

# OIL KNIGHT

## MANUAL TRANSMISSION FLUID

### TECHNICAL DATA SHEET

#### Oil Knight-Manual Transmission Fluid(Gear Oil)

- Oil Knight is one of the brands of JiaCyuan, 100% Made In Taiwan.
  - Key performance and protection requirements for **manual transmissions** include synchronizer compatibility, durability and shift quality. The transmission synchronizer must engage smoothly for proper shift performance. Additionally, anti-wear and load carrying components in the transmission fluid must ensure long synchronizer life and gear protection. Manual transmission fluid, like engine oil, is generally brown to amber in color.
  - Different numbers are provided, please refer to the manufacturer's recommendations to replace the transmission lubricant, due to the different design compression ratio of the fluid, it need to choose the correct corresponding product, which will achieve the best lubrication and protection performance.
- ※ We are "Lubricating manufacturer", which can configure products according to customer needs, the gear oil products match on API GL-4 / GL-5 or Limit-Slip differential (LSP) gear system used.

# OIL KNIGHT

## MANUAL TRANSMISSION FLUID

### TECHNICAL DATA SHEET

## Manual Transmission Fluid(Gear Oil)

### Product Description

Oil Knight MTF is the high-performance multi-vehicle manual transmission lubricant designed to meet the extreme demands of passenger cars equipped with manual transmission gearbox applications in certain General Motors and Chrysler vehicles with synchronizers. Formulated with a unique blend of premium base stocks and multifunctional additives, it's engineered to provide enhanced load carrying capacity, extreme pressure and pitting resistance, anti-foam performance and corrosion protection. It has enhanced thermal stability protection and excellent cold temperature qualities without sacrificing the synchronizer performance.

### Application

Oil Knight MTF suitable for Cars, buses, trucks, coaches and Commercial Vehicles operating, and in scenarios such as city distribution, city bus, and long-distance trucks and coaches. Also suitable for off-highway construction equipment requiring API GL-4/GL-5 levels of performance.

### Features

- ✓ Strong anti-wear ability and effectively provides lubrication performance between gear sets.
- ✓ Corrosion protection is added to help protect transmission system parts.
- ✓ Formulated for good low temperature flow to maintain shift characteristics.

### Product Test Data

Product Name		Method	MTF GL-4	MTF GL-5	LSD GL-5
Viscosity		SAE	80W-90	85W-90	75W-90
Specific density@15/4 °C		ASTM D4052	0.88	0.88	0.88
Kinematic viscosity, cSt	40°C	ASTM D445	163	165	112
	100°C	ASTM D445	17	17.5	14.8
Viscosity Index		ASTM D2270	112	115	136
Flash Point, °C		ASTM D92	216	218	218
Pour Point, °C		ASTM D97	-28	-24	-40
Package		-	18L/20L/200L		

# **OIL KNIGHT**

## **AUTOMATIC TRANSMISSION FLUID**

### **TECHNICAL DATA SHEET**

## **Oil Knight-Automatic Transmission Fluid**

- Oil Knight is one of the brands of JiaCyuan, 100% Made In Taiwan.
- Automatic transmission oil is divided into long-acting and synthetic, suitable for all modern vehicle automatic transmission system units, or pressure transmission and lubrication of other automatic transmission devices, special formula can be used in strict working in harsh conditions, it is recommended for all modern AT transmissions from various car manufacturers, and can be used in Japanese, American, German, Continental and Korean cars.
- Different numbers are provided, please refer to the manufacturer's recommendations to replace the transmission lubricant, due to the different design compression ratio of the fluid, it need to choose the correct corresponding product, which will achieve the best lubrication and protection performance.

※ We are "Lubricating manufacturer", which can configure products according to customer needs, the ATF products provided include Dexron and Mercon two certified standard car factory transmissions, For example: Dexron III, Type IV, Mercon, Mercon V, Mercon LV ,Mercon ULV...etc.

# OIL KNIGHT

## AUTOMATIC TRANSMISSION FLUID

### TECHNICAL DATA SHEET

## Automatic Transmission Fluid- Dexron-III

### Product Description

Automatic Transmission Fluid is a top-quality engineered to deliver long-lasting shifting performance and component durability in many conventional automatic transmissions, power steering and hydraulic systems of Passenger Cars and Commercial Vehicles.

### Application

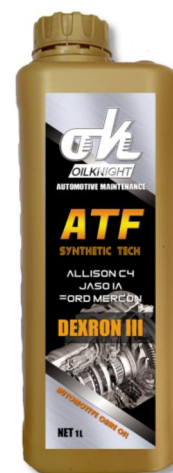
Oil Knight ATF suitable for Passenger Cars, buses, coaches and Commercial Vehicles operating, and in scenarios such as city distribution, city bus, and long-distance trucks and coaches. Also suitable for off-highway construction equipment requiring GM DEXRON®-III levels of performance.

### Features

- ✓ Protect and prevent the wear of the transmission combination, thereby prolonging the life of the power transmission system.
- ✓ This product is a synthetic automatic transmission lubricant that provides instant lubricating properties.
- ✓ Good thermal and oxidation stability under high temperature, providing viscosity stability to prolong oil life.

### Product Test Data

Product Name	Method	ATF-D3	
Color	-	Red	
Specific density@15/4 °C	ASTM D4052	0.852	
Kinematic viscosity, cSt	40°C	ASTM D445	38
	100°C	ASTM D445	7.5
Viscosity Index	ASTM D2270	170	
Flash Point, °C	ASTM D92	216	
Pour Point, °C	ASTM D97	-42	
Package	-	1L/200L	



# OIL KNIGHT

## AUTOMATIC TRANSMISSION FLUID

### TECHNICAL DATA SHEET

#### Automatic Transmission Fluid- SP III

### Product Description

Automatic Transmission Fluid is a top-quality engineered to deliver long-lasting shifting performance and component durability in many conventional automatic transmissions, power steering and hydraulic systems of Passenger Cars and Commercial Vehicles.

### Application

Hydraulic engineering vehicles for automatic vehicle gears, servo steering, fluid couplings and fluid power converters as well as passenger cars, commercial vehicles, buses and coaches, if MITSUBISHI/Dodge/Jeep/Hyundai/Kia-SP III Class is recommended.

### Features

- ✓ Good anti-oxidation can delay the speed of oil deterioration, and good anti-foaming performance can also make the engine run quickly.
- ✓ This product is a synthetic automatic transmission lubricant that provides instant lubricating performance.

### Product Test Data

Product Name	Method	ATF-SP3	
Color	-	Red	
Specific density@15/4 °C	ASTM D4052	0.85	
Kinematic viscosity, cSt	40°C	ASTM D445	40.2
	100°C	ASTM D445	7.18
Viscosity Index	ASTM D2270	145	
Flash Point, °C	ASTM D92	218	
Pour Point, °C	ASTM D97	-46	
Package	-	1L/200L	



# OIL KNIGHT

## **AUTOMATIC TRANSMISSION FLUID**

### **TECHNICAL DATA SHEET**

#### Automatic Transmission Fluid- Type IV

### Product Description

Automatic Transmission Fluid is a top-quality engineered to deliver long-lasting shifting performance and component durability in many conventional automatic transmissions, power steering and hydraulic systems of Passenger Cars and Commercial Vehicles.

### Application

Hydraulic engineering vehicles for automatic vehicle gears, servo steering, fluid couplings and fluid power converters as well as passenger cars, commercial vehicles, buses and coaches, if Toyota/Lexus/Mazda/GM Type-IV, Saab 3309-T-IV Class is recommended.

### Features

- ✓ Excellent protection and performance under high temperature and high pressure load.
- ✓ This product is a fully synthetic automatic transmission lubricant, which provides long-term lubricating performance.

### Product Test Data

Product Name	Method	ATF-IV	
Color	-	Red	
Specific density@15/4 °C	ASTM D4052	0.848	
Kinematic viscosity, cSt	40°C	ASTM D445	33
	100°C	ASTM D445	7.16
Viscosity Index	ASTM D2270	188	
Flash Point, °C	ASTM D92	226	
Pour Point, °C	ASTM D97	-54	
Package	-	1L/200L	



# OIL KNIGHT

## AUTOMATIC TRANSMISSION FLUID

### TECHNICAL DATA SHEET

## Automatic Transmission Fluid- Mercon V

### Product Description

Automatic Transmission Fluid is a top-quality engineered to deliver long-lasting shifting performance and component durability in many conventional automatic transmissions, power steering and hydraulic systems of Passenger Cars and Commercial Vehicles.

### Application

Hydraulic engineering vehicles for automatic vehicle gears, servo steering, fluid couplings and fluid power converters as well as passenger cars, commercial vehicles, buses and coaches, if Mercon V Class is recommended.

### Features

- ✓ It has excellent low temperature fluidity, high temperature oxidation stability and anti-wear properties, which can provide sensitive gear shifting.
- ✓ This product is a fully synthetic automatic transmission lubricant, which provides long-term lubricating performance

### Product Test Data

Product Name	Method	ATF-MV	
Color	-	Red	
Specific density@15/4 °C	ASTM D4052	0.84	
Kinematic viscosity, cSt	40°C	ASTM D445	39.5
	100°C	ASTM D445	7.4
Viscosity Index	ASTM D2270	158	
Flash Point, °C	ASTM D92	208	
Pour Point, °C	ASTM D97	-44	
Package	-	1L/200L	



# OIL KNIGHT

## AUTOMATIC TRANSMISSION FLUID

### TECHNICAL DATA SHEET

#### Automatic Transmission Fluid- T-WS/Mercon LV

#### Product Description

Automatic Transmission Fluid is a top-quality engineered to deliver long-lasting shifting performance and component durability in many conventional automatic transmissions, power steering and hydraulic systems of Passenger Cars and Commercial Vehicles.

#### Application

Hydraulic engineering vehicles for automatic vehicle gears, servo steering, fluid couplings and fluid power converters as well as passenger cars, commercial vehicles, buses and coaches, if Toyota WS, Hyundai SP-IV/ SPH-IV, GM VI, Mercon-LV Class is recommended.

#### Features

- ✓ It has excellent low temperature fluidity, high temperature oxidation stability and anti-wear properties, which can provide sensitive gear shifting.
- ✓ This product is a fully synthetic automatic transmission lubricant, which provides long-term lubricating performance.

#### Product Test Data

Product Name	Method	ATF-WS	
Color	-	Red	
Specific density@15/4 °C	ASTM D4052	0.84	
Kinematic viscosity, cSt	40°C	ASTM D445	39.7
	100°C	ASTM D445	7.5
Viscosity Index	ASTM D2270	160	
Flash Point, °C	ASTM D92	222	
Pour Point, °C	ASTM D97	-44	
Package	-	1L/200L	





# OIL KNIGHT

## AUTOMATIC TRANSMISSION FLUID

### TECHNICAL DATA SHEET

#### Automatic Transmission Fluid- Mercon ULV

### Product Description

Automatic Transmission Fluid is a top-quality engineered to deliver long-lasting shifting performance and component durability in many conventional automatic transmissions, power steering and hydraulic systems of Passenger Cars and Commercial Vehicles.

### Application

Oil Knight ULV ATF is the full-synthetic, ultra-low viscosity transmission fluid that has been uniquely engineered to meet and exceed the performance requirements of the latest General Motors and Ford high-speed automatic transmission with 9 and 10 speed gear configurations. Formulated with advanced additives to prevent the major causes of transmission breakdown, it's designed to help prevent leaks, reduce wear and tear, and maximize performance – all for much longer than conventional fluids.

### Features

- ✓ It has improved thermal stability for longer fluid life, better viscosity stability for consistent transmission operation, and specific frictional enhancements for smooth gear engagements.
- ✓ Provide better oil flow in both low and high temperatures, and anti-wear additives protect to help extended the life transmission.

### Product Test Data

Product Name	Method	ATF-ULV	
Color	-	Red	
Specific density@15/4 °C	ASTM D4052	0.84	
Kinematic viscosity, cSt	40°C	ASTM D445	17.3
	100°C	ASTM D445	4.3
Viscosity Index	ASTM D2270	167	
Flash Point, °C	ASTM D92	208	
Pour Point, °C	ASTM D97	-42	
Package	-	1L/200L	

