Powering Growth…

2012 Major Inspection: Torque Converter Assy Maintenance

…Generating Stability
Twin Disc Hydraulic Torque Converter

Model No:  4-SGE-1607-2
Serial No:  3S1159
Local Repair Facility:  
Palmer Johnson Power Systems
www.pjpower.com
#562-868-6262  (Southern California)
Service Manager:  Geoff Lord

***Expert:  Mike Kopetsky (Kansas Branch)
#913-268-2941 or #816-918-8396
History of our unit

Startup in 1989
Primarily base-loaded entire lifetime
Total hours on unit: 180,000
Total starts: 980

Torque Converter has performed without incident for its lifetime. After many discussions with Palmer, it was decided to remove the unit and send up to their shop for a complete teardown, inspection and to replace any worn or damaged parts.

Palmer initially said “Hey if it ain’t broke, don’t fix it!”

After further discussions focusing on the total number of hours on the unit, it was their recommendation to have it serviced.
Removed entire Assembly and Shipped to service Shop.
After Reinstallation: Unit would not stop Ratcheting
Found the Gears were “out of timing”

After removing the cover, were able to watch the gears sliding up and down, and it was noticed that they were not cycling equally (each side). Removed the bearing assy, and adjusted.
Initial and Post Timing fix Video’s
Found the gears “out of sequence”

After fixing the timing, and it still not working, we then noticed (after talking with the expert), and the position of the gears/pistons were not equal. He stated that sometimes when they rebuild these things they install the gear/pistons incorrectly. Only 3 of the 4 piston ends have “seals”, and if one of them is installed upside down, they will not be in sequence. We then removed the covers, confirmed this was the case, and reinstalled correctly. Worked fine!
Drawings