



5TRANSOL HD is a motor oil made specifically for transmission, transfer cases, and It is of a higher viscosity to better protect the gears and usually is associated with a strong sulfur smell.

The high viscosity ensures transfer of lubricant throughout the gear train.

This is necessary since the devices needing this heavy oil do not have pumps for transferring the oil with only a portion of the lower most gears bathed in an oil sump.

This heavy oil can create viscous drag leading to inefficiencies in vehicle operation.

Some modern automatic transaxles (integrated transmission and differential) do not use a heavy oil at all but lubricate with the lower viscosity hydraulic fluid, which is available at pressure within the automatic transmission.

Most lubricants for manual gearboxes and differentials are hypoid gear oils.

5TRANSOL HD contain extreme pressure (EP) additives and antiwear additives to cope with the sliding action of hypoid bevel gears.

A range of **Single** and **Multigrade** viscosity extreme pressure (EP) automotive gear oils that satisfy the **API GL5** Service Classification.

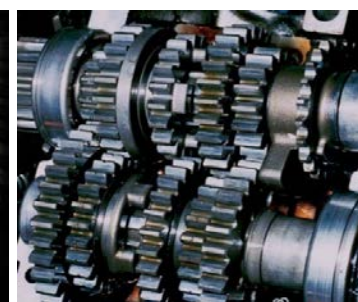
5TRANSOL HD products are formulated from high quality base oils and sulphur/phosphorus **EP** additive technology.

The multigrades incorporate a highly shear-stable VI improver to withstand the shearing stresses of hypoid gear service.

5TRANSOL HD oils can be used in the gears, particularly hypoid, of passenger cars and other automotive equipment operating under high-speed/shock-load, high-speed/low-torque and low-speed/high-torque conditions.

☒ All grades comply with the API GL5 Service Classification. MIL-L-2105B or C approved dependent on viscosity.

☒ ZF TE-ML 01 - constant mesh gear boxes (non-synchromesh) ZF TE-ML 05 - axles and differentials ZF TE-ML 07 - reduction gears



GRADE	Test Method	Units	80W90	85W-140	90EP	140EP
Density @ 15°C	ASTM D1298	kg/l	0.9	0.92	0.9	0.93
Flash Point	ASTM D92	°C	220	230	204	210
Kin Viscosity @ 40°C	ASTM D445	cSt	134	484	192	525
Kin Viscosity @ 100°C	ASTM D445	cSt	13.7	29.2	16.7	31
Viscosity Index	ASTM D2270		118	120	101	108
Pour Point	ASTM D97	°C	-24	-15	-21	-9
Colour	ASTM D1500		5	5.5	6	6.5
Neutralization Number	ASTM D664	mgKOH/g	1.7	1.8	1.4	1.4