

AUT-0015-2104E

# TD Oil

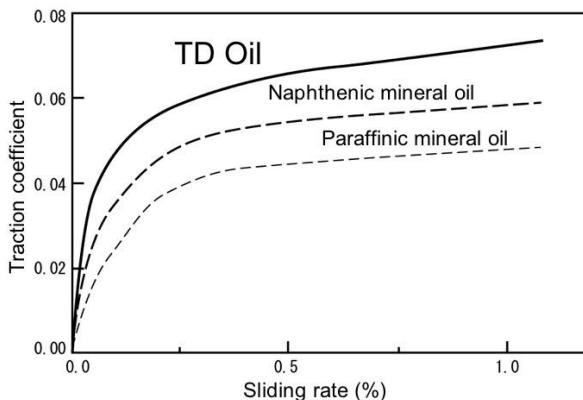
## Traction Drive Fluid

**TD Oil** is a high-grade synthetic lubricating oil specially designed for power transmission devices with traction drives. **TD Oil** is blended from a synthetic base oil with outstanding traction characteristics together with additives that ensure excellent oxidation stability, wear prevention, rust prevention and antifoaming property.

### ● SPECIAL FEATURES

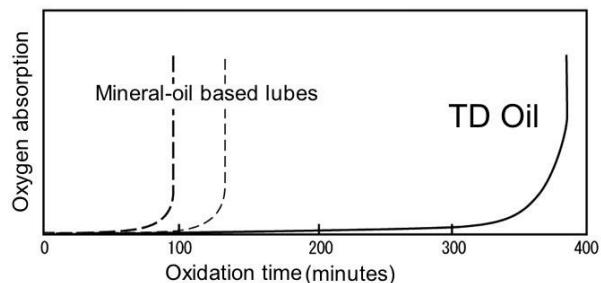
1. **TD Oil** is made with a base oil that has excellent traction characteristics, so it offers the following advantages when used in power transmission devices with traction drives:
  - (1) High power transmission rate.
  - (2) High-horsepower power transmission.
  - (3) Excellent starting characteristics without slipping.
  - (4) Reduced rolling fatigue and longer equipment life.

**Traction characteristics**

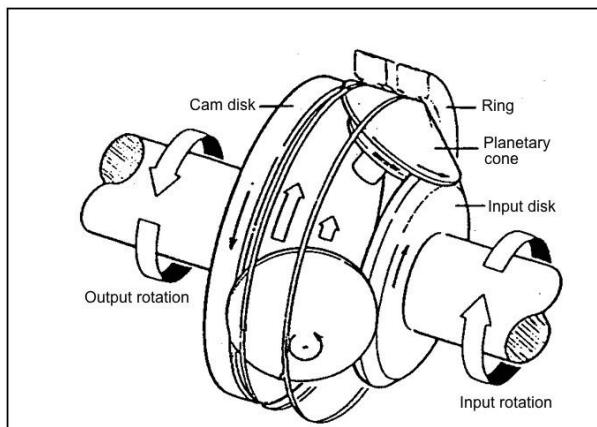


2. Because **TD Oil** is made from 100% synthetic oil, it has extremely good oxidation stability. As a result, its quality remains consistently excellent for a very long time.

**Oxidation stability (RPVOT)**



**Rolling friction CVT**



### ● APPLICATIONS

Traction-drive-type continuously variable transmissions in all types of machine tools, industrial machinery, etc.

### ● CONTAINERS

200-liter drums (#10 and #22 only), 20-liter pail cans.

## ● TYPICAL PROPERTIES OF TD OIL

	Grade	10	22	150
Color	(ASTM)	Blue	Light red	Orange, L2.5
Density	(15°C) g/cm <sup>3</sup>	0.840	0.861	0.862
Kinematic viscosity	(40°C) mm <sup>2</sup> /s	9.9	21.6	151
	(100°C) mm <sup>2</sup> /s	2.4	3.6	10.9
Flash point	(COC) °C	112	130	192
Pour point	°C	< -50	< -50	-32.5
Acid number	mgKOH/g	0.6	0.9	2.0
Copper strip corrosion (100°C, 3 h)		1	1	1
Rust prevention test (distilled water, 60°C, 24h)		Passed	Passed	Passed

Note: The typical properties may be changed without notice. (June 2010)



## Handling Precautions

▼ Follow these precautions when handling this product.

### TD OIL 10

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	
<b>Signal word:</b>	Danger
<b>Hazard Statement:</b>	May be fatal if swallowed and enters airways
<b>Precautionary Statements:</b> <b>Prevention</b>	<ul style="list-style-type: none"> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>Wash hands thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> </ul>
<b>Response</b>	<ul style="list-style-type: none"> <li>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>IF ON SKIN: Wash with plenty of soap and water.</li> <li>Do NOT induce vomiting.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>Containers that have been opened must be tightly sealed.</li> <li>Store locked up.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>

TD OIL 22

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Not applicable
<b>Precautionary Statements:</b>	<ul style="list-style-type: none"> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> </ul>
<b>Response</b>	<ul style="list-style-type: none"> <li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>• IF ON SKIN: Wash with plenty of soap and water.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>• Containers that have been opened must be tightly sealed.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>

## TD OIL 150

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	
<b>Signal word:</b>	Warning
<b>Hazard Statement:</b>	Causes serious eye irritation
<b>Precautionary Statements:</b> <b>Prevention</b>	<ul style="list-style-type: none"> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>Wash hands thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> </ul>
<b>Response</b>	<ul style="list-style-type: none"> <li>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>IF ON SKIN: Wash with plenty of soap and water.</li> <li>IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>Containers that have been opened must be tightly sealed.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>