

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) |
| Rated Input Speed — rpm | 2100 |
| Maximum Input Speed — rpm | 2500 |
| Weight, Dry (approx) — lb (kg) | 2145 (973) |

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
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

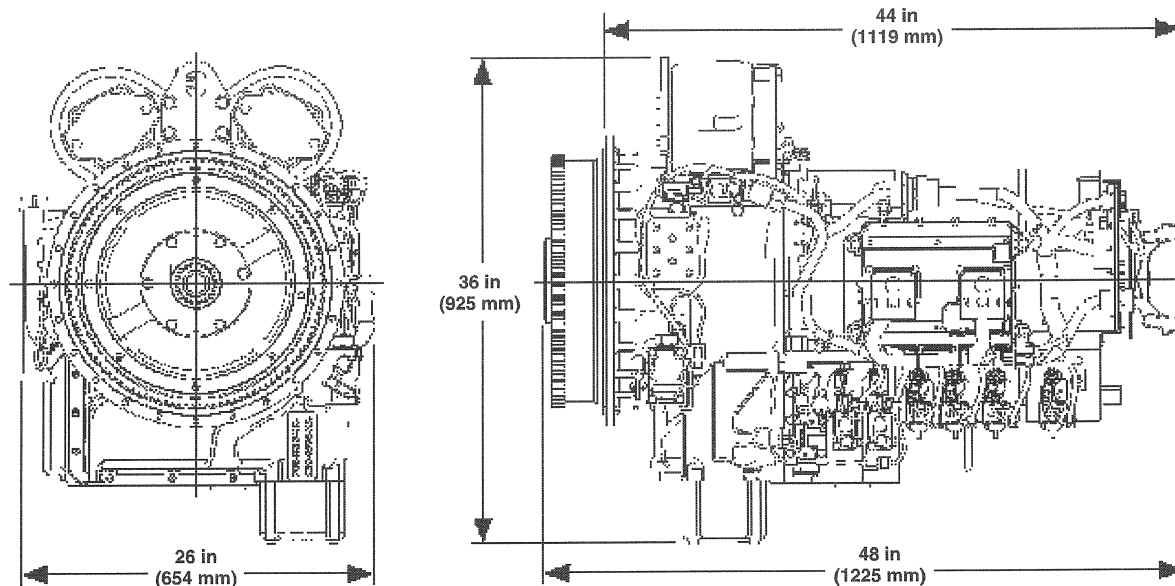
CLUTCHES

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

INSTALLATION CONNECTIONS

1 cooler
1 electrical

DIMENSIONS



| Transmission Dimensions | | |
|-------------------------|----------|---------|
| Length of Drive Train | 44 in. | 1119 mm |
| Overall Length | 48 in. | 1225 mm |
| Width | 26 in. | 654 mm |
| Height | 36 in. | 925 mm |
| Weight, dry (approx) | 2145 lb. | 973 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 — 10 gal (36 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)

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