**Troubleshooting step**

BACKUP LOG yourdb WITH TRUNCATE\_ONLY

Step 1: if your recovery model is FULL, be ensuring that you made backup log. BACKUP LOG databaseName TO DISK='C:\fileName.TRN'

Step 2: Check the log space used with the command dbcc SQLperf(logspace). Do you have a free space?

Step 3: use the DBCC OPENTRAN Transact-SQL to verify if there is an active transaction in a database at a particular time. If yes kill it.

Step 4: check the value of log\_reuse\_wait\_desc

select name, database\_id,recovery\_model\_desc,log\_reuse\_wait\_desc from sys.databases where name LIKE 'yourDatabaseName'

**Cause**In my case, column log\_reuse\_wait\_desc returned REPLICATION (e.g. [**BOL Factors That Can Delay Log Truncation**](http://technet.microsoft.com/en-us/library/ms345414.aspx)). So the log was not truncated because records at the beginning of the log are pending replication.

Ensure the Log Reader Agent is running or use sp\_repldone to mark transactions as distributed. Typically the Log Reader agent will parse the entire log and then mark each log record as replicated by executing sp\_repldone.

**Resolution**When I tried doing the same manually, my issue was fixed:

EXEC sp\_repldone @xactid = NULL, @xact\_segno = NULL, @numtrans = 0,    @time = 0, @reset = 1

With sp\_repldone, all replicated transactions in the log are marked as distributed. This is useful when there are replicated transactions in the transaction log that are no longer valid and you want to truncate the log.

**If you execute sp\_repldone manually, you can invalidate the order and consistency of delivered transactions. So if you are not aware with her impact, I recommend you to drop your Publication, Subscription and Disabled Replication. Then run the shrink command and recreate the replication.**

Sometimes when sp\_repldone is used, is possible that we get the following error.

**Msg 18757, Level 16, State 1, Procedure sp\_repldone, Line 1 The database is not published**

It means that our Database is not published. A workaround to this error, is to publish our database with the below statement, then try again the sp\_repldone and finally execute again the sp\_dboption with publish = false.

sp\_dboption '', 'Publish', 'true'

Ex.

sp\_dboption '', 'Publish', 'true'

EXEC sp\_repldone ....

sp\_dboption '', 'Publish', 'false'

<http://sqlpost.blogspot.com/2009/06/sql-server-error-log-was-not-truncated.html>

<http://blogs.msdn.com/b/sqlserverfaq/archive/2009/06/01/size-of-the-transaction-log-increasing-and-cannot-be-truncated-or-shrinked-due-to-snapshot-replication.aspx>

<http://blogs.technet.com/b/mdegre/archive/2011/09/04/unable-to-shrink-the-transaction-log.aspx>