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## ROVER MTF 94

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### DESCRIPTION

**ROVER MTF 94** is a specific manual transmission fluid, formulated with dedicated additive technology and non-conventional base stocks.

**ROVER MTF 94** has been developed in response to higher power output in manual transmissions and subsequent concerns about gear pitting resistance and bearing durability. In addition **ROVER MTF 94** provides the right answer to synchroniser shift problems in manual transmissions.

### BENEFITS

**ROVER MTF 94** provides outstanding performance with regard to oxidation and thermal stability, anti-corrosion and rust protection, foaming and compatibility with various manual transmission components such as elastomeric seals and plastic parts.

**ROVER MTF 94** additive technology has been carefully selected to provide exceptional frictional characteristics, resulting in excellent gear change feeling both at cold and under operating conditions. In addition, these frictional characteristics are retained over a longer period than more common MTF fluids available on the market.

**ROVER MTF 94** has been successfully tested with a variety of synchroniser materials, including brass, paper lined and molybdenum sprayed synchronisers.

The proprietary combination of anti-wear/extreme pressure additives provides excellent gear protection, without compromising the oxidation and thermal stability of the product. **ROVER MTF 94** is capable of withstanding prolonged periods at 150°C.

In addition, its high viscosity index characteristics permits use over a wide temperature range by providing excellent low temperature fluidity and, at the same time, retaining the desired viscosity under high temperature conditions.

**ROVER MTF 94** can be used over longer drain periods compared to commonly available manual transmission fluids.

## **PRODUCT INFORMATION**

# **ROVER MTF 94**

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### **APPLICATION**

**ROVER MTF 94** can be used in a variety of synchronised manual transmissions where a 75W-80W or 80W manual transmission oil meeting the API GL-4 performance level is recommended.

**ROVER MTF 94** will provide excellent performance in those instances where gear shifts are very obstructive.

**ROVER MTF 94** can be applied in light-duty non-hypoid transfer boxes.

**ROVER MTF 94** is suitable for ZEXEL limited slip axles.

### **PRODUCT RECOMMENDATIONS AND APPROVALS**

**ROVER MTF 94** is recommended for Rover models equipped with the PG-1 gearbox (45, MGF) or Getrag 283 gearbox (75), and also for the R65 gearbox from construction date mid-2000 onwards (25, 45).

**ROVER MTF 94** is recommended for use in manual transmissions of all Landrover vehicles.

**ROVER MTF 94** can additionally be used in Honda manual transmissions.

### **PRODUCT MAINTENANCE**

There are no special storage or handling requirements for this product.

**PRODUCT  
INFORMATION**

**ROVER MTF 94**

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**REMARK**

*The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This edition supersedes all previous editions and information contained in them.*



## PRODUCT INFORMATION

### TYPICAL DATA ROVER MTF 94

Code number		30378
ETL - number	Test methods	7289
Density, 15Deg C, kg/l	ASTM D1298	0.878
Flash Point COC, Deg C	ISO 2593	185
Pour Point, Deg C	ISO 3016	-45
Visc, Kinematic, 40Deg C, mm <sup>2</sup> /s	ISO 3104	53
Visc, Kinematic, 100Deg C, mm <sup>2</sup> /s	ISO 3104	10.5
Visc, Brookfield, -20Deg C, mPa.s	ASTM D2983	2100
Visc, Brookfield, -30Deg C, mPa.s	ASTM D2983	9000
Visc, Brookfield, -40Deg C, mPa.s	ASTM D2983	60000
Viscosity Index	ISO 2909	191
Foam Seq I, IAB, ml	ISO 6247	0
Foam Seq I, AFT 10' ST, ml	ISO 6247	0
Foam Seq II, IAB, ml	ISO 6247	0
Foam Seq II, AFT 10' ST, ml	ISO 6247	0
Foam Seq III, IAB, ml	ISO 6247	0
Foam Seq III, AFT 10' ST, ml	ISO 6247	0
Shear Stability, 20h	CEC L45T93	
Visc. Kinematic, 100Deg C, mm <sup>2</sup> /s		8.0
FZG Damaged Load, a/8.3/90	DIN 51354	11
Elemental Analysis	X-RAY	
Calcium, %w		0.32
Phosphorus, %w		0.17
Zinc, %w		0.17
Nitrogen, %w	ASTM D3228	0.01
Sulphated Ash %w	ASTM D0874	1.53
Total Acid Number, mgKOH/g	DIN 51558	3.6
Total Base Number, mgKOH/g	ISO 3771	9
Micro Carbon Residue, %w	ASTM D4530	1.37
Visc. Apparent, -20Deg C, mPa.s	ASTM D5293	1950
HTHS mPa.s	RAVENFIELD	3.83

### **HANDLING PRACTICES**

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet (available on the Texaco PSI Intranet Site).