36.63.6 *Two-anchor System*

For a two-anchor system of uniform pipe size, a formal stress analysis need not be made if Q is not greater than unity,
where

$Q = 6000 D_n Y/(L-U)^2$

D_n = nominal pipe size, mm or in.

Y = resultant of movements to be absorbed by pipe line, mm or in.

U = anchor distance (length of straight line joining anchors), mm or in.

L = developed length of axis pipe line, mm or in.

Lubricating-oil Systems

36.65 Lubricating-oil Systems

36.65.1 *General*

The lubricating systems are to be so arranged that they will function satisfactorily when the vessel is permanently inclined to an angle of 15 degrees athwartship and 5 degrees fore and aft. The lubricating-oil piping is to be entirely separated from other piping systems.

36.65.2 *Pressure and Gravity Systems*

Vessels using forced lubrication (pressure or gravity) for the main propulsion machinery are to be provided with an independent spare lubricating-oil pump. Where oil coolers are also fitted, two separate means are to be provided for circulating water through the coolers.

36.65.3 *Turbines*

For turbines see also 33.45.

36.65.4 *Internal-combustion Engine*

For internal-combustion engines see also 34.33.4 and 34.41.

36.65.5 *Electrical Machinery*

For electrical machinery see also 35.19.3, 35.29 and 35.45.

Cargo-oil Systems

36.67 Oil-carrier Classification

Vessels classed as **Oil Carrier** are to meet the following requirements for the cargo-handling equipment, including pumps, piping and venting.