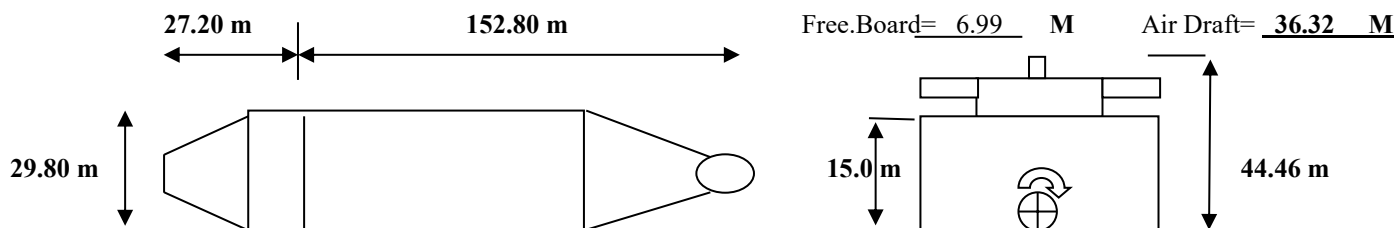
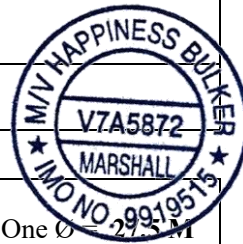


PILOT CARD

1/1

M/V HAPPINESS BULKER		Date: JULY 15, 2025		Port: MARSDEN POINT, NEW ZEALAND	
Call Sign: V7A5872	Year Build: 2023	Gross: 23,238	Net: 12,101	S. Displ: 34257	S. D'wt: 25637
Draft For'd: <u>7.88</u> M/ <u> </u> ft <u> </u> inch ; Draft Aft: <u>8.14</u> M/ <u> </u> ft <u> </u> inch					
Name of Master: CAPT. JERRY MAGNE N. MANGUNE			Signature: 		
SHIP'S PARTICULARS					
LOA: 179.97 M	Beam: 29.80 M	Anchor chain Port: 12.0Ø (330mtrs)	Anchor chain stbd : 12.0Ø (330mtrs)	One Ø <u>27.3</u> M	
Bulbous bow:	YES				



LOA: 179.97M RIGHT HANDED PROPELLER

Type of Engine: Makita-Mitsui-Man B&W 6s46ME-B85		MCO Normal Power: 4,770KW x 99.9 RPM	
Maneuvering Eng Order	RPM/Setting	Loaded	Ballast
Sea Speed	99.9	14.0	14.6
Full Ahead	74	10.7	11.7
Half Ahead	70	10.2	11.1
Slow Ahead	49	7.1	7.8
Dead Slow Ahead	38	5.5	6.0
Dead Slow Astern	38	Time Limit Astern : Limitless min.	
Slow Astern	49	Full Ahead to Full Astern: 60 sec	
Half Astern	70	Max. No. of Consecutive Starts: 15 Times	
Full Astern	74	Minimum RPM: 38 with abt 5.6 Knots	
Critical RPM:	56-67	Astern Power : 63 % of Ahead	

STEERING PARTICULARS

Type of Rudder: Mariner type x 1 Set	Maximum Angle: 35° Stbd.
Time hard over to hard over: 26 sec	Rudder angle for neutral effect: 0.3° Stbd.
Thruster Bow: nil (Kw / HP)	Thruster Stern: nil (Kw / HP)

CHECKED IF ABOARD AND READY & OTHER INFORMATION:

Anchors: YES	Whistle: YES	Steering Gear : YES	Number of Power units: 2 units
Radar S-band: YES	Radar X-band: YES	Arpa: YES	Speed/Doppler Log: YES
Echo-Sounder: YES	AIS: YES	ECDIS: YES	Gyro Repeater: YES
Rudder Indicators: YES	RPM indicators:	Gyro Compass:	Gyro Error: 0.1E
Wind Indicators: YES	Dual-Axis: Yes/No	Type of Electronic Position fixing System: GPS / DGPS,	

Name: _____ Signature of Pilot: _____