

STEEL STEAMER ~~or MOTORSHIP~~

Received at London Office SEP 7 1937

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 *3rd September 1937* Port of *Oslo* No. *4973*  
Survey held at *Fredrikstad* Date First Survey *24th February 1937* Last Survey *21st August 1937*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *single screw steamer* "FRANS-GORTHON"State Type (Full scantling, Complete Superstructure with or without Tonnage Openings) *Complete Superstructure* State Type of Erections *100*

TONNAGE under 1437.77 CLASS *100 A1* State if with freeboard as condition of Class *Yes* Built at *Fredrikstad*  
Tonnage Deck...  
Do. of space or spaces between Tonnage Dk. and Upper Dk.  
Total  
Gross Tonnage *1824.24*  
Register Tonnage *931.55*  
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *91.44*  
Breadth (greatest moulded) *13.41*  
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *8.26*  
1st Longitudinal Number (L x D) *742.49*  
2nd Numeral L x (B + D) *1968.70*  
Framing Depth "d," at middle of length. See Sec. 3 (1d) *4.90*  
Proportions—Depth to Length—Uppermost continuous deck to top of keel *11.07*  
Do. Long Bridge to top of keel  
Draught Moulded *18'9"*  
Launched *3rd July 1937* Yard No. *283*  
Builders *Fredrikstad Mek. Verktsted*  
Owners *Federaktiebolaget Lyfse*  
Managers *Joh. Gorthon*  
(Where necessary to be entered in Reg. Book.)  
Residence *Helsingborg*  
Port of Registry *Helsingborg*  
If surveyed while building, afloat, or in dry dock *white building & afloat.*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. mm.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. mm.			Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	-	-	670	✓	Bracket Floors, Frame	180	90	9	✓
" " from $\frac{3}{8}$ length to Collision bulkhead	-	-	670	✓	" " Reversed Frame	165	75	9	✓
" " in peaks	-	-	610	✓	" " Vertical Struts	165	75	9	✓
SIDE FRAMING.					Centre Girder, depth and thickness amidships	905	11.5	9.5	✓
Frame Amidships, Angle, <i>E</i> or <i>F</i>	200	75	11	✓	" " top Angles	75	75	10	✓
" " Extends up to <i>2nd deck</i>				✓	" " bottom Angles	90	90	11.5	✓
Reversed Frame Amidships, Angle <i>E</i> or <i>F</i>	200	75	12.5	✓	Side Girders, No. each side and thickness	one	9.25		✓
" " Extends up to <i>2nd deck</i>				✓	Margin Plate depth (excl. of flange) and thickness	660	10.5		✓
Depth of Framing Girder	-	-	200	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	90	90	9	✓
Frames in <i>cut down from main frame</i> Uppermost Continuous 'tween Decks, Angle, <i>E</i> or <i>F</i>	150	75	11	✓	" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	90	90	9	✓
" " Second 'tween Decks, Angle, <i>E</i> or <i>F</i>	-	-	-		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	every 3rd	9		✓
" " Third " " "	-	-	-		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem	every 3rd	9		✓
Framing in Peaks, Angle or <i>E</i>	150	75	8.5	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	1385	9		✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	-	19	135	✓	INNER BOTTOM PLATING.				
State if Frame Joggled	-	-	Yes	✓	Breadth and thickness of Middle Line Strake	-	2440	10	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>keep frame system thicker frames and interm. side stringers in hold from p. 116 forward</i>				Thickness of remainder in Holds	-	-	9.25	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>extra intercostals B.R. bottom plates from thickness of bottom plating kept op. 5 1/2 dia.</i>				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?	-	-	Yes	✓
SINGLE BOTTOM.					BEAMS.				
Floors, Depth and thickness at mid-line in Holds	-	-	-		Uppermost Continuous Deck, amidships in Wells, Angle, <i>E</i> or <i>F</i>	180	75	10	✓
Height of Brackets at side above base line at toe of frame	-	-	-		" " in way of Bridge, Angle, <i>E</i> or <i>F</i>	-	-	-	
Middle Line Keelson, on Floors, Angles, <i>E</i> or <i>F</i>	-	-	-		Spacing	every frame			✓
" " Through Plate or Intercostal Plate	-	-	-		Second Deck, amidships, Angle, <i>E</i> or <i>F</i>	230	90	11	✓
" " Foundation Plate on Floors	-	-	-		Spacing	every frame			✓
" " Flat Plate Keel Angles	-	-	-		Third Deck, amidships, Angle, <i>E</i> or <i>F</i>	-	-	-	
Side Keelsons, No. each side	-	-	-		Spacing	-	-	-	
" " thickness of Intercostal Plate	-	-	-		Fourth Deck, amidships, Angle, <i>E</i> or <i>F</i>	-	-	-	
" " Angles	-	-	-		Spacing	-	-	-	
DOUBLE BOTTOM.					Poop Deck, Angle, <i>E</i> or <i>F</i>	-	-	-	
Solid Floors, thickness and spacing	8.75	every	4th	✓	Spacing	-	-	-	
" " Are Frame and Reversed Frame joggled?	frames only			✓	Bridge Deck, Angle, <i>E</i> or <i>F</i>	-	-	-	
Bracket Floors, breadth and thickness at middle line	-	680	8.75	✓	Spacing	-	-	-	
" " breadth and thickness at margin plate	-	680	8.75	✓	Forecastle Deck, Angle, <i>E</i> or <i>F</i>	130	65	8.5	✓
					Spacing	every frame			✓



## PILLARS AND DECKS.

[illegible]

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	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. mm.	Inches. mm.	Inches. mm.	Inches. mm.			Inches. mm.	Inches. mm.		Inches. mm.	Inches. mm.		
FLAT PLATE KEEL .....	2430	14 ✓	13.25	13.25		Double	22	90	Three	22	80	Strapped	
„ DBLG. (if any)	—	—	—	—		—	—	—	—	—	—	—	
BOTTOM PLATING, No. } of Strakes ..... 2 .....	2435	11.75 ✓	13	11.75 ✓ 10.5 ✓		Double	19	75 ✓	Three	19	65 ✓	Strapped	
BILGE PLATING, No. of } Strakes ..... 1 .....	2000	11.75 ✓	17.5 ✓	10.5 ✓ 11.75 ✓		Double	19	75 ✓	Three	19	65 ✓	Lapped	
SIDE PLATING, No. of } Strakes ..... 2 .....	2435	11.75 ✓	17.5 ✓	10.25 ✓		Double	19	75 ✓	Three	19	65 ✓	Lapped	
UPPER DECK, Sheer- } strake in Wells.....)	2435	13 ✓	10.25 ✓	10.25 ✓		Double	22	90	Four	22	90	Lapped.	
UPPER DECK, Sheer- } strake in Bridge ...)	—	—	—	—		—	—	—	—	—	—	—	
STRAKE BELOW Sheer- } strake in Wells.....)	2435	11.75 ✓	17.5 ✓	10.25 ✓		Double	19	75 ✓	Three	19	65 ✓	Lapped	
STRAKE BELOW Sheer- } strake in Bridge ...)	—	—	—	—		—	—	—	—	—	—	—	
POOP SIDE PLATING .....	—	—	—	—		—	—	—	—	—	—	—	
BRIDGE SIDE PLATING ...	—	—	—	—		—	—	—	—	—	—	—	
FOREC'TLE SIDE PLATING	—	—	9.25 ✓	—		Single	19	75 ✓	Two	19	65 ✓	Lapped	

## WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		STIFFENERS.					
		Plating Thickness.	VERTICAL.		HORIZONTAL.		
			Scantlings.	Spacing.	Scantlings.	Spacing.	
Extending to Upper Deck (Sec. 3 c)	Two						
„ Deck next below	Two						
As per Rule	Five						
MIDSHIP BULKH'D, Upper tween decks	6.5	150 x 75 x 10	745	—	—		
„ „ Second „	—	—	—	—	—		
„ „ Third „	6.5	150 x 75 x 9.5 E.R. 4th fl'd.	760	—	—		
„ „ Holds .....	7.5	150 x 75 x 10 E.R. 4th fl'd.	745	—	—		
„ „ (in Hold) .....	8.5	110 x 75 x 8 L	610	—	—		
„ „ (in Hold) .....	7.5	100 x 65 x 8.5	760	—	—		
„ „ (in Hold) .....	8	90 x 65 x 8	610	—	—		

		Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		—	—	—	—
STEM		Plates & bars, both welded. —			
STERN FRAME	Propeller Post	casting	190 465	Otto Brunsen Magdeburg	—
	Rudder	forging	185 dia	F.M.V.	—
Speed of Vessel		13 knots	✓	—	—
RUDDER—Type		Simplex	✓	Bestock Werff	—
„ A x D		—	4.13	—	—
„ Diam. of head		—	183	—	—
„ Mainpiece at top pintle		—	210	—	—
„ „ heel		—	200	—	—
„ how constructed		Plates & bars, both welded. —			
„ double or single plate		double plate ✓ —			
„ coupling, vertical or horizontal		—	horizontal	—	—

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Cornwallis Ltd; -  
Intelloffnungs Rütte, Neu-Obbauhan; - Kitzbier Mines Steel & Iron Works Corp. - Deutsche Röhrenwerke A.G. Mülheim,  
Union de Acieries S/A.  
Has the Steel been tested as required by the Rules? Yes.



EQUIPMENT No 2015.66 metric										LETTER "E".		ANCHORS.			
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.				
3054	1st Bower ...	41	2	4	✓			36	17	3	17	42	Gruen Stockless	Otto Gruen	Magdeburg 23/4/37
3055	2nd " ...	41	0	12	✓			36	11	2	7		" "	"	K. Stolle
3056	3rd " ...	41	0	3	✓			36	11	2	7		" "	Magdeburg.	London date 1/5 24/5/37
	Collective weight.	123	2	19	✓							119 1/2 ✓			
3057	Stream .....	11	1	1	✓	2	3	18	13	5	-	-	stock		- - - 1/5

CHAIN CABLES.										HAWERS 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.	
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
1443	242	1 7/8	63 1/4	88 1/2	445.0	1	425 1/4	240	1 7/8	1 7/8	Steel link	Tota Werke, Warmer/Ruhr G.m.B.H.	Jul. Ruast Dortmund 12/3/37	TOWLINE	185	89	35.765	185	89 1/4
													London date 8/4/37	HAWERS & WARPS	2x 165	51	11.38	165	51 1/4
Iron Stream Chain or Steel Wire	135	95	✓	40.54	✓				75	3 3/4	✓								

Steering Gear, Steam 178 x 178 mm. ✓ Steering Gear, Hand Screw gear ✓  
Boats Two lifeboats 7 x 2.3 x 89 m. ✓ Steering Chains, Size and Test Idemston Windlass 230 x 280 mm.  
Ceiling in Holds, thickness and material 65 mm. pine ✓ Cargo Battens, thickness, material and spacing 50 mm. pine, 240 clear ✓  
Cargo Hatchways. (Upper Deck) Plates and angles, 5 off. Thickness of Hatches 60 mm.  
Size of No. 1 Hatchway (Forward) 8.04 x 5.5 No. 2 8.04 x 6.4 No. 3 7.71 x 6.4 No. 4 8.04 x 6.4 No. 5 8.04 x 6.4 No. 6 ✓  
Number of Shifting Beams and/or Fore and Afters Five in each hatchway

Builder's Signature

pr. % FREDRIKSTAD MEK. VERKSTED

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 ☒ Yes  
(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.

This vessel has been built in accordance with the approved plans and in accordance with the Secretary's letters concerning the vessel.

The materials and workmanship are good; the materials employed in the construction of the vessel have been tested by the Society's Surveyors at approved steelworks. The electrical welding of tanktop and bulkhead butts and seams, tunnel and other parts of structural importance has been satisfactorily carried out by recognised welders using approved electrodes.

The double bottom tanks, fore and after peak tanks and oil fuel settling tanks have been tested as per Rules. The weather decks, bulkheads and tunnel have been hose tested; the tonnage well aft has been tested by being filled with water.

Oil fuel is to be carried as fuel in double bottom tanks No 1, 2, 3, 4, 6 & 7 and

The amount of Entry Fee ..... kr. 99.50  
Special Survey Fee.... kr. 3307.38

Fees applied for,  
4/9/1937

Received by me,

1.10.1937

(Special notations, where part of class, to be stated.)  
Strengthened for navigating in ice.  
Rudder electrically welded. Intern. chd.  
in forehold dispensed with. 4 chds.  
We are of opinion the Vessel should be Classed 100 A 1 with freeboard.

Travelling Expenses, if any kr. 575.-  
Survey held on behalf of Swedish authorities kr. 550. (Ind. exp. kr. 150.)

State whether the Vessel has been built under Special Survey ☒ Yes

Signature

Per Johan-Roar Kude  
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Oslo office

Date of issue

30/9/37

Committee's Minute

FRI 24 SEP 1937

Character assigned

+ 100 A1 with freeboard  
Strengthened for Navigation in Ice  
Lloyd's A1 Rudder electrically welded  
+ Lmc 8.37 Spc 10 Ch  
Fitted for oil fuel 8.37 2P above 1500T  
with 600T (17mm)

The surveyor, if requested not to write on or below the Committee's Minute.



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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.)

two settling tanks in engine room, flash point above 150° F. -

Forging and casting reports are enclosed herewith

A letter from the owner regarding the omission of the bulkhead in the fore hold and the electric welding ~~are~~ is enclosed.

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

Strengthened for navigating in ice ✓

Rudder electrically welded ✓

Interm. bulkhead in fore hold dispensed with, 4 blds.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	27.0.23.	AS.	1603.	15/4/37	shanks.	11.3.0	AS.	1606	15/4/37
	2nd	26.3.7.	AS.	1605	"	-	11.3.7	"	1607	"
	3rd	26.2.20	AS	1604	"	-	11.2.24	"	1608.	"
		10.0.5.	AS.	1575	19/3/37					

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 26 ✓ ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks

Two steel

Swedish  
Official No.

8194

;

Signal Letters

S.K.C.T.

Is bottom of vessel coated with cement ✓

if not give

particulars of composition ✓

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	83' 6 1/4"	168.5 ✓	Fore peak tank,	20' 2"	80 ✓
Double bottom, under Engines and Boilers,			After peak tank,	24' 10"	70 ✓
Double bottom, if under Engines only,	37' 4 1/2"	115.5 ✓	Deep tank, aft,	—	—
Double bottom, if under Boilers only,			Deep tank, forward,	—	—
Double bottom, forward,	120' 10 1/2"	251 ✓	Other tanks, if fitted,	—	—
	Total capacity of double bottom	535 ✓	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No.

Date

27th Oct. 1936

Dates of Surveys held while building

February 24th; March 20th; April 9th, 17th, 26th; May 11th, 15th, 21st, 25th & 28th, June 9th, 11th, 16th, 19th & 25th; July 1st & 3rd, 26th, 27th; August 3rd, 6th, 17th, 18th, 20th & 21st

Total No. of Visits

25