

# OILS FOR USE IN GLOBAL ROAMER MODEL DS OVERDRIVES

The Global Roamer Overdrive has bronze internal components. For this reason you must be very selective about which oil you put in your transfer case when the overdrive is installed. As specified in the installation instructions, oils rated API-GL4 are required.

The oil recommended by Land Rover for the TD5 transfer case is 75w90. A CASTROL oil that meets this requirement and the Roverdrive API-GL4 requirement is:

**CASTROL SYNTRANS MULTIVEHICLE 75-90 GL4 Fully Synthetic MTF**

## Equivalent API-GL4 Manual Transmission Fluids are:

AMSOL	Synthetic Manual Transmission Fluid MTF
MORRIS LUBRICANTS	Lodextrol MTF GL4
REDLINE	MTL 70-80 GL4 Gear oil
SMITH AND ALLEN	75w-80 Fully Synthetic Gear Oil GL4

## OTHER API-GL4 oils

Below is a list of alternative API-GL4 oils. Some brands use different designations in different countries. Some brands may not be available in your locality. There will be many other API GL4 oils available to you but check with the vendors that their oil is suitable for use in manual gearboxes with bronze and brass components. (In technical terms this means they must pass a copper corrosion test of 3 hours at 121 deg C with a 1A grade.) Standard API GL4 mineral oils are suitable for vehicles with standard engines. Synthetic and Semi-synthetic API GL4 oils may offer better performance with chipped TD5 and other higher performance engines.

CALTEX	Caltex Thuban GL4	ESSO	Esso gear oil GP90 GL4
FUCHS	Titan Supergear 75w85 GL4	GULF	GulfGear SAE 80-90 EP GL4
MOBIL	Mobilube XHP 75-90 GL4	PENRITE	Manual gear oil 80 75w80 GL4
PENZOIL	Penzoil EP Gear GL4	SHELL	SPIRAX S3G API GL4

## WARNING ABOUT API GL5 OILS

**ANY OIL WHICH MEETS API-GL5 SPECIFICATION IS A HYPOID AXLE OIL AND MUST NOT BE USED IN THE TRANSFER CASE WHEN OUR OVERDRIVE IS FITTED. API-GL5 oils are formulated specifically for hypoid axles and are often laced with chemicals that are corrosive to copper based alloys. Use of API GL5 oils may cause corrosion of thrust washers and synchromesh parts, shorten the life of the overdrive and void the warranty.**

If it says 'API GL5 Hypoid Gear Oil' or on the label DO NOT use it in the transfer case if our overdrive is installed. This is an axle oil.

If the product claims to cover both GL5 and GL4 specifications it is an axle oil and NOT a suitable lubricant in our overdrives.

If there is no API designation on the oil don't take any chances as it may be very corrosive. 'Limited Slip' type oils are also totally unsuitable.

Beware the Auto Shop salesman who claims API GL5 is a 'better' oil than an API GL4. This may be the case in an axle but it is certainly not the case in an automotive gearbox.