SHIFT ULTRA FE
LONG LIFE GEAR OIL

PRODUCT DESCRIPTION:
Shift Ultra FE is a fully synthetic fluid developed specifically to meet ZF extended drain intervals requirements (540.000 km) and is recommended for use in all ZF commercial manual and automated gearboxes, whether synchronized or non- synchronized, running under the most severe conditions of load, speed and temperature. It can be recommended in other manual transmissions requiring API GL-4 and is particularly suitable for severe applications where loads and temperatures are higher.

APPLICATION:
Shift Ultra FE is specifically developed for all ZF gearboxes with or without Intarder allowing a drain interval up to 540.000 km. This lubricant is particularly suited for latest ZF gearboxes with Carbon synchronization (ZF TE-ML 01E) and for ZF gearboxes with Molybdenum synchronization (ZF TE-ML 02E). Shift Ultra FE 75W-80 meets the requirements of VOLVO 97307 (Drain interval up to 400.000 km), MAN 341 type Z5 (Drain interval up to 500.000 km) with or without Intarder, Retarder application VOITH CLASS C, MAN 341 type VR and MB 235.28. Shift Ultra FE is also suitable for extended drain intervals on gearboxes of commercial vehicles from Renault Trucks, DAF, Iveco and for all commercial vehicles equipped with manual and automated gearboxes and any application requiring an API GL-4 level of performance.

FEATURES & BENEFITS:
- Excellent frictional characteristics with carbon, sinter bronze and molybdenum synchronizers provides improved shift quality and extends component life.
- Reduced cost of maintenance due to extended drain intervals.
- Excellent lubrication at low and high temperatures.
- Excellent protection of gearboxes against wear and corrosion due to extreme-pressure properties of oil.
- Excellent low temperature fluidity due to a high viscosity index, generating benefits during cold starts and limiting drag losses and fuel consumption.
- Improved gear engagement.
- Excellent thermal and oxidative stability extends the life of transmission and lubricant.

PERFORMANCE LEVELS / MEETS OR EXCEEDS:

SAE GRADES	75W-80
API	GL-4
VOITH	CLASS C
VOLVO	97305/ 97307
MAN	341 E3/Z3/Z4/Z5
MB	235.28
ZF	TE-ML 01E/02E/16P/01L/02D/02L/16K/08

TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	SHIFT ULTRA FE
			75W-80
KV@ 104°F /40°C	D7042	cSt	59.6
KV @ 212°F /100°C	D7042	cSt	9.4
Viscosity Index	D2270	-	140
Density@15°C	D4052	g/cm3	0.850
Flash Point (min)	D92	°C	200
Pour Point (max)	D97	°C	-42
Brookfield Viscosity	D2983	cp	50,000(-40C)

DISCLAIMER: The test data provided above is not a specification but is indicative and may vary within permissible production tolerances. Lubrex reserves the right to modify this test data. Updated information will supersede previous versions, so please refer to the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:
Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.lubrex.net

HEALTH & SAFETY:
This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet www.lubrex.net

PROTECT THE ENVIRONMENT:
Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

STORAGE:
We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

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