

Image shown may not reflect actual transmission

### Petroleum

### SPECIFICATIONS

Gross Input Power — hp (kW) .....	550 (410)
Gross Input Torque —	
lb-ft (N•m) .....	1650 (2237)
Maximum Turbine Torque —	
lb-ft (N•m) .....	2430 (3295)
Maximum Output Torque — lb-ft (N•m)	
Top Output .....	13,645 (18,500)
Bottom Output .....	8,482 (11,500)
Rated Input Speed — rpm .....	2100
Maximum Input Speed — rpm .....	2500
Weight, Dry (approx) — lb (kg)	
Two-Wheel-Drive Model .....	2975 (1350)
Four-Wheel-Drive Model .....	3047 (1382)

#### Gears

Type .....	Straight, Spur Planetary
Forward/Reverse .....	8F/1R

#### Transmission Speed Ratios

Gear	Ratio
1F .....	5.73
2F .....	3.57
3F .....	2.72
4F .....	1.95
5F .....	1.43
6F .....	1.00
7F .....	0.74
8F .....	0.63
1R .....	4.46
Overall .....	9.10

### STANDARD EQUIPMENT

Electronic Control Unit (ECU)  
Electronic data link, SAE J1939, SAE J1587  
Electrical system 12V or 24V  
Integral torque converter

### CAT® ENGINES FOR OPTIMIZED POWERTRAIN

C11 ACERT™, C13 ACERT, C15 ACERT (Tier 3)  
C-10, C-15 (Tier 2)

**Note:** See Petroleum Transmissions Approved Applications Guide REHS4553 for more information.

### TRANSMISSION ROTATION

Input rotation — Counterclockwise  
Output rotation — Forward, same as input  
Reverse, opposite input

### TORQUE CONVERTER

Series — TC40631-ESLFT  
Stall torque ratio — 2.46

### CLUTCHES

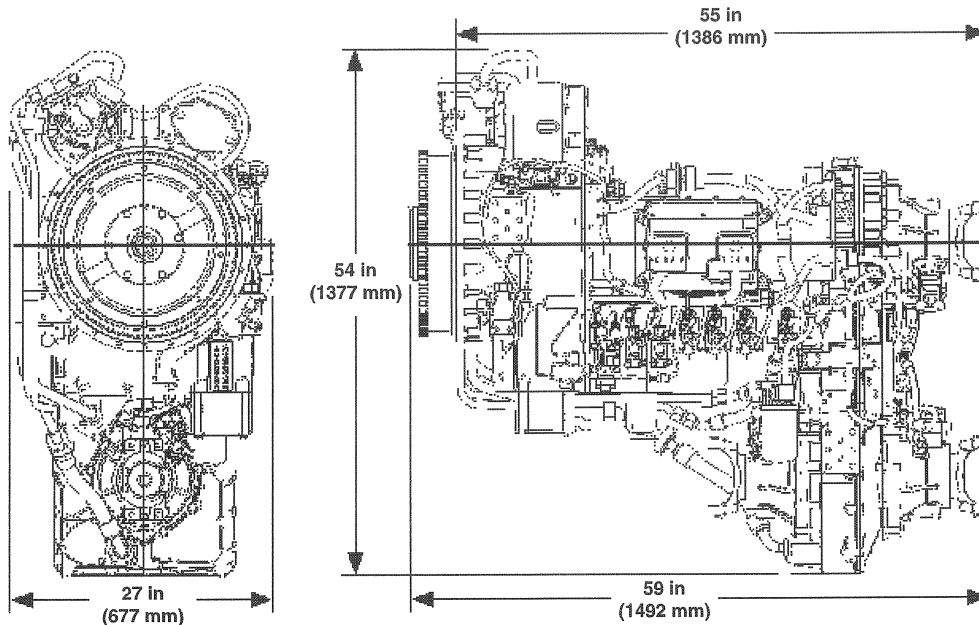
Clutches — electro-hydraulic fully modulated, oil cooled, multidisc  
Clutch modulation control — Cat® Electronic Clutch Pressure Control (ECPC)

### INSTALLATION CONNECTIONS

1 cooler  
1 electrical

## DIMENSIONS

### Four-Wheel-Drive Shown



Transmission Dimensions		
Length of Drive Train	55 in.	1386 mm
Overall Length	59 in.	1492 mm
Width	27 in.	677 mm
Height	54 in.	1377 mm
Weight, dry (approx)	3047 lb.	1382 kg

### OIL SYSTEM

Cat Transmission/Drive Train Oil-4 (TDTO) or equivalent  
 Oil Temperatures  
 Continuous — 195°F (90°C)  
 Maximum Operating — 210°F (99°C)  
 Hydraulic Fill Capacity — 13 gal (50 L)  
 subject to cooler size, lines, and installation —  
 initial fill may be greater  
 Filter Type — 6 micron paper, cartridge  
 integral filter

### MOUNTINGS

Structural application subject to Caterpillar approval  
 Input connection (flywheel) — SAE #1 dry flywheel housing with flexplate converter drive  
 Output connection (yoke) — 1810 output yoke, 1810 companion flange

### POWER TAKE OFF (PUMP AUXILIARY DRIVE)

Description — 2 x PTOs integral live drive, 1:1 ratio from the input shaft, pump drive rotates same as transmission input  
 Location & Rated Power —  
 11:00 200 hp/149 kW and 1:00 200 hp/149 kW  
 Total 220 hp/164 kW  
**Note:** Locations are as viewed from transmission output.  
 Mountings — SAE C mounting pads facing output (2)  
 SAE B mounting pads facing input (2)

### INTEGRAL DROP BOX

Drive Ratio — 1:1 to selected outputs  
 Drop Height — 24"/610 mm from transmission centerline  
 Control System — Electronically controlled output engagement/disengagement  
 Output Connections (yokes) —  
 2WD model: 1 additional 1810 output yoke or 1810 companion flange  
 4WD model: 2 additional 1810 output yokes or 1810 companion flanges  
 Filtration — Additional spin-on filter (6 micron)

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ACERT, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.