

MAR13 – WINCH BRAKE TESTING CERTIFICATE

VESSEL :

MV SIROCCO

SHIP DESIGN MBL (SDMBL)(mt):

63

Enter data on shaded areas

Brake testing is required at least annually

Apply test procedure in accordance with MEG 4 / Manf. Instructions (See guidance tab)

Ensure RA / JSA in place for the work

No	Winch ID	Drum No	Drum Diameter		Mooring Line Diameter		Distances (mm)		Effective area of hydraulic jack (cm ²) (A)	Brake Rendering Capacity-(first layer)-60% SDMBL (mt) (F)	Jack force (JF) (Kgf)	Required jack hydraulic pressure		Confirmation of brake torque setting adjustment (one of 3 methods - brake shaft indicator, torque wrench setting, auto spring compression). Enter N/A as applicable		
			(D) (mm)	(d) (mm)	L1	L2	bar	MPa				Indicator - confirm adjustment verified	Torque wrench setting		Auto spring - confirm adjustment verified, spring compression distance recorded	
													Nm	lb ft		
1	FWD PORT OUTER SIDE	1	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
2	FWD PORT INNER SIDE	2	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
3	FWD STBD INNER SIDE	3	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
4	FWD STBD OUTER SIDE	4	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
5	FWD SPRING	5	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
6	AFT SPRING	6	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
7	AFT PORT OUTER SIDE	7	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
8	AFT PORT INNER SIDE	8	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
9	AFT STBD INNER SIDE	9	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
10	AFT STBD OUTER SIDE	10	430	28	229	1300	38.5	37.8	6659	170	17.0	YES				
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

Formulae:

Jack Force (JF) (kgf) = F x L1 x 1000 / L2

Required Jack Pressure : P = JF / A

L1 = Distance from the centre of drum shaft to the line pull (1st layer)

L2 = Distance from the centre of drum shaft to the line of jack force

A = Effective area of hydraulic jack

Chief Officer / Chief Engineer: *

(* delete as applicable)

[Redacted Signature]

Master:

MV SIROCCO
 [Redacted Signature]
 MASTER

Date/ Stamp: 09.12.2022