



# Shell Transmission ZFLD-PLUS 75W-80

*Special synthetic oil for ZF gearboxes*

Shell Transmission ZFLD-Plus 75W80 is a synthetic and specially developed for use in heavy duty ZF gearboxes where specification TEML-01L/02L and where TEML-02D was previously required.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Longer oil drain capability**  
Shell Transmission ZFLD-Plus has the ZF long drain approval and can be used for extended oil drain periods.
- **Low power loss - improved efficiency**  
The use of synthetic high fluidity base oil with special frictional properties can help give less power loss, lower operating temperature and higher mechanical efficiency. Long additive life and excellent viscosity control help maintain performance over the oil's lifetime providing smooth shifting under all conditions.
- **Longer transmission life**  
Outstanding pitting, scoring and wear protection. Excellent synchromesh compatibility.

### Main Applications

- **Automotive transmissions**  
For heavy duty synchromesh gearboxes, including those with integrated retarders, where mineral or synthetic gear oils are required.
- **Carbon Synchromesh**  
Approved for service fill use in ZF heavy duty gearboxes with conventional and carbon based synchromesh materials.

### Specifications, Approvals & Recommendations

- API Service Classification GL-4
  - ZF TE-ML 01L, 02L, 16K
  - MAN 341 Typ Z4
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Typical Physical Characteristics

Properties			Method	Shell Transmission ZFLD-PLUS 75W-80
SAE Viscosity Grade			SAE J 306	75W-80
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ISO 3104	57.65
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ISO 3104	9.65
Viscosity Index			ISO 2909	153
Density	@15°C	kg/m <sup>3</sup>	ISO 12185	860
Flash Point (COC)			ISO 2592	230
Pour Point			ISO 3016	-42

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

### Health, Safety & Environment

#### • Health and Safety

Shell Transmission ZFLD-Plus is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

### **Additional Information**

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.