

Class-8 Truck Transmission

The heavy duty class-8 truck transmission is one of the most popular 10-speed transmissions sold world-wide. For over two decades it has been the transmission of choice for many OE brands, setting the standard for reliable performance and durability. The transmission features 30% more shock load capacity, finer teeth on the sliding clutches, and single rail shift controls for improved toughness and easier shifting. The lubrication system features an innovative gerotor style pump developed by Cascon.



Pump Description:

This transmission lubrication pump employs a number of design features and manufacturing processes intended to support relatively high production quantities of 50,000 or more per year. The gerotor pumping element is a custom designed with drive gear teeth molded directly into the outer profile element. The gerotor rides on a shoulder bolt, and is driven through the outer element directly from a gear in the transmission thereby eliminating a rotating shaft in the pump. High volume casting and fine-blanking processes are used on the housing and cover respectively. All critical dimensions are under statistical process control (SPC) and are monitored via automated coordinate measurement machine (CMM) readings on a sample basis.



Selected Performance Data:

Fluid	SAE-90
Flow Rate	4.6 GPM
Temperature Range	-40 degF to +250 degF
Operating Pressure	40 psid
Operating Speed	2000 rpm (nom)
Regulating Valve	Integral - 65 psi crack
MTBF	1 million miles
Duty Cycle	Continuous

