

## STEEL STEAMER OR MOTORSHIP.

Received at London Office

D/S 668 JAN 1946

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*

FRENULINA-X

Date of completion of report *29th November 1945* Port of *Glasgow* No. *70230*Survey held at *Glasgow* Date First Survey *27th March 1945* Last Survey *27th November 1945*On the (State if Machinery fitted with or without Tonnage Openings) *Steel Single Screw Oil Tanker "EMPIRE GROSVENDOR" (Machinery aft.)*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Special type (Restricted Draft)* State Type of Erections *Raised Quarter deck, Raised upper DK level, hung top, trunk & file*TONNAGE under Tonnage Deck *581.43*Do. of space or spaces between Tonnage Dk. and Upper Dk. *-*Total *581.43*Gross Tonnage *890.45*Register Tonnage *379.43*

## REGISTERED DIMENSIONS.

FEET

Length *193.0*Breadth *32.0*Depth *14.55*

## CLASS

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *190.0*Breadth (greatest moulded) *32.0*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *14.75*1st Longitudinal Number (L x D) *2803*2nd Numeral L x (B + D) *8883*Framing Depth "d," at middle of length. See Sec. 3 (1d) *-*Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.88*Do. Long Bridge to top of keel *13'-0 5/8"*Draught Moulded *13'-0 5/8"*Built at *Warrithouse Glasgow*Launched *14th August 1945* Yard No. *1302 P*Builders *A. J. Inglis Ltd*Owners *The Ministry of War Transport*Managers *The Anglo Saxon Petroleum Co Ltd*  
(Where necessary to be entered in Reg. Book)Residence *-*Port of Registry *Glasgow*If surveyed while building, afloat, or in dry dock  
*Building and afloat*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

Longitudinal frames as per page 5

INCHES IN SHIP.

Any Departure from Approved Plans to be Noted.

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Any Departure from Approved Plans to be Noted.

## FRAMES, Spacing amidships

*22 1/2*

" " from 1/2 length amidships to Collision bulkhead

*22 1/2*

" " in peaks

*22 1/2*

## SIDE FRAMING.

Frame Amidships, Angle, *E or F**7 3/33*

" " Extends up to

*Upper Deck*

Reversed Frame Amidships, Angle

" " Extends up to

Depth of Framing Girder

Frames in Uppermost Continuous 'tween Decks, Angle, *E or F*Second 'tween Decks, Angle, *E or F*

Third

" from 1/2 len. for'd. to 15% len. from Stem

*7 3/33 BA*" in Peaks, Angle *E or F**5 3/35*

Diameter and Spacing of Rivets through Frame and Shell Plating amidships

*3/4 @ 4 1/2*

State if Frame Joggled

*Yes*

Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?

*As app'd*

Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?

*As app'd*

## SINGLE BOTTOM. in Engine Space

Floors, Depth and thickness at mid-line in Holds

*Floors &*

Height of Brackets at side above base line at toe of frame

*Girders etc*Middle Line Keelson, on Floors, Angles, *E or F**in Engine*

" " Through Plate or Inter-costal Plate

*space*

" " Foundation Plate on Floors

*as per*

" " Flat Plate Keel Angles

*approved*

Side Keelsons, No. each side

*plans*

" " thickness of Inter-costal Plate

" " Angles

## DOUBLE BOTTOM. in Boiler Space

Solid Floors, thickness and spacing

*38 Ev. p.*

" " Are Frame and Reversed Frame joggled?

*Frame only*

Bracket Floors, breadth and thickness at middle line

" " breadth and thickness at margin plate

## Bracket Floors, Frame

Reversed Frame

Vertical Struts

Centre Girder, depth and thickness amidships

*30 x .48*" " top Angles *Double**3 3/4 .44*" " bottom Angles *Double**3 1/2 3 1/2 .38*

Side Girders, No. each side and thickness

*One .38*

Margin Plate depth (excl. of flange) and thickness

" " Vertical Angle to Tank side

" " Bracket abaft 1/2 len. from stem

" " Vertical Angle to Tank side

" " Bracket from forward 1/2 len. from stem to Panting Area

" " Gussets, spacing and scantling abaft 1/2 len. from stem

" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area

" " Tank Side Brackets, height above base line

" " Measured up at toe of Frame and thickness

" " *18 x .30*" " *38 1/4*" " *42 x .46*" " *46*" " *Yes*



## 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.
<b>PILLARS, No. of Rows</b> .....	<i>Centre line</i>			Stringer Plate, breadth and thickness in way of Bridge .....			
„ in 'tween Decks, Size and Spacing .....	<i>Bulkhead</i>			Thickness of Plating abreast Deck openings in way of Wells .....			
„ „ „ „ „	<i>in Cargo</i>			Thickness of Plating abreast Deck openings in way of Bridge.....			
„ „ „ „ „	<i>Tanks, O.F.</i>			Thickness of Plating within line of openings...			
„ in Holds „ „ „	<i>Bunkers,</i>			If Sheathed, material and thickness.....			
„ „ „ „ „	<i>Cofferdams</i>			<b>Third Deck.</b>			
<b>Centre Line Bulkhead, in Cargo Tanks</b> ✓	<i>2 Bulkheads</i>			Stringer Plate, breadth and thickness.....			
Stiffeners and Spacing .....	<i>Ev. frame</i>			If Plated, state thickness .....			
Plating, thickness of .....	<i>30 x 36</i>			<b>Fourth Deck.</b>			
<b>STRINGERS AND DECKS.</b>				Stringer Plate, breadth and thickness.....			
<b>Uppermost Continuous Deck.</b>				If Plated, state thickness.....			
Stringer Plate, breadth and thickness in Wells	<i>53 x 40</i>			<b>Bridge Deck.</b>			
„ „ „ „ in way of Bridge	<i>35-30</i>			Stringer Plate, breadth and thickness.....			
„ „ „ „ „	<i>5 x 40</i>			Plating, Sheathing, material and thickness ...			
„ Angle in Wells .....	<i>35-30</i>			<b>Forecastle Deck.</b>			
Thickness of Plating abreast Deck openings in way of Wells .....	<i>35</i>			Stringer Plate, breadth and thickness.....			
Thickness of Plating abreast Deck openings in way of Bridge.....	<i>35-30</i>			Plating, Sheathing, material and thickness .....			
Thickness of Plating within line of openings... (in way of poop)	<i>35-30</i>						
If Sheathed, material and thickness.....	<i>Cargo in</i>						
<b>Second Deck.</b>	<i>Ev. space</i>						
Stringer Plate, breadth and thickness in Wells							

## SHELL PLATING.

[illegible]

## WATERTIGHT BULKHEADS.

80-T-7  
Total No. of W.T. BULKHEADS in Vessel—  
    *1* *Raised* or *Trunk Top* ✓ *10* ✓  
Extending to Upper Deck (Sec. 3 c).....  
  
~~Deck next below~~  
  
As ~~per Rule~~ *Approved* ✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar .....	Roll'd	6" x 1 1/2"		
STEM .....	5" x 6"			
STERN FRAME { Propeller Post .....	Forging	6" x 4"	T.S. Forster	
{ Rudder " .....	"	6" x 4"	& Smoothed.	
Speed of Vessel .....	Under 12 knots			
RUDDER—Type .....	Ordinary			
" A x D .....	103.5			
" Diam. of head .....	Forging	5" x 8"	T.S. Forster	
" Mainpiece at top pintle .....	"	5 1/2" x 5 1/2"	& Smoothed.	
" " heel .....	Mainpiece & Arms.			
" how constructed .....	forged in one piece			
" double or single plate .....	Double	38		
" coupling, vertical or .....	horizontal			
" horizontal .....				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
O-T ✓ MIDSHIP BULKH'D, Upper 'tween decks						
"	"	Second				
"	"	Third				
"	"	Holds				
COLLISION		(in Hold)				
AFTER PEAK						

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>Open hearth</i> <i>Colville's Ltd</i> ✓
	Has the Steel been tested as required by the Rules? <i>Yes</i>



0209 2/3

-/- Linc 11.45<sup>v</sup>



Steering Gear, Type (Power or hand) *Brown Bros. Electric Hydraulic* ✓ Alternative Means of Steering *Blocks and Tackle led to Electric Capstan on poop* ✓  
Steering Chains (Size and Test) *—* Windlass *Electric by T. Reid. Insley* ✓ Boats *2-20 ft Lifeboats* ✓  
Ceiling in Holds, thickness and material *None* ✓ Cargo Battens, thickness, material and spacing *None* ✓  
Cargo Hatchways. — (Upper Deck) *Raised & Trunk Top Bulk angle Coamings* ✓ Thickness of Hatches *Steel hinged Covers* ✓  
Size of Hatchways No. 1 (Fwd.) *Hold 3-9 x 5-0* ✓ No. 2 *2-0 x 2-0* ✓ No. 3 *1-11 x 1-3* ✓ No. 4 *1-11 x 1-3* ✓ No. 5 *—* No. 6 *—*  
Number of Shifting Beams } *None* ✓ and/or Fore and Afters }  
Builder's Signature *A. & J. Inglis Limited, W. H. Milne* Director.

**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 ✓  
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo. ✓ 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).

This ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The materials and workmanship are good. The Cargo oil tanks, oil fuel bunkers, forward Cofferdam, after Cofferdam, fore peak tank, after peak tank, forward deep tank, and double bottom in boiler room were tested as required by the Rules and found satisfactory. ✓

Foreboard Vent and Marks Out in. ✓ Steering gear and Windlass tried under working conditions and found satisfactory. ✓

Oil fuel is carried in oil fuel bunkers at fore end of Boiler space. ✓ Flash point above 150°F

Section 20 of the Rules complied with where applicable. ✓

The amount of Entry Fee..... £ 4 : 0 : 0 } Fees applied for,  
19.12.1945.  
Special Survey Fee..... £ 133 : 10 : 0 }  
Supervision of Specification 33 7 6 Received by me,  
Travelling Expenses, if any..... £ 8 : 0 : 0 } 19  
Freight  
State whether the Vessel has been built under Special Survey..... Yes  
Certificate to be sent to Glasgow. Date of issue 26/2/46  
Signature B. Dickerson & W. Bolwell  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Character assigned

GLASGOW 28 DEC 1945 19/41  
-/- 100 At 11.45  
with freeboard  
Carrying Petroleum in Bulk  
Longitudinal Framing at Bottom & at Keel.  
-/- Lmc 11.45  
L 50180 lb. air kg  
Lloyd's Re



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.)

This Vessel is Similar to EMPIRE FITZROY (A.S. Regio N° 13012) (Gls Rpt N° 70041) Rpt.

Midship Section as built forwarded in advance.

The approved plans were forwarded to London with the F.E. Report for the "EMPIRE BELGRAVE" (Gls Rpt N° 69670)

The following forging Reports are forwarded herewith:— Stemframe, Rudder, Tiller.

PARTICULARS OF ELECTRIC WELDING (if employed) Shell rubbing bars, Bulge keels, Trunk top to Trunk Sides, Butts of Trunk top and Trunk Side plating, Seams of Trunk top plating in Boiler Room, Raised Quarter deck to Shell at after end and other minor details.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Longitudinal framing at bottom and at deck, Oil engine, Hlyeds A.C.P. Machinery, Cruiser stem, Wireless.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	14.1.21	A.E.G.	7675	13.7.45
	2nd "	14.0.16	A.E.G.	7677	13.7.45
	3rd "	12.2.21	C.P.	7608	19.6.45

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 58.4 ft., R.Q.D. 58.4 ft., Trunk 92.0 ft., Forecastle 22.0 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. On R.Q.D. Raised upper Deck forward 38.1 ft.

Official No. 169457 Signal Letters Extreme Breadth over Belting 32.4" Over-all Length 201.4 1/2" (Circ. 1611) (Circ. 1703)

No. and Material of Decks One Deck Steel.

Parts of Bottom of Vessel coated with cement or approved composition Fore peak, after peak, Deep tank, Double bottom Tank in Boiler space, Engine Room bilges, Pump Room.

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,		31 S.W.
Double bottom, under Engines and Boilers,			After peak tank,		50 S.W.
Double bottom, if under Engines only,			Deep tank, aft, Forward Cofferdam	3.0	37 S.W.
Double bottom, if under Boilers only,	11.3"	9.4	Deep tank, forward,	20.62	47 S.W.
Double bottom, forward,		11.8 T. S.W.	Other tanks, if fitted, After Cofferdam	3.0	43 S.W.
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 6768

Date 6.3.45

Dates of Surveys held while building

19.45 Mar 27 Apr 4.12.16.19 20.26 May 2.7.11.14.24.31 Jun 6.8.11.14.19.24.29 Jul 2.3.4.6.11.12.26.27.30.31 Aug 1.2.4.6.7.8.9.10.16.21.23.30 Sep 7.20 Oct 12.23.31 Nov 1.7.12.14.15.20.22.24.27

Total No. of Visits 57