

Transmission

Summarize for us the overall condition of the transmission before you started working on it. How was the clutch unit? Was the gearbox intact? Did it need a lot of work, just a little, or none at all?

Then, describe in as much detail as possible, what was involved in the restoration of your tractor's transmission. Support your words with pictures. Tell us, in detail, what we will see in the before and after photos. Anything of interest you would like us to pay particular attention to?



ChevronTexaco
Tractor

restoration competition



ChevronTexaco
Tractor
restoration competition

Find It!
Fix It!
Finish A Winner!

Date: 8-20-03

Transmission

The transmission gears 2nd, 5th and reverse were out of this tractor. The shifting quality had depleted over the years. We decided to split the tractor. When splitting the tractor, I found that the top set of gears in the transmission (the easiest ones to work on) were in excellent condition. The problem seemed to be in the lowest set of gears. There were no broken gears, but a lot of wear. Since I lack knowledge and experience of transmission repair, I decided to have the local John Deere dealer repair the transmission. I hauled just the transmission to the dealer, letting them fix the transmission with their tools and expert knowledge of transmission repair.

While the tractor was split for the transmission we put in new PTO brakes and rebuilt the hydraulic-transmission pump. The clutch was not slipping, but the PTO didn't work; so with the engine out we repaired the PTO clutch and replaced worn or warped clutch disks.

Transmission



This is the transmission with the rockshaft cover off and is about to be split from the clutch housing.

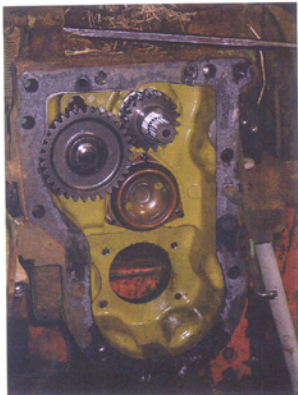


Here is a closer look at the transmission and transmission oil sump pump



I am now holding the top set of gears in the transmission, which are in good shape.

Transmission



This is the front side of the transmission and shows the Power Take-Off brake, as well as the gears on the shafts that run to the clutch.



This is the clutch for the transmission and PTO. The transmission clutch was in fair condition and only needed minor repairs, but the PTO clutch had to be totally rebuilt.