



# PowerFlow Engineering, Inc.

37120 Enterprise Drive  
Westland, Michigan 48186  
Phone: (734) 595-8400 • E-mail: info@power-flowengineer.com  
Fax: (734) 595-8924 • www.power-flowengineer.com

## FLUID DRIVE RECOMMENDED OIL

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The hydraulic fluid that is used in a fluid drive is petroleum-based oil called "turbine oil" - so called because of its use in steam turbine lube systems. This oil is relatively thin and free-running at normal operating temperatures. Its viscosity is 150 SUS at 100°F.

This type of oil is used because of its uniform quality, ready availability, compatibility with all materials of construction, non-corrosiveness and heat transmission capability.

### GENERAL CHARACTERISTICS OF OIL [BASED ON MOBIL DTE OIL]

Gravity, API	31.7
Specific Gravity	0.871
Pour Point	20° F, -7° C
Flash Point	395° F, 201° C
Viscosity: Saybolt Universal Seconds	150/165 SUS @ 100° F
Saybolt Universal Seconds	44 SUS @ 210° F
Viscosity: Centistokes	27.8/32.0 @ 40° C
Centistokes	5.3 @ 100° C
Viscosity Index [Min.]	100
ISO Viscosity Grade	32
Color ASTM [Max.]	1.5
Neutralization Number	0.20

**NOTE:** Other properties of Mobil DTE Light, not shown, should be conformed to when using other similar high grade mineral oils.

Synthetic fluids are currently not acceptable for use in Fluid Drives.