MOORING WINCH BRAKE RENDER LOAD TEST CAPACITY

Vessel: _____ **Date:** _____

Mooring Winch	Brake No.	Drum	Jack-up Pressure			Date Tested	Remark
			Kg/cm^2	Bar	M/Tons		

Specification of Testing Winch Brake

A. Maker: _____

B: Max. Designed Brake Cap: _____

C. Winch Drum size: _____

D: Mooring Rope Diameter: _____

Fj = Jack-up force (ton)

Fbr = Brake force (ton)

Dro = Rope Diameter (mm)

Ddr = Drum Diameter (mm)

Jack Ram Effective Area (cm^2) = _____

L1 = Radius of drum and wire rope (mm) = _____

L2 = Dist between centre of jack foundation to centre of mooring drum (mm) = _____

ΔP = Pressure at jack (Bar)

Onboard Test Condition (No.1)
$Fj = \frac{Fbr\ (tons) \times L1(mm)}{L2(mm)} =$
$\Delta P = \frac{Fj}{\text{Jack ram effective area}} =$
$\Delta P_1 =$

Onboard Test Condition (No.2)
$Fj = \frac{Fbr\ (tons) \times L1(mm)}{L2(mm)} =$
$\Delta P = \frac{Fj}{\text{Jack ram effective area}} =$
$\Delta P_2 =$

Onboard Test Condition (No.3)
$Fj = \frac{Fbr\ (tons) \times L1(mm)}{L2(mm)} =$
$\Delta P = \frac{Fj}{\text{Jack ram effective area}} =$
$\Delta P_3 =$

Brake Test Carried Out By

Chief Officer _____ Chief Engineer _____ Master _____