Rpt. 1.

STEEL STEAMER ~~or MOTORSHIP~~.

Received at London Office 17 SEP 1930

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 5th September 1930. Port of Greenock No. 19233.

Survey held at Greenock. Date First Survey 19th September 1929. Last Survey 5th September 1930.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) 3 Mast. Scrg. Sc. "MELMAY"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING. State Type of Erections { POOP, BRIDGE, & FORECASTLE ON SHELTER DK.

TONNAGE under Tonnage Deck	4975·01
Do. of space or spaces between Tonnage Dk. and Upper Dk.	✓
Total	4975·01
Gross Tonnage	5572·26
Register Tonnage	3265·05

CLASS ✠ 100 A1. State if with freeboard as condition of Class YES.

		FEET.
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)	L	420
Breadth (greatest moulded)	B	59
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) ACTUAL DEPTH 36·25	D	35·75
1st Longitudinal Number (L × D)	=	15015
2nd Numeral L × (B + D)	=	39795
Framing Depth "d," at middle of length. See Sec. 3 (1d)		23·54
Proportions—Depth to Length—Uppermost continuous deck to top of keel		11·58
Do. Long Bridge to top of keel		9·52
Draught Moulded		24·4¼"

Built at GREENOCK

Launched 9th JUNE 1930. Yard No. 419.

Builders THE GREENOCK DOCKYARD C° LTD.

Owners THE MELMAY SHIPPING COMPANY LIMITED.

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

Residence 24 GEORGE SQ. GLASGOW.

Port of Registry GLASGOW.

If surveyed while building, afloat, & in dry dock YES.

REGISTERED DIMENSIONS.

	FEET.
Length	421·4
Breadth	59·25
Depth	24·75

FRAMES, DOUBLE BOTTOM AND BEAMS.

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	30			
„ „ from 3/5 length to Collision bulkhead	27			
„ „ in peaks	24			
SIDE FRAMING.				
Frame Amidships, ~~Angle, E or [~~	12	3½	·51	
„ „ Extends up to	2ND DECK.			
~~**Reversed Frame Amidships,** Angle~~		✓		
„ „ ~~Extends up to~~		✓		
Depth of Framing ~~**Girder**~~	12			
Frames in Uppermost Continuous 'tween Decks, ~~Angle, E or [~~	7	3½	·33	EVERY FRAME
„ „ ~~BRIDGE. Second~~ **'tween Decks,** ~~Angle, E or [~~	7	3½	·33	
„ „ ~~Third~~ „ „ „ „		✓		
Framing in Peaks, ~~Angle or [~~	7	3½	·46	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	⅞		5/4	
State if Frame Joggled	YES.			
CANTING ARRANGEMENTS (Sec. 7), state system and particulars	B.B. FRAME & REV. FR. & 4 SIDE STRINGERS AS APPROVED.			
STRENGTHENING OF BOTTOM FORWARD. State Particulars	FRAMES 5 TO 5½ H. ADDIT. INTER L.S. & 3 STRAKES PLATING INC.			
~~**SINGLE BOTTOM.**~~				
Floors, Depth and thickness at mid-line in Holds				
Height of Brackets at side above base line at toe of frame				
Middle Line Keelson, on Floors, Angles, [or [				
„ „ „ Through Plate or Intercostal Plate				
„ „ „ Foundation Plate on Floors				
„ „ „ Flat Plate Keel Angles				
Side Keelsons, No. each side				
„ „ thickness of Intercostal Plate				
Angles				
DOUBLE BOTTOM.				
Solid Floors, thickness and spacing	·44 EVERY FR.			
„ „ Are Frame and Reversed Frame joggled ?	YES.			
~~**Bracket Floors,** breadth and thickness at middle line~~				
„ „ breadth and thickness at margin plate				

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
~~**Bracket Floors,** Frame~~				
„ „ Reversed Frame				
„ „ Vertical Struts				
Centre Girder, depth and thickness amidships	50	✓	·56	
„ „ top Angles	3½	3½	·54	
„ „ bottom Angles	4	4	·62	
Side Girders, No. each side and thickness	ONE	✓	·44	
Margin Plate depth (excl. of flange) and thickness	47	✓	·54	
„ „ Vertical Angle to Tank side Bracket abaft ¼ len. from stem	5	5	·48	
„ „ Vertical Angle to Tank side Bracket forward ¼ len. from stem	5	5	·48	
„ „ Gussets, spacing and scantling abaft ¼ len. from stem	CONTINUOUS PLT. IN HOLDS		·42	
„ „ Gussets, spacing and scantling forward ¼ len. from stem	"	"	"	
Tank Side Brackets, height above base line at toe of Frame and thickness	76	✓	·48	
INNER BOTTOM PLATING.				
Breadth and thickness of Middle Line Strake	54½	✓	·64	53½ × ·52
Thickness of remainder in Holds	✓	✓	·54	·45
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.			
BEAMS.				
Uppermost Continuous Deck, ~~amidships~~ in Wells, ~~Angle, E or [~~	10	3½	·40	
„ „ in way of Bridge, ~~Angle, E or [~~	12	3½	·44	
Spacing	EVERY FRAME.			
Second Deck, ~~amidships, Angle, E or [~~	11	3½	·64	
Spacing	EVERY FRAME.			
~~**Third Deck,** amidships, Angle, E or [~~				
Spacing				
Fourth Deck, amidships, Angle, [or [				
Spacing				
Poop Deck, ~~Angle, E or [~~	8	3	·48	
Spacing	EVERY FRAME.			
Bridge Deck, ~~Angle, E or [~~	9	3½	·55	
Spacing	EVERY FRAME.			
Forecastle Deck, ~~Angle, E or [~~	9	3½	·42	
Spacing	EVERY FRAME.			

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(1/2) WS2-0058

PILLARS AND DECKS.

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows... ONE, IN POOP, FCLE, & CREW				SHOCK.
„ in ~~'tween Decks~~ POOP, Size and Spacing.....	2 7/8	AT	60	
„ „ FCLE „ „ „	2 1/4	AT	54	
„ in ~~Holds~~ CREW SR „	3/4	AT	60	
„ „ „ „ „				
Centre Line Bulkhead. IN HOLDS & TWEEN DK.				
Stiffeners and Spacing..... { IN HOLDS	12 × 3 1/2 × 5/8		B.P.	AT 60"
{ IN TW. DK.	5 × 3 × 30		ANG	AT 60
Plating, thickness of ..... { IN HOLDS			.30	
{ IN TW. DK.			.26	
STRINGERS AND DECKS.				
Uppermost Continuous Deck.				
Stringer Plate, breadth and thickness in Wells	81 1/4		.72	79 × .60
„ „ „ „ in way of Bridge	81 1/2		.40	
„ Angle in Wells	6	6	.63	
Thickness of Plating abreast Deck openings in way of Wells			.60	.50
Thickness of Plating abreast Deck openings in way of Bridge			.37	
Thickness of Plating within line of openings...			.48	.40
~~If Sheathed, material and thickness~~		✓		
Second Deck.				
Stringer Plate, breadth and thickness in Wells...	82 1/2		.40	

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
Stringer Plate, breadth and thickness in way of Bridge	82 1/4		.37	
Thickness of Plating abreast Deck openings in way of Wells			.37	
Thickness of Plating abreast Deck openings in way of Bridge			.34	
Thickness of Plating within line of openings...			.34	
~~If Sheathed, material and thickness~~		✓		
~~**Third Deck.**~~				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness.....				
Fourth Deck.				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness				
Poop Deck.				
Stringer Plate, breadth and thickness			.43	.36
Plating, ~~Sheathing, material and~~ thickness ...			.36	.30
Bridge Deck.				
Stringer Plate, breadth and thickness.....	75		.53	.44
Plating, ~~Sheathing, material and~~ thickness ...			.53	.44
Forecastle Deck.				
Stringer Plate, breadth and thickness.....			.36	
PLATING			.30	
~~Plating,~~ Sheathing, material and thickness ...	P. P.		2 1/2	

SHELL PLATING.

SCANTLINGS.

STRAKES.	As in Vessel. Amidships. Breadth.	Amidships. Thickness.	Forward. Thickness.	Aft. Thickness.	Any Departure from Approved Plans to be Noted.
	Inches.	Inches.	Inches.	Inches.	
Flat Plate Keel	52	.78	.68	.68	
~~„ Dplg. (if any)~~					
Bottom Plating, No. of Strakes ..~~4~~.....		.60	.50	.50	
Bilge Plating, No. of Strakes ....~~4~~.....		.60	.50	.52	
Side Plating, No. of Strakes ....~~4~~.....		.59	.46	.48	
Upper Deck, Sheer-strake in Wells.....	51	.70	.51	.46	
Upper Deck, Sheer-strake in Bridge ...	51	.59			
Strake below Sheer-strake in Wells.....	61 1/2	.66	.46	.46	
Strake below Sheer-strake in Bridge ...	61 1/2	.59			
Poop Side Plating				.40	
Bridge Side Plating ...		.54			
Forec'tle Side Plating			.42		

RIVETING.

	Edges. State if joggled? NO. Single or Double.	Edges. Rivets. Diam. Inches.	Edges. Rivets. Spacing cr. to cr. Inches.	Butts. No. of Rows of Rivets.	Butts. Rivets. Diam. Inches.	Butts. Rivets. Spacing cr. to cr. Inches.	Butts. Strapped or Lapped.
Flat Plate Keel	DOUBLE.	7/8	3 3/4	4 R. TO 3 R.	1	4	LAPPED.
~~„ Dplg. (if any)~~							
Bottom Plating, No. of Strakes ..~~4~~.....	"	"	"	3 R. FORE & AFT.	7/8	3 1/2	"
Bilge Plating, No. of Strakes ....~~4~~.....	"	"	3	"	"	"	"
Side Plating, No. of Strakes ....~~4~~.....	"	"	3 3/4	"	"	"	"
Upper Deck, Sheer-strake in Wells.....	"	"	"	4 R. TO 3 R.	"	3 1/2	"
Upper Deck, Sheer-strake in Bridge ...	"	"	"	3 R.	"	3 1/2	"
Strake below Sheer-strake in Wells.....	"	"	"	4 R. TO 3 R.	"	3 1/2	"
Strake below Sheer-strake in Bridge ...	"	"	"	3 R.	"	3 1/2	"
Poop Side Plating	SINGLE.	"	3	1 R.	"	"	"
Bridge Side Plating ...	DOUBLE	"	3 3/4	3 R.	"	"	"
Forec'tle Side Plating	SINGLE	"	3	1 R.	"	"	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— 6.

Extending to Upper Deck (Sec. 3 *c*) ..... 1. (SHELTER DECK.)

„ Deck next below 5

As per Rule 7

	Plating Thickness.	Stiffeners. Vertical. Scantlings.	Stiffeners. Vertical. Spacing.	Stiffeners. Horizontal. Scantlings.	Stiffeners. Horizontal. Spacing.
MIDSHIP BULKH'D, ~~Upper tween decks~~					
„ „ Second „					
„ „ Third „					
„ „ Holds	.38/.26	B.P. H. 3 1/2 × 5/16	30"	✓	
COLLISION „ (in Hold)	.54/.33	B.P. 8 × 3 × 12	24	3 SEMI-BOX BEAMS & C.L. FLAT.	
AFTER PEAK „ „	.48/.30	B.P. 8 × 3 × 7/8	24	1 SEMI-BOX BEAM & TUNNEL PLAT.	

FORGINGS ~~and CASTINGS.~~

	~~Casting or~~ Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
~~KEEL, Bar~~				
STEM	ROLLED.	10" × 2 1/2"		
STERN FRAME { Propeller Post	STEEL.	10 1/2 × 7 3/8	DENNYSTOWN	
{ Rudder „		9 × 7 3/8	FORGE Co.	
RUDDER—A × D ..... 500 · 6				
Speed of Vessel ..... 12 KNOTS.				
RUDDER mainpiece at head ...	STEEL	10 1/2" DIA.	DENNYSTOWN	
„ „ heel ...		8 "	FORGE Co.	
„ how constructed	BUILT FORGING.			
„ ~~double or~~ single plate		1.06		
„ coupling, vertical or horizontal		VERTICAL.		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH PROCESS. THE STEEL COMPANY OF SCOTLAND Lᵈ, D. COLVILLE & SONS, CONSETT IRON Cº, STEWARTS & LLOYDS Lᵈ. SKINNINGROVE IRON WORKS.

Has the Steel been tested as required by the Rules? YES.

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EQUIPMENT No. 11351. LETTER b †.

ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex. Stock. Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test, per Certificate. Tons.	cwts.	qrs.	lbs.	Weight required by Table 53. Cwts.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
63631	1st Bower ...	73	2	7	STOCKLESS			55	10	0	0	72½	AYERS TYPE.	S. TAYLOR & SONS	TIPTON 29-4-30 ARYSABLE.
63632	2nd „ ...	73	1	14	"			55	10	0	0	72½	"	"	" " "
63633	3rd „ ...	62	2	12	"			49	15	0	0	62	"	"	" 30-4-30 "
	Collective weight.	209	2	5								207			
63653	Stream	20	3	19	5	2	0	21	10	1	7	20½	ROGERS	"	" 3-5-30 "

CHAIN CABLES.

Number of Certificate.	Length and size supplied. Length. Fathoms.	Diam. Ins.	Test per Certificate. Statutory. Tons.	Breaking. Tons.	Weight of Chain Cable. Supplied. Cwts. qrs. lbs.	Per Rule. Cwts.	Length and Size per Table 53. Length. Fathoms.	Diam. Ins.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
4092	300	2⅜	101¹⁰	142¹⁰	857-2-21	844½	300	2⅜	STOR LINK.	S. TAYLOR & SONS.	GLASGOW 9-5-30 HARPER.
		Cir.						Cir.			
~~Iron~~ Stream ~~Chain~~ Steel Wire	120	5		59			120	5	G.S.W.		

HAWSERS AND WARPS.

Material.	Length and Size supplied. Length. Fathoms.	Cir. Ins.	Breaking Test of Steel Wire. Tons.	Length and Size per Table 53. Length. Fathoms.	Cir. Ins.
TOWLINE...	130	5½	88	130	5½
HAWSERS & WARPS	4@100	2¾	15½	4@100	2¾
"	4@90	7	MANILA		✓
"	2@120	3½	"		✓

Steering Gear, Steam BY J. HASTIE & Co. **Steering Gear, Hand** RELIEVING TACKLES WORKED FROM WINCH.

Boats FOUR. **Steering Chains,** Size and Test TELEMOTOR CONTROL. **Windlass** STEAM, BY CLARKE CHAPMAN.

Ceiling in Holds, thickness and material OVER LIMBERS ONLY 2½" W.P. **Cargo Battens,** thickness, material and spacing 2" W.P. SPACED 9".

Cargo Hatchways.—(Upper Deck) STEEL PLATES & ANGLES. **Thickness of Hatches** 3"

Size of **No. 1 Hatchway** (Forward) 36'×20'-2½" **No. 2** 37'-6"×20'-2½" **No. 3** 20'×20'-2½" **No. 4** 37'-6"×20'-2½" **No. 5** 37'-6"×20'-2½" ~~**No. 6**~~ TONNAGE OPENING 5'-0"×20'-2½"

Number of **Shifting Beams** ~~and/or **Fore** and **Afters**~~ 7 TO N^os 1-2-4-5, 3 TO N^o 3.

THE GREENOCK DOCKYARD CO., LTD.

Builder's Signature DIRECTOR.

GENERAL DECLARATION. *It should be stated (a) whether the vessel 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* NO. *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, instructions & printed Rules of this Society. The materials & workmanship are of good quality. The peak tanks, engine room double bottom tank, B.R. tank & cofferdams have been tested as required by the Rules for water ballast compartments & the remaining double bottom tanks (N^os 1-2-3-4-7) for oil fuel & Sect. 20 of the Rules fully complied with. Flashpoint of oil above 150° F. The bulkheads, tunnel, W.T. doors & weather decks have been hose tested & found satisfactory. The freeboard has been verified & the marks cut in on the vessel's sides.

See Glasgow Secretary's letter of 4th Sept. 1929 with reference to Owners consent for omission of bulkhead. (See Owners letter of 30th Aug. to London Office re omission of bulkhead)

The amount of Entry Fee ..... £ 9 : 0 : 0 — Fees applied for, 4TH SEPTEMBER 1930

Special Survey Fee.... £ 339 : 6 : 0

FREEBOARD FEE 9 : 3 : 4 — Received by me, 6TH SEPTEMBER 1930

Travelling Expenses, if any £ . . .

I am of opinion the Vessel should be Classed ✠ 100 A1. "WITH FREEBOARD" "1 INTERMEDIATE BULKHEAD DISPENSED WITH. COLLISION BH. TO SHELTER DECK 5 BH. TO SECOND DECK."

State whether the Vessel has been built under Special Survey YES.

Certificate ~~to be~~ sent to GREEN^K via Glo. OFFICE. Date of issue ~~19~~ 23/9/30

Signature W. L. Swinton. *Surveyor to Lloyd's Register of Shipping.*

Committee's Minute GLASGOW 16 SEP 1930

Character assigned ✠ 100 A1. with freeboard 9.30 Lloyds AR CP + LMC 9.30 FD. Fitted for oil fuel 9.30 FP above 150° F.

1 Intermediate B.H. dispensed with, Coll. B.H. to Shelter DK. 5 B.H. to 2nd DK

The Surveyors are 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.*)

The following approved plans & reports are forwarded herewith

Midship Section, Profile & Dk. plans, Sternframe & Rudder, Quadrant Panting arrangement, Hatchways & beams, Scarphing of lower dk. Stem Side dk. beams & pillars (amended), Streamline plates, Pumping arrang.t, Oil fuel settling tanks. (11 plans.)
Also reports on forged sternframe, rudder, & cast steel quadrant & tiller Midship Section & profile & Dk plans of ship as Built also forwarded.

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

1st Bower Cr 42-0-25, A.L., 2303, 11-9-29
2nd ,, 42-0-14, A.B., 2282, 22-8-29
3rd ,, 34-1-3, M.A.B., 4426, 11-10-29

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 36·25 ft., ~~R.Q.D. ft.~~, Bridge 119·2 ft., Forecastle 44·5 ft. (in feet and tenths). ~~When the Poop is joined to the B.D., this should be distinctly stated~~ ON SHELTER DECK. COMPLETE SUPERSTRUCTURE VESSEL.

No. and Material of Decks (*this information is to be given as it should appear in the Register Book*) 1 DK. (STL.) & SHELTER DK. (STL.)

Official No. 161931. ; Signal Letters ..... Is bottom of Vessel coated with cement ~~if not give particulars of composition~~ WHOLLY CEMENTED IN L. & B. TANKS & IN PEAKS, FILLETS ELSEWHERE.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	132·5	442
~~Double bottom, under Engines and Boilers,~~		✓
Double bottom, ~~if~~ under Engines ~~only,~~	27·5	157
Double bottom, ~~if~~ under Boilers ~~only,~~	20·0	115
Double bottom, forward,	183·0	803
Total capacity of double bottom		1517

Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Fore peak tank,		190
After peak tank,		81
~~Deep tank, aft,~~	✓	
~~Deep tank, forward,~~	✓	
~~Other tanks, if fitted,~~	✓	
(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.
3630

Order for Special Survey No. 2298

Date 16-9-29.

Dates of Surveys held while building

(1929) Sept. 19·23·25·27·30 Oct. 2·4·7·8·10·11·15·14·21·23·25·29·31 Nov. 4·6·8·12·14·18·20·22·25·24·29 Dec. 3·5·6·9·11·13·14·19·24·25·26·30
(1930) Jan. 6·8·10·13·15·14·21·22·23·24·27·29 Feb. 3·5·7·10·12·14·18·20·24·27 Mar. 3·5·7·12·14·18·20·21·24·26·28·31 Apl. 3·4·8·10·11·15·18·21·23·25·28 May 1·5·7·9·14·16·19·20·22·23·29·30 June 6·9 July 18 Aug. 19·29 Sept. 3·5

Total No. of Visits 105.

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