



# BELL 1 DT-F

## Product Description:

**Bell 1 DT-F Diesel Engine Oil is designed to meet the lubrication requirements of most diesel engines. It provides outstanding protection for engines at high temperature.**

Bell 1 DT-F Engine Oil is a performance product which is optimized to provide maximum control of carbon deposit, minimum oil consumption and best neutralizing ability for not only new engine design, but also some diesel engine type designed in as early 80's. Its high alkaline reserve neutralizes harmful combustion by-products when engine burning relatively low quality diesel with higher sulfur content.

Bell 1 DT-F Engine Oil also perform equally well in many types of gasoline engine, giving mix fleet operators a high performance product for widest using coverage.

## Applications / Benefits:

- ▣ Better thermal stability and low pour point.
- ▣ Protects against ring and cylinder wear.
- ▣ Keeps piston clean.
- ▣ Neutralizes acids from high sulfur fuel.
- ▣ High performance both in diesel and gasoline engine.

## Typical Characteristics:

Test Description	Method	30	40	50	70
SAE Viscosity Grade	SAE J 300	30	40	50	70
Specific Gravity @ 15 °C	ASTM D 4052	0.8810	0.885	0.892	0.908
Flash Point, °C	ASTM D 92	230	235	248	250
Pour Point, °C	ASTM D 97	-15	-15	-12	-12
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	105.2	138.6	220.9	398.5
cSt @ 100°C	ASTM D 445	11.8	14.8	19.5	28.28
Viscosity Index	ASTM D 2270	100	108	100	98
TBN, mgKOH/g	ASTM D 2896	10.0	10.0	10.0	10.0
Color	ASTM D 1500	2.0	<3.0	<3.5	<3.0



Test Description	Method	10W-30	15W-40	20W-50
SAE Viscosity Grade	SAE J 300			
Specific Gravity @ 15 °C	ASTM D 4052	0.871	0.878	0.883
Flash Point, °C	ASTM D 92	210	222	242
Pour Point, °C	ASTM D 97	-30	-27	-21
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	72.9	115.1	175.1
cSt @ 100°C	ASTM D 445	11.2	15.0	18.8
Viscosity Index	ASTM D 2270	145	135	121
TBN, mgKOH/g	ASTM D 2896	10.0	10.0	10.0
Color	ASTM D 1500	2.0	2.0	2.0

**Suggested for the following uses:**

- API CF4/CF2/CF/SG
- ACEA E1
- ACEA E2
- MIL-L-2104C; Kolomna M-14D2
- MAN 270
- MB 228.0 / 228.1
- Allison C-3 / C-4
- Caterpillar TO-2
- MTU Type 1

Product Data Sheet