

## STEEL STEAMER OR MOTORSHIP.

Received at London Office

State if Report has been sent on the Freeboard of the Vessel

State if Report is sent on the Machinery of the Vessel

Date of completion of report 13<sup>th</sup> March 1943 Port of Sunderland No. 33639Survey held at Sunderland Date First Survey 22<sup>nd</sup> May 1942 Last Survey 8<sup>th</sup> March 1943

On the (State if Machinery fitted with or without Tonnage Openings) Single Screw A/S + M/S Trawler "Grainard"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

State Type of Erections

TONNAGE under Tonnage Deck

405.99

CLASS

100 A - Trawler

State if with freeboard as condition of Class

of space or spaces between Tonnage Dk. and Upper Dk.

Total Gross Tonnage

453.26

Register Tonnage

145.61

## REGISTERED DIMENSIONS.

FEET

Length

153.8

Breadth

27.65

Depth

14.1

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

FEET

L 150.0

Breadth (greatest moulded)

B 27.5

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 15.0

1st Longitudinal Number (L x D)

2nd Numeral L x (B + D)

Framing Depth "d," at middle of length. See Sec. 3 (1d)

Proportions—Depth to Length—Uppermost continuous deck to top of keel

10.0

Do. Long Bridge to top of keel

Draught Moulded

Built at Sunderland

Launched November 20<sup>th</sup> 1942 Yard No. 205

Builders John Crown &amp; Sons

Owners The Admiralty

Managers

(Where necessary to be entered in Reg. Book)

Residence

Port of Registry

If surveyed while building, afloat, or in dry dock

Yes

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	22	✓	Bracket Floors, Frame	✓	
" " from 1/2 length amidships to Collision bulkhead	22	✓	" " Reversed Frame	✓	
" " in peaks	22	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	✓	
Frame Amidships, Angle, <del>E or F</del>	5 3 .40	✓	" " top Angles	✓	
" " Extends up to	Upper Dk	✓	" " bottom Angles	✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	✓	
Depth of Framing Girder	5	✓	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [ or [	✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	✓	
" " Second 'tween Decks, Angle, [ or [	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem	✓	
" " Third	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	✓	
" " from 1/2 len. for'd. to 15% len. from Stem	5 3 .46	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
" " in Peaks, Angle or [	5 3 .34	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 5 1/4	✓	Breadth and thickness of Middle Line Strake	✓	
State if Frame Joggled	No	✓	Thickness of remainder in Holds	✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	As approved	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	As approved	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	As approved	✓	BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	5+3+32+40	✓
Floors, Depth and thickness at mid-line in Holds	18 .40	✓	" " in way of Bridge, Angle, [ or [	✓	
Height of Brackets at side above base line at toe of frame	✓		Spacing	22	✓
Middle Line Keelson, on Floors, Angles, <del>E or F</del>	5 3 .40	✓	Second Deck, amidships, Angle, <del>E or F</del>	5+3+35+40	✓
" " Through Plate or Inter-costal Plate	38	✓	Spacing	22	✓
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, [ or [	✓	
" " Flat Plate Keel Angles	3 3 .40	✓	Spacing	✓	
Side Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, [ or [	✓	
" " thickness of Intercoastal Plate	✓		Spacing	✓	
" " Angles	✓		Poop Deck, Angle, [ or [	✓	
DOUBLE BOTTOM.			Spacing	✓	
Solid Floors, thickness and spacing	✓		Bridge Deck, Angle, [ or [	✓	
" " Are Frame and Reversed Frame joggled?	✓		Spacing	✓	
Bracket Floors, breadth and thickness at middle line	✓		Forecastle Deck, Angle, <del>E or F</del>	5+3+32	✓
" " breadth and thickness at margin plate	✓		Spacing	22	✓



## PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows .....	One	✓	Stringer Plate, breadth and thickness in way of Bridge .....	✓	
" " in 'tween Decks, Size and Spacing .....	2 7/8 dia 44	✓	Thickness of Plating abreast Deck openings in way of Wells .....	✓	
" " " " " "	✓		Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
" " in Holds " " " "	2 7/8 dia 44	✓	Thickness of Plating within line of openings...	.26	✓
" " " " " "	✓		If Sheathed, material and thickness.....	✓	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing .....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of .....	✓		If Plated, state thickness .....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Well	69 .32-.30	✓	If Plated, state thickness.....	✓	
" " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells .....	3 3 .38	✓	Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating abreast Deck openings } in way of Wells .....	✓		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings } in way of Bridge.....	.32 .38	✓	Bridge Deck.		
Thickness of Plating within line of openings...	.28	✓	Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness.....	2 1/2" PP over accouder ✓		Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells	.26	✓	Stringer Plate, breadth and thickness.....	.26	✓
			Plating, Sheathing, material and thickness...	.26	✓

## SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jagged?	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel.....	39	.46	.42	.46	✓	double	3/4	3 2/3	2	3/4	2 7/8	strapped	
„ Dblg. (if any)	✓												
Bottom Plating, No. of Strakes ..... A B ✓	A ✓	.40	.40	.36	.40	double	3/4	3 1/7	2	3/4	2 7/8	lapped	
Bilge Plating, No. of Strakes ..... C ✓	C ✓	.40	.40	.36	✓	„	3/4	3 1/7	2	3/4	2 7/8	„	
Side Plating, No. of Strakes ..... D ✓	D ✓	.40	.40	.36	✓	„	3/4	3 1/7	2	3/4	2 7/8	„	
Upper Deck, Sheer- strake in Wells.....		.50	.43	.50	.36	„	3/4	3 1/7	2	3/4	2 7/8	„	
Upper Deck, Sheer- strake in Bridge ...		✓											
Strake below Sheer- strake in Wells.....		✓											
Strake below Sheer- strake in Bridge ...		✓											
Poop Side Plating.....		✓											
Bridge Side Plating.....		✓											
Forecastle Side Plating			.28			single	3/4	3	1	3/4	2 7/8	lapped	

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	Ten
Extending to Upper Deck (Sec. 3 c)	Seven
„ Deck next below	Three
As per Rule	Four

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		Flat Plate	✓	
STEM		Roiled 7+1 1/2"	✓	
STERN FRAME	Propeller Post	Cust Steel As approved	✓	Stewart
	Rudder	✓		Kings
Speed of Vessel		12 1/4 knots	✓	
RUDDER—Type		Cust Steel Balanced	✓	Stewart
		hot stacked		Kings
" A × D		11 1/2" dia	✓	
" Diam. of head		9 1/2 × 11 1/2	✓	
" Mainpiece at top pintle		6" × 6"	✓	
" " heel		Plate riveted to		
" how constructed		needed to casting	✓	
" double or single plate		double	✓	
" coupling, vertical or		✓		
" horizontal		✓		

# STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth Process  
Dorman Long, Consett, Appleby Frodingham, Colvilles.

Has the Steel been tested as required by the Rules? Yes ✓







GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Sister vessel Saled Rpt 33-76 "Jella"

Forging & welding certificates are enclosed herewith.  
The approved plans are in the Wokingham office.

PARTICULARS OF ELECTRIC WELDING (if employed) Electrodes used: Murex.

Parts welded: - Rudder side plates, lower deck to shell, upper deck to shell in fore, shell at sternpost.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Steam Trawler for Government Service

E. S. D.

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower

2nd "

3rd "

Admiralty Supply

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 163.96 (Circ. 1703)

No. and Material of Decks 1 Dk (Ske)

Parts of Bottom of Vessel coated with cement or approved composition. F.W. Tank coated with "Bakuro" enamel. Reserve Feed Tank cement washed. Remainder coated with red lead.

Particulars of composition (if fitted) and of approval ☒

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<input checked="" type="checkbox"/>		Fore peak tank, not tanks see pumping plan	9.0	16.4
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>		After peak tank,	9.18	10.9
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>		Deep tank, <del>at</del> fore. F.W.	5.5	13.0
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>		Deep tank, forward, Reserve feed	9.18	28.0
Double bottom, forward,	<input checked="" type="checkbox"/>		Other tanks, if fitted,		
Total length (if continuous) and Capacity.	<input checked="" type="checkbox"/>		(If necessary furnish further information by sketch.)		

6008  
Order for Special Survey No.

Date 22.10.41

Dates of Surveys held while building

1942. May 23. June 4. 12. 15. 17. 23. 24. 25. 26. July 6. 8. 13. 15. 17. 21. 22. 24. 28. 31. Aug. 7. 11. 13. 20. Sep. 1. 2. 4. 8. 10. 11. 15. 18. 22. 25. 28. 30. Oct. 2. 7. 9. 14. 15. 16. 19. 20. 23. 26. 28. 30. Nov. 2. 5. 9. 10. 12. 14. 17. 18. 19. 20. Dec. 2. 4. 7. 18. 23. 28. 30. 1943. Jan. 13. 14. 19. 20. 22. 27. 28. Feb. 1. 8. 10. 11. 15. 17. 18. 19. 22. 23. 24. 26. 27. March. 1. 2. 3. 8

Total No. of Visits 88