

SECTION

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

State if Report is sent on the Machinery of the Vessel..... **Yes.**

Date of completion of report

24TH FEBRUARY 1940.

Port of

Hull

No

50591

Survey held at SELBY AND HULL.

Date First Survey _____

31. 3. 39.

Last Survey **27TH FEBRUARY. 40.** 1940

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

SINGLE SCREW TUG

"EMPIRE HENCHMAN"

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

FULL SCANTLING.

State Type of Erections *FLUSH DECK*

TONNAGE under
Tonnage Deck...

224-60

CLASS ~~1~~ 100A.1.
* For Towing Services

State if with freeboard)
as condition of Class)

No

Built at SELBY

Launched *31st AUGUST 1939* Yard No. *1206*

Builders COCHRANE & SONS. LTD SELBY.

Owners *MINISTRY OF SHIPPING.*

Managers ✓

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

Residence *LONDON.*

Port of Registry *LONDON.*

If surveyed while building, afloat, or in dry dock

WHILE BUILDING ON THE STOCKS • A FLORT.

FRAMES, DOUBLE BOTTOM AND BEAMS.

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PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.
in 'tween Decks, Size and Spacing.....	2 1/2	DIA	PILLARS IN CONJUNCTION WITH FORE AND AFT RUNNER FITTED IN FORWARD AND AFT CABINS.		Stringer Plate, breadth and thickness in way of Bridge		
" " " " " "					Thickness of Plating abreast Deck openings in way of Wells		
in Holds " "					Thickness of Plating abreast Deck openings in way of Bridge		
" " " " " "					Thickness of Plating within line of openings...		
Centre Line Bulkhead.					If Sheathed, material and thickness		
Stiffeners and Spacing.....					Third Deck.		
Plating, thickness of					Stringer Plate, breadth and thickness.....		
STRINGERS AND DECKS.					If Plated, state thickness.....		
Uppermost Continuous Deck.					Fourth Deck.		
Stringer Plate, breadth and thickness in Wells	60	x	.35	✓	Stringer Plate, breadth and thickness.....		
" " " " " in way of Bridge	✓				If Plated, state thickness		
" Angle in Wells	3	3	.35	✓	Poop Deck.		
Thickness of Plating abreast Deck openings in way of Wells31		✓		Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings in way of Bridge	✓				Plating, Sheathing, material and thickness		
Thickness of Plating within line of openings...	.31		✓		Bridge Deck.		
If Sheathed, material and thickness	5	x	2 1/2	✓	Stringer Plate, breadth and thickness.....		
Second Deck.					Plating, Sheathing, material and thickness		
Stringer Plate, breadth and thickness in Wells...	✓				Forecastle Deck.		
					Stringer Plate, breadth and thickness.....		
					Plating, Sheathing, material and thickness		

SHELL PLATING.

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	RIVETING.					
	AMIDSHIPS.		FORWARD.	AFT.		EDGES.		BUTTS.			
	Breadth.	Thickness.	Thickness.	Thickness.		State if jogged?	RIVETS.	No. of Rows of Rivets.	RIVETS.	STRAPPED OR LAPPED.	
	Inches.	Inches.	Inches.	Inches.		SINGLE OR DOUBLE.	Diam. Spacing cr. to cr.	Inches.	Inches.		
KEEL	37	.375	.375	.375	✓	2 Rows	3/4	2 Rows	3/4	2 5/8	STRAPS
" (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BOTTOM PLATING, No. of Strakes	58	.375	.375	.32	✓	2	"	2	"	"	LAPS
BILGE PLATING, No. of Strakes	58	.375	.50	.40	✓	2	"	2	"	"	"
SIDE PLATING, No. of Strakes	58 1/2	.50	.50	.40	✓	2	"	2	"	"	"
UPPER DECK, Sheer-strake in Wells.....	42	.50	.50	.35	✓	2	"	2	"	"	STRAPS
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	✓										

WATERTIGHT BULKHEADS.

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

STIFFENERS.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
" " Second "					
" " Third "					
" " Holds	Ne 49	34-26	5-3	44	30
COLLISION " (in Hold)	62	34-30	6-3	45	24
AFTER PEAK "	6	43	3 1/2	3-32	11

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	ROLLED	7 1/2 x 5/8	CONSETT IRON CO.	✓
STEM	"	7 1/2 x 5/8	"	✓
STERN FRAME	Propeller Post	FORGED 6 x 3	T.S. FORSTER & SONS	✓
	Rudder	SCRAP IRON 6 x 3	SUNDERLAND.	✓
Speed of Vessel	12 KNOTS.			
RUDDER—Type	ORDINARY DOUBLE PLATE RUDDER.			
" A x D	48-15 1/2 x 2-5/4	122-3		
" Diam. of head	FORGED 6 1/2 DIA.		T.S. FORSTER & SONS	✓
" Mainpiece at top pintle	SCRAP IRON	7-4 3/4	SUNDERLAND.	✓
" " heel ...	"	3 1/2 x 4 3/4		✓
" how constructed	FORGED FRAME AND DOUBLE PLATE			✓
" double or single plate coupling, vertical or horizontal.....		.32		✓

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

DORMAN LONG & CO, SOUTH DURHAM STEEL & IRON CO, ARNLEY FROTHINGHAM STEEL CO, CONSETT IRON CO, SWINDINGROVE IRON CO, CARGO FLEET IRON CO.

Has the Steel been tested as required by the Rules?

YES. ✓

OPEN HEARTH PROCESS. ✓

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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.)

PARTICULARS OF ELECTRIC WELDING (if employed)

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

100 A.I. "FOR TONING SERVICES"
BK 7 1/2" Filled for oil fuel 2,40 F.P. above 150°F

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	No of Anchor	Weight.	Surveyor	No of Certificate	Date of Test.
	1st Bower	38946	J. D.	1968 SUNDERS	30-5-39.
	2nd "	38970	J. D.	1972 "	30-5-39.
	3rd "	✓			

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 28'-4" Over-all Length 112'-3"
No. and Material of Decks 1 DECK STEEL.
Parts of Bottom of Vessel coated with cement or approved composition CEMENT.
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,	11-25	8.5
Double bottom, under Engines and Boilers,			After peak tank,	10-75	26.0
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. 3149

Date

3rd APRIL 1939

Dates of Surveys held while building

1939. MAR. 31, APR. 5, 17, 28, MAY 3, 16, 22, 26, JUN. 6, 9, 13, 16, 22, 28, JUL. 4, 7, 14, 25, 28,
AUG. 2, 17, 22, 25, 29, SEP. 4, 8, 14, 22, 29, 29, OCT. 6, 11, 16, 20, 24, 27, 31, NOV. 7, 8, 13,
16, 18, 20, 21, 21, 25, 27, DEC. 2, 2, 19, 22,
1940. JAN. 1, 8, 12, 15, FEB. 5, 19, 22, 26, 27, 29

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Total No. of Years 62.