

# Mobil DTE® Oil Series (Named)

Circulation Oils

## Product Description

Mobil DTE Oil Series (Named) oils are high quality, rust and oxidation inhibited circulating lubricants designed for use in a wide variety of equipment employing lubricating oil on a recirculating basis. They are formulated from premium quality, chemically stable, high VI base stocks and combined with additives to provide resistance to thermal degradation over long periods of time. Additional benefits are gained from the use of defoamants to ensure that entrained air is released and from the use of metal deactivators to prevent corrosion and reduce the catalytic effect of system metals. Mobil DTE Oil Series (Named) oils exhibit excellent demulsibility which permits water and other contaminants to readily separate from the oil in the system reservoir. Since in many applications the oil is

continuously exposed to high temperatures, the Mobil DTE Oil Extra Heavy and Mobil DTE Oil BB contain a special compound designed to help prevent the formation of harmful sludge and varnish deposits. These latter grades also contain an antiwear additive for additional wear protection in critically loaded applications.

## Benefits

- Reduced system deposits
- Reduced oil thickening
- Longer intervals between oil changes and system clean-ups
- Superior water separation ability
- Many years of proven performance

Typical Characteristics	Mobil Oil DTE –	Light	Heavy Medium	Heavy	Extra Heavy	BB
Specific Gravity at 15°C		0.870	0.875	0.880	0.877	0.890
Flash Point, °C		202	204	210	227	227
Pour Point, °C (°F)		-18	-7 (20)	-7 (20)	-4 (25)	-4 (25)
Viscosity cSt at 40°C		30	61.2/66.0	90/100	135/150	198/220
Viscosity cSt at 100°C		5.3	8.6	11.4	13.1	18.3
Viscosity Index, min.		95	100	100	95	95
ISO Viscosity Grade		32	68	100	150	220
Color, ASTM, max.		2.0	2.5	2.5	4.5	5.0
Neutralization No. max.		-	0.30	0.30	1.2	1.2
Rust Test (A&B) (ASTM D 665-IP135)		-	Pass	Pass	Pass	Pass
Demulsibility (ASTM 1401) 3 ml max. at 54°C 1/2 hr.		-	Pass	Pass	-	-
Demulsibility (ASTM 1401) 3 ml max. at 82°C 1 hr.		-	-	-	Pass	Pass



## Applications

Mobil DTE Oil Series oils are intended primarily for lubrication of systems employing continuous recirculation where design factors and maintenance practices ensure low leakage losses. Specialized uses of circulation oils which include steam and hydro turbines, hydraulic systems, and equipment supplied by ring/collar/chain-oilers, splash oiling and bath systems. The field of use of the Mobil DTE Oil Series is broad; therefore, only a general guide to their application can be furnished in this data sheet. In addition to being recommended for marine steam turbines with their associated reduction gears and for moderate pressure hydraulic systems, Mobil DTE Oils are frequently used for lubrication of compressors, vacuum pumps, stern tubes, pumps, steering gears, and other equipment.

## Health and Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin-contact areas with soap and water. Material Safety Data Sheets are available upon request from your Mobil lubricants sales office, or via the Internet on [www.mobil.com](http://www.mobil.com).