

TRAWLER.
MOTORSHIP.

WRECK
SECTION

No. 990

State if Report is sent on the Machinery of the Vessel.....YES

Date of completion of report 18th February 1943 Port of Bull No. 51932

Survey held at Beverly Hills Date First Survey 1st June, 1942 Last Survey 24 February 1943

On the (Steel Machinery fitted Aft and Single Tank on Deck) STEEL SINGLE SCREW A/S TRAWLER "GRENADIER"

State Type (Full Scantling, Complete Superstructure with or without Portage Openings) **FULL SCANTLING** State Type of Erections **WHALEBACK**

TONNAGE under }
Tonnage Deck ... } 498.62 CLASS **X** 100A1 TRAWLER State if with freeboard }
as condition of Class } NO Built at Beverly

Do. of space or spaces between Tonnage Dk. and Upper Dk.	22.5 ✓	Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)	175.0	Launched 26th September 1942.	Yard No. 703
Breadth (greatest moulded)	32.0				

Total 498.62 Depth, at middle of length from top of keel to top 15.2

Gross Tonnage 579.79 deck. See Sec. 3 (1c) Owners The American

Register Tonnage 181.53

1st Longitudinal Number ($L \times D$) 2000

2nd Numeral $L \times (B + D)$ 8252

Managers ✓
(Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS. Framing Depth "d," at middle of length. See } Residence LONDON
 FEET Sec. 3 (1d)..... }

th **178.15** *Reperations Depth to Length—Uppermost continuous deck to top of keel* } *Port of Registry*

dth 30-05 Do. Long Bridge to }
ton of keel } If surveyed while building, afloat, or in dry dock

15" 20 Draught Moulded Building afloat

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.....	21 ✓		Bracket Floors, Frame		
" " from $\frac{3}{8}$ length amidships to Collision bulkhead.....	17 ✓		" " Reversed Frame.....		
" " in peaks.....	17 ✓		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, \square or \square	5 3 38 ✓		" " top Angles		
" " Extends up to.....	DECK ✓		" " bottom Angles.....		
Reversed Frame Amidships, Angle	3 3 38 ✓		Side Girders, No. each side and thickness.....		
" " Extends up to.....	ACROSS FLOORS ✓		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder.....	5 1/2 ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, \square or \square			" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area		
" " Second 'tween Decks, Angle, \square or \square			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....		
" " Third			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area		
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " in Peaks, Angle or \square	5 3 38 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 - 5/8 ✓		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?	YES ✓		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?.....		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	YES ✓		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Well, Angle, \square or \square	6 3 38 ✓	
Floors, Depth and thickness at mid-line in Holds.....	19 x 40 ✓		" " in way of Bridge Angle, \square or \square	- - -	
Height of Brackets at side above base line at toe of frame.....	NONE ✓		Spacing	EVERY FRAME ✓	
Middle Line Keelson, on Floors, Angles, \square or \square CHANNEL.....	15 x 11 x 36 1/2 LBS ✓		2. Q		
" " Through Plate or Inter-costal Plate			Second Deck, amidships, Angle, \square or \square	6 3 38 ✓	
" " Foundation Plate on Floors			" " Spacing	7 3 40 1/2 Q ✓	
" " Flat Plate Keel Angles			" " Third Deck, amidships, Angle, \square or \square	5 x 3 x 3/4 FAS 61-76 89-9 ✓	
Side Keelsons, No. each side.....	ONE 1 ✓		" " Spacing	EVERY FRAME EXCEPT 89-98 ALTERNATE FRAMES ✓	
" " thickness of Inter-costal Plate.....			" " Fourth Deck, amidships, Angle, \square or \square	5 3 30 ✓	
" " Angles			" " Spacing	EVERY FRAME ✓	
DOUBLE BOTTOM.			Poop Deck, Angle, \square or \square		
Solid Floors, thickness and spacing			" " Spacing		
" " Are Frame and Reversed Frame joggled?			Bridge Deck, Angle, \square or \square		
Bracket Floors, breadth and thickness at middle line			" " Spacing		
" " breadth and thickness at margin plate.....			WHALEBACK Forecastle Deck, Angle, \square or \square	5 3 40 ✓	
			" " Spacing	30 ✓	

(MADE IN ENGLAND.)
To Bel - 16.5.46

004684-004692-0297 1/2

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	TWO		Stringer Plate, breadth and thickness in way of Bridge	.38	
FORWARD			Thickness of Plating abreast Deck openings in way of Wells	.38 - .31	
in 'tween Decks, Size and Spacing	3" DIA. AS APPROVED		Thickness of Plating abreast Deck openings in way of Bridge		
CROSS BUNKER			Thickness of Plating within line of openings	.31	
in Hold	3" DIA. AS APPROVED		IN WAY OF ACCOMMODATION		
STORE ROOM FORWARD	3" DIA.		Sheathed, material and thickness	2 1/2" DOUGLAS FIR	
Centre Line Bulkhead, IN CROSS BUNKER			LOWER Third Deck, FORWARD, PLATED AT WHARF SHIPS		
Stiffeners and Spacing	FRS 40-55 7 x 3 x 1/40 B.Q. SPACED 42"		Stringer Plate, breadth and thickness	.26	
Plating, thickness of	.26		If Plated, state thickness	.26	
STRINGERS AND DECKS.			LOWER Fourth Deck, AFT.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness	.30	
Stringer Plate, breadth and thickness in Well	172 x 34 - .31		If Plated, state thickness	.30	
GALLOWE			STORE FLAT FORWARD		
in way of Bridge	.38		Stringer Plate, breadth and thickness	15 x .30	
Angle in Wells	3 1/2 3 1/4		Plating, Sheathing, material and thickness		
Thickness of Plating abreast Deck openings in way of Wells			Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge			Stringer Plate, breadth and thickness		
Thickness of Plating within line of openings	.36 - .31		Plating, Sheathing, material and thickness		
IN WAY OF ACCOMMODATION			WHALEBACK Forecastle Deck.		
Sheathed, material and thickness	2 1/2" DOUGLAS FIR		Stringer Plate, breadth and thickness	.30	
R.Q. Second Deck.			Plating, Sheathing, material and thickness	.30	
Stringer Plate, breadth and thickness in Wells	.34 - .31				

SHELL PLATING.

SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		BUTTS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	STRAPPED OR LAPPED.
GARBOARD	Inches.	Inches.	Inches.	Inches.			Diam.	Spacing cr. to cr.	
Flat Plate Keel	36	.52	.46	.46		DOUBLE	3/4	3 ROWS FOR 1/2 L	3/4 2 5/8 STRAPPED
Dble. (if any)	60	.44	.40	.40		"	"	2 ROWS	" 4 LAPPED
Bottom Plating, No. of Strakes	56	.44	.40	.40		"	"	"	"
Bilge Plating, No. of Strakes	56	.44	.40	.40		"	"	"	"
Side Plating, No. of Strakes	63	.44	.40	.40		"	"	3 ROWS FOR 1/2 L	"
Upper Deck, Sheer-strake in Wells	57	.44	.40	.40		"	"	TO 2 ROWS	"
Upper Deck, Sheer-strake in Bridge	48	.625	.50	.50	54 ABREAST GALLOWE	"	"	"	"
Strake below Sheer-strake in Wells						"	7/8	3 1/2	7/8 3 1/8 STRAPPED
Strake below Sheer-strake in Bridge									
Poop Side Plating									
Bridge Side Plating									
WHALEBACK Forecastle Side Plating			.30						

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel	8
Extending to Upper Deck (Sec. 3 c)	4
Deck next below	4
As per Rule	3

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	FLAT BAR	ROLLED	8 x 2	APPLEBY-FRANK
STEM	"	"	8 x 2	"
STERN FRAME	Propeller Post	FORGING	8 x 4	FORSTER
	Rudder	"	7 x 4 1/2	"
Speed of Vessel			12-14 KNOTS	
RUDDER—Type	BAND	FORGING		FORSTER
A x D			175 x 40	
Diam. of head			7 1/2	
Mainpiece at top pintle			7 3/4	
heel			5 3/4	
how constructed			3 ARMS SHAUNK & KEYS	
double or single plate coupling, vertical or horizontal			.34	
			HORIZONTAL	

STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.			
		Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.
* .44 FR 55									
MIDSHIP BULKH'D, Upper 'tween decks	.30	7 x 3 x 3/4 B.Q.	30"						
Second	FR 79								
Third	" 60								
Fourth	" 68								
Fifth	" 83								
Hold	" 87								
COLLISION (in Hold)	" 100								
AFTER PEAK	" 46								

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	OPEN HEARTH.
	PLATES :- APPLEBY-FRANKINGHAM, DORMAN, LONG AND CONSETT	
	SECTIONS :-	" " SKINNINGROVE.
	Has the Steel been tested as required by the Rules?	YES.

Rule 50

EQUIPMENT No. <input checked="" type="checkbox"/>										LETTER <input checked="" type="checkbox"/>										ANCHORS. <input checked="" type="checkbox"/>									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.			Description of Anchor.	Makers.	Where and when tested, and Superintendent.													
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.																	
42512	1st Bower	13	1	14	14	1	14	15	1	2	7	26	BYER'S IMPROVED (C.S. HEAD)	✓	SUNDERLAND 16 MAR 22 R.T. VOGAN														
43027	2nd "	13	0	14	14	1	14	14	17	0	21	25 on applied plan	✓	" 25 MAR 23 "															
	3rd "													✓															
	Collective weight KEOPS	26	2	0									(ADMIRALTY PLAN 3304/104) (FORGED STEEL STALK) LENNOR	✓	CARDIFF 6/3/43														
1950A	Stream	4	0	14	3	5	6	10	0	0	0	4 1/2 EX STOCK	✓	A. BUTLER															

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire.	Length and size per Table 53.	
	Fathoms.	Ins.	Tons.	Break-ing.	Supplied.	Per Rule.	Fathoms.	Ins.	Fathoms.	Ins.					Fathoms.	Ins.		Tons.	Fathoms.
2131	181 5/8	1 7/8	31	46 1/2	162-2-5	✓			195	19 1/8	STUD N. H. HINGLEY & SONS	NETHERTON 11/12/42 T. ADAMS		POWLINE	30	6	MANILLA FITTED WITH 35F 3 3" SWIR. EACH END.		
2144	15 3/8	"	"	"	14-1-7	✓					"	"	"	HAWSERS & WARPS	150	2 1/2	ADMIRALTY PATTERN		
														"	120	2 1/2	MOORING ROPE		
														"	120	1 1/2	ALL SUPPLIED BY ADMIRALTY		
														"	120	4	COIR		

STEAM
Steering Gear, Type (Power or hand) HYDRAULIC BY DONKIN & CO ✓ Alternative Means of Steering HAND ✓

Steering Chains (Size and Test) NONE ✓ Windlass STEAM BY GEMMELL & FROW ✓ Boats 2-16-0 DINGHYS

Ceiling in Holds, thickness and material NONE ✓ Cargo Battens, thickness, material and spacing NONE ✓

Cargo Hatchways.—(Upper Deck) NONE ✓ Thickness of Hatches ✓

Size of Hatchways No. 1 (Fwd.) ✓ No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters ✓

Builder's Signature [Signature] 16/2/43.

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel No ✓

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No ✓ The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

The vessel has been built in accordance with the approved plans and specification. ✓

The materials and workmanship are good. ✓

The after peak and side tanks aft, fresh water and reserve feed tanks tested in accordance with the Rules. ✓

13 bottom flooded pump frames 100 to 81, 79 to 68 and 55 to 8. ✓

and all outside plating clear of tanks water tested by a hose. ✓

The decks, casings, skylights, escape hatches, W.T. doors, windlasses, steering gear and arrangements tested. ✓

All found satisfactory. ✓

The amount of Entry Fee..... £ : : 10 MAR 1943 ✓ Fees applied for, 15 MAR 19

FOR CLASSIFICATION AND SUPERVISION OF Special Survey Fee..... £ 178-0-0 Received by me, 19

Travelling Expenses, if any £ : : _____

I am of opinion the Vessel should be Classed 100A1 STEAM TRAWLER "FOR GOVERNMENT SERVICE"

State whether the Vessel has been built under Special Survey YES

Signature [Signature] Surveyor to Lloyd's Register of Shipping.

Communications to be sent to HULL Date of issue 23/3/43

Committee's Minute FRI. 19 MAR 1943

Character assigned +100A1

Steam Trawler

In Government Service

Lloyd's Reg. P. No. 812

2 fees Make X

Lloyd's Register Foundation

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.)

The approved plans are being retained for reference in dealing with sister vessels, copies of them are in the Working office.

An Echo sounding device was been fitted. Sounding reports are forwarded herewith.

PARTICULARS OF ELECTRIC WELDING (if employed)

Lower deck plating electrically welded at sides of vessel and at ends.

Approved electrician employed on this work.

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

100A1 STEAM TRAWLER "FOR GOVERNMENT SERVICE"

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

1st Bower 8-1-21 : G.G.Y. : 3907 : 10/1/41.
2nd " 8-0-0 : A.E.G. : 7656 : 3/12/42.
3rd " "

34' see bellie
30.3.43

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 92.25 ft., R.Q.D. 92.25 ft., Bridge 36.16 ft., Forecastle 36.16 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 Over-all Length
(Circ. 1611) (Circ. 1703)

No. and Material of Decks ONE DECK (STL)

Parts of Bottom of Vessel coated with cement or approved composition IN BUNKERS, ETC SPACES, FYA PEAKS & CHAIN LOCKER AND BITUMINOUS SOLUTION ABOVE CEMENT. BITUMINOUS ENAMEL IN F.W. TANK

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,	11.66	7
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3315.

Date 1/4/42-

Dates of Surveys held while building

1942. June 1, 2, 4, 8, 9, 10, 12, 15, 26, 30, July 3, 10, 16, 24, 27, 30, Aug. 20, Sept. 1, 3, 11, 16, 18, 22, 23, 24, 26, Oct. 2, 1944 Dec. 14, 1943. Jan. 15, 22, 26, 27, Feb. 1, 4, 5, 9,

Total No. of Visits 38

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