkW (bhp)	N·m (lb·ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2500	149 (200)	570 (420)	229.8 (.378)	40.9 (10.8)
2400	149 (200)	594 (438)	225.9 (.371)	40.2 (10.6)
2300	149 (200)	619 (457)	221.6 (.364)	39.4 (10.4)
2200	149 (200)	648 (478)	217.0 (.357)	38.6 (10.2)
2100	147 (196)	666 (491)	212.5 (.349)	37.1 (9.8)
2000	144 (192)	685 (505)	208.8 (.343)	35.7 (9.4)
1900	140 (188)	703 (519)	206.4 (.339)	34.4 (9.1)
1800	136 (183)	722 (533)	205.1 (.337)	33.3 (8.8)
1700	132 (177)	740 (546)	204.3 (.336)	32.1 (8.5)
1600	127 (171)	759 (560)	204.1 (.336)	30.9 (8.2)
1500	122 (164)	777 (573)	204.1 (.336)	29.7 (7.8)



Industrial A (Continuous) Rating — 131 bkW (175 bhp) @ 2500 rpm
DM4957-00



rpm	bkW (bhp)	N·m (lb·ft)	g/bkW-hr (lb/bhp-hr)	L/hr (gal/hr)
2500	131 (175)	499 (368)	234.3 (.385)	36.5 (9.6)
2400	131 (175)	520 (384)	228.5 (.376)	35.6 (9.4)
2300	131 (175)	542 (400)	223.0 (.367)	34.7 (9.2)
2200	131 (175)	567 (418)	218.0 (.358)	33.9 (9.0)
2100	128 (172)	583 (430)	213.5 (.351)	32.6 (8.6)
2000	126 (168)	599 (442)	210.1 (.345)	31.4 (8.3)
1900	122 (164)	615 (454)	208.1 (.342)	30.4 (8.0)
1800	119 (159)	631 (465)	207.7 (.341)	29.4 (7.8)
1700	115 (154)	647 (477)	207.9 (.342)	28.5 (7.5)
1600	111 (149)	663 (489)	208.2 (.342)	27.6 (7.3)
1500	107 (143)	679 (501)	208.3 (.342)	26.5 (7.0)



INDUSTRIAL RATINGS AND CONDITIONS

IND-E

For service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable. The maximum power and speed capability of the engine can be utilized for a maximum of 15 uninterrupted minutes followed by one hour at IND C power or duration of the emergency. Time at full load is not to exceed five percent of the duty cycle. Typical service examples are: standby centrifugal water pumps, oil field well servicing, crash trucks and gas turbine starters.

IND-D

For service where maximum power is required for periodic overloads. The maximum power and speed capability of the engine can be utilized for a maximum of 30 uninterrupted minutes followed by one hour at IND C. Time at full load is not to exceed 10 percent of the duty cycle. Typical service examples are: offshore cranes, runway snow blowers, water well drills, portable air compressors, and fire pump certification power.

IND-C (INTERMITTENT)

For service where maximum power and/or speed are cyclic. The power and speed capability of the engine can be utilized for one uninterrupted hour followed by one hour of operation at or below IND A. Time at full load is not to exceed 50 percent of the duty cycle. Typical service examples are: agricultural tractors, harvesters and combines, off-highway trucks, fire pump application power, blast hole drills, rock crushers and wood chippers with high torque rise, and oil field hoisting.

IND-B

For service where power and/or speed are cyclic. Time at full load is not to exceed 80 percent of the duty cycle. Typical service examples are: irrigation where normal pump demand is 85 percent of engine power, oil field mechanical pumping/drilling, stationary plant air compressors.

IND-A (CONTINUOUS)

For heavy-duty service where the engine is operated at maximum power and speed up to 100 percent of the time without interruption or load cycling. Time at full load can be up to 100 percent of the duty cycle. Typical service examples are: pumping, ventilation, customer specs. **Engine Performance** is corrected to inlet air standard conditions of 99 kPa (29.31 in. Hg) dry barometer and 25° C (77° F) temperature. These values correspond to the standard atmospheric pressure and temperature as shown in SAE J1995.

Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (84.2° F) where the density is 838.9 g/L (7.001 lb/U.S. gal).

The corrected performance values shown for Caterpillar engines will approximate the values obtained when the observed performance data is corrected to SAE J1995, ISO 3046-2, ISO 8665, ISO 2288, ISO 9249, ISO 1585, EEC 80/1269, and DIN 70020 standard reference conditions.

