

# TH53-E60 Transmission



Image shown may not reflect actual transmission.

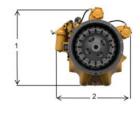
## **FEATURES AND BENEFITS**

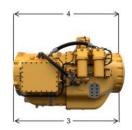
- The TH53-E60 is the most advanced Cat®
   Frac transmission and is designed specifically to meet the demands of this market.
- Lightweight transmission with narrow design to allow mounting between frame rails
- Improved durability to match engine life.
- Simplified installation and maintenance includes:
  - Factory installed filters with bypass indicator
  - Rigid-mounted ECU with wire harness and remote mount capability
  - Low oil indicator
  - Oil pressure transducer
- Lightweight frame increases mobility
- Improved durability to meet industry needs
- Built upon TH55's advanced controls, providing industry-leading performance
- Designed with six usable gears ideally suited for heavy-duty frac application
- Designed to simplify maintenance
- For all your petroleum power requirements, visit www.cat.com/oilandgas

## **SPECIFICATIONS**

Gross Input Power	2500 hp (1865 kW)		
Grows Input Torque	8914 lb-ft (12086 N•m)		
Rated Input Speed	1900 rpm		
Maximum Input Speed			
Electrical System	24V		
Gears			
Type			
Forward/Reverse	6F/OR		
Transmission Gear Ratios			
Gear	Ratio		
1st			
2nd	3.33		
3rd	2.99		
4th			
5th	2.20		
6th	1.62		

## **DIMENSIONS**





Weight with coupling (approx).	2000 kg ( 4420 lb)
Overall Height (1)	1122 mm (44 in)
Overall Width (2)	1215 mm (48 in)
Overall Length (3)	1818 mm (71.6 in)
Length of Drive train (4)	1793 mm (70.6 in)

#### **OPTIONS**

#### **ENGINES OPTIMIZED FOR POWERTRAIN**

Optimized for Cat 3512C and 3512E. See Petroleum Transmission Approved Application Guide REHS4553 for more information.

#### TRANSMISSION ROTATION

Input rotation - counterclockwise Output rotation - counterclockwise (as viewed from rear)

#### **TORQUE CONVERTER**

Series - TC58733-ESLF Stall torque ratio — 2.30

## **CLUTCHES**

Clutches - Electro-hydrolic fully modulated, oil cooled, multidisc

Clutch modulation control - Cat Electronic Clutch Pressure Control (ECPC)

#### **OIL SYSTEM**

Cat Transmission/Drive Train Oil - 4 (TDTO)
Oil Temperature Continuous - 195°F (90°C)
Maximum Operating - 210°F (99°C)
Hydraulic fill capacity - Approx. 28.5 gal (108 L), 27.5 gal (104 L) intial fill, 23 gal (87 L) refill, subject to cooler size, lines, and installation

Filter Type - 6 micron synthetic, cartridge remote mount

#### INSTALLATION CONNECTIONS

2 oil cooler lines 1 electrical connector

## **MOUNTINGS**

Structural application subject to Caterpillar approval Input connection (flywheel) - SAE #0
Output connections (yoke) - GWB 390.65, GWB 390.60

## STANDARD EQUIPMENT

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

## POWER TAKE-OFF (PUMP AUXILARY DRIVE)

Drive - engine driven PTO
Location - 12 o'clock, 10'o'clock
Maximum PTO Power - 150 hp @ 1900 rpm
Mountings - SAE 8 bolt (J704) SAE C-size (J744)
Rotation

Pump rotation direction depends on orientation of PTO

Refer to chart below for available PTO ratios and ratings.

	10 o'clock PTO & 12 o'clock	
Location	As viewed from rear	
PTO Installed	3rd Party	Caterpillar
PTO Mount Type	SAE J704 8-bolt*	
Rated Power	20 hp**	150 hp
Rotation	Drive Gear Opposite Engine	
Number of Teeth on Drive Gear	68	
Ratio @ SAE J744 "C" IPD Mount	Dependant on PTO Installed	1.275 / 1.417***

<sup>\*</sup> When 577-2595 Idler Gear Group is Installed

Information contained in this publication may be considered confidential. Discretion is recommended when distrubiting. Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.

<sup>\*\*</sup> Pump drive without Cat PTO subject to 20 hp @ 1900 rpm until PTO device is approved by Caterpillar

<sup>\*\*\*</sup> Two PTO Arrangements Available. See LEHW20261 for details.