

### TH55-E70 TH55-E90 Transmissions

#### **Petroleum**

#### **SPECIFICATIONS**

Gross Input Power — kW (Increase Input Torque —	,,
N•m (lb-ft)	,
Rated Input Speed — rpm.	1900
Maximum Input Speed — rpi	m 1970
Weight, Dry (approx) — kg	(lb)
Transmission	2917 (6430)
Engine/Transmission Cou	ıpling 136 (300)
Gears — Forward/Reverse	,
TH55-E70	7F/0R
TH55-E90	
Transmission Speed Ratios	
TH55-E70	TH55-E90
Gear Ratio	Gear Ratio
1F 6.25	1F 4.67
2F 4.59	2F 3.43
3F 3.38	3F 3.03
4F 2.48	4F 2.53
5F 1.83	5F 2.22
6F 1.36	6F 1.85
7F 1.00	7F 1.64



Image shown may not reflect actual transmission

#### STANDARD EQUIPMENT

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

## ENGINES FOR OPTIMIZED POWERTRAIN

Cat® 3512C HD and 3516D HD; Cummins QSK50, QSK60; MTU 12V4000, 16V4000

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

#### TRANSMISSION ROTATION

Input rotation — Counterclockwise Output rotation — Counterclockwise

#### **TORQUE CONVERTER**

Series — TC64442-ESLF Stall torque ratio — 2.23

#### **CLUTCHES**

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

8F..... 1.36 9F..... 1.00

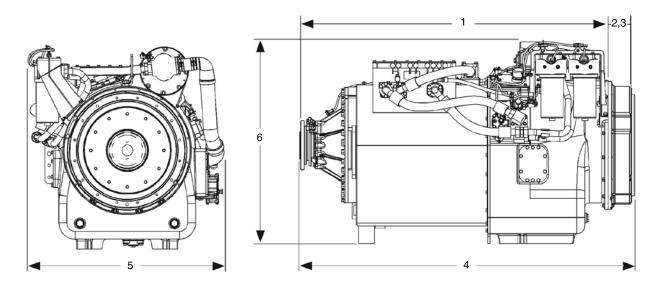
#### INSTALLATION CONNECTIONS

- 1 cooler
- 1 pump
- 1 electrical

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#### **DIMENSIONS**



Transmission Dimensions		
(1) Length of Drive Train w/o adapter	1961 mm	77 in
(2) Length w/adapter 123-6905 - SAE 0	150 mm	5.91 in
(3) Length w/adapter 250-7056 - SAE 00	145 mm	5.72 in
(4) Overall Length	2137 mm	84 in
(5) Width	1246 mm	49 in
(6) Height	1288 mm	51 in
Installed Weight, dry (approx)	3053 kg	6730 lb

#### **OIL SYSTEM**

Cat Transmission/Drive Train Oil-4 (TDTO) or equivalent

Oil Temperatures

Continuous — 90°C (195°F)

Maximum Operating — 99°C (210°F)

Hydraulic Fill Capacity — approx. 189 L (50 gal) actual capacity depends on installation,

application, and slope capability

Filter Type — 6 micron synthetic, cartridge remote mount

#### MOUNTINGS

Structural application subject to Caterpillar approval

Input connection (flywheel) — SAE #0 (when combined with required Caterpillar engine adapter)

Output connection (flange) — GWB 390.65

>2500 hp:

GWB 390.70

# POWER TAKE OFF (PUMP AUXILIARY DRIVE)

Drive — engine driven

Location — 3 o'clock and 11 o'clock from rear

Mountings — SAE 8 bolt (J704) @ 3 o'clock\* SAE C-size (J744) @ 11 o'clock,

2- and 4-bolt mount

2- and 4-boit mount

Maximum PTO Power — 112 kW (150 hp) @ 1900 rpm

\*Pump drive subject to 15 kW (20 hp) @ 1900 rpm limitation until device is approved by Caterpillar

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