Rpt. 1.

# STEEL STEAMER or MOTORSHIP.

11 FEB 1929
Received at London Office .....

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 8th February 1929 Port of Leith No. 174531.

Survey held at Leith Date First Survey 21st Septr 1928 Last Survey 2nd February 1929

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) S.S. Twin Screw Grab Hopper Dredger "CHUN PING" (mach aft)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Dredger State Type of Erections ✓

**TONNAGE under Tonnage Deck** 392·83

Do. of space or spaces between Tonnage Dk. and Upper Dk. ✓

**Total** ✓

**Gross Tonnage** 425·50

**Register Tonnage** 210·83

CLASS +100A1 D. Twin Screw Hopper D. Strengthened for navigation in ice. 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 139·5 |
| **Breadth** (greatest moulded) | B 29·5 |
| **Depth,** at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) | D 12·75 |
| **1st Longitudinal Number** (L × D) | = 1778·62 |
| **2nd Numeral** L × (B + D) | = 5893·87 |
| **Framing Depth "d,"** at middle of length. See Sec. 3 (1d) | 11·50 in Crew Acc / 10·75 in Eng Space |
| **Proportions**—Depth to Length—Uppermost continuous deck to top of keel | 10·94 |
| Do. Long Bridge to top of keel | ✓ |
| **Draught Moulded** To top of Keel | 11-4 3/16" |
| " bottom " " | 11-4 3/16 |

Built at Leith

Launched 28th Dec 1928 Yard No. 125

Builders Thomas Henry Robb Ltd

Owners Priestman Brothers Ltd

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

Residence Hull

Port of Registry Hull

If surveyed while building, afloat, or in dry dock While building & afloat.

**REGISTERED DIMENSIONS.**

| | FEET. |
|---|---|
| Length | 139·5 |
| Breadth | 29·6 |
| Depth | 12·2 |

## FRAMES, DOUBLE BOTTOM AND BEAMS.

| | Inches in Ship. | Any Departure from Approved Plans to be Noted. |
|---|---|---|
| **FRAMES, Spacing amidships** | 22 | |
| " " from ¾ length ~~to Collision bulkhead~~ fold | 18 | |
| from 3/4 L aft " " ~~in peaks~~ | 22 | |
| **SIDE FRAMING.** | | |
| **Frame Amidships,** Angle, ~~[ or [~~ | 5 3 ·36 | |
| " " Extends up to | deck | |
| **Reversed Frame Amidships,** Angle on floors | 2½ 2½ ·30 | |
| " " Extends ~~up to~~ for length of floors | | |
| **Depth of Framing Girder** | 5 | |
| Formed in Fore Peak for ice | 6 3 ·40 | 6 |
| **Frames in Uppermost Continuous 'tween Decks.** Angle, [ or [ | | |
| " " **Second 'tween Decks,** Angle, [ or [ | | |
| " " **Third** " " " " | | |
| Fore Peak **Framing in Peaks,** ~~Angle or [~~ | 6 3 ·40 | 6 |
| After Peak **Diameter** and Spacing of Rivets through Frame and Shell Plating amidships | 4 2½ ·34 L<br>5/8 3/4 7" dia | |
| **Plate if Frame Joggled** | Joggled | |
| **STIFFENING ARRANGEMENTS** (Sec. 7), state system and particulars | Strengthened for ice close framing & two stringers. | |
| **STRENGTHENING OF BOTTOM FORWARD.** State Particulars | ✓ | |
| **DOUBLE BOTTOM.** Eng Space | 15 ·34 | |
| **Floors,** Depth and thickness at ~~mid line in~~ Holds — Bunker Space | 15 ·40 | |
| Crew Space | 15 ·30 | |
| Height of Brackets at side above base line at toe of frame | 30 | |
| **Middle Line Keelson,** on Floors, Angles, ~~[ or [~~ | (2) 3½ 3½ ·30 | |
| " " Through Plate ~~or Intercostal Plate~~ | ·34 for ½ L to ·30 | |
| " " Foundation Plate on Floors | (2) 12" ·34 for ½ L to ·30 | |
| " " Flat Plate Keel Angles | (2) 3½ 3½ ·36 | |
| **Keelsons,** No. each side | one | |
| " thickness of Intercostal Plate | ·28 | |
| " Angles Single | 6 3 ·34<br>to ·28 | |
| **DOUBLE BOTTOM.** | | |
| **Solid Floors,** thickness and spacing | | |
| " " Are Frame and Reversed Frame joggled? | | |
| **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 | | |
| " " top Angles | | |
| " " bottom Angles | | |
| **Side Girders,** No. each side and thickness | | |
| **Margin Plate** depth (excl. of flange) and thickness | | |
| " " Vertical Angle to Tank side Bracket abaft ¼ len. from stem | | |
| " " Vertical Angle to Tank side Bracket forward ¼ len. from stem | | |
| " " Gussets, spacing and scantling abaft ¼ len. from stem | | |
| " " Gussets, spacing and scantling forward ¼ len. from stem | | |
| **Tank Side Brackets,** height above base line at toe of Frame and thickness | | |
| **INNER BOTTOM PLATING.** | | |
| Breadth and thickness of Middle Line Strake | | |
| Thickness of remainder in Holds | | |
| 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? | | |
| **BEAMS.** | | |
| **Uppermost Continuous Deck,** amidships ends of Hopper ~~in~~ Well, Angle, ~~[ or [~~ | 6 3 ·32 | |
| " in way of Bridge, Angle, [ or [ | ✓ | |
| Spacing | Every frame | |
| **Second Deck,** amidships, Angle, [ or [ | | |
| Spacing | | |
| **Third Deck,** amidships, Angle, [ or [ | | |
| Spacing | | |
| **Fourth Deck,** amidships, Angle, [ or [ | | |
| Spacing | | |
| **Poop Deck,** Angle, [ or [ | | |
| Spacing | | |
| **Bridge Deck,** Angle, [ or [ | | |
| Spacing | | |
| **Forecastle Deck,** Angle, [ or [ | | |
| Spacing | | |

1m,1,27. T.



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## PILLARS AND DECKS.

| | Inches in Ship. | Any Departure from Approved Plans to be Noted. |
|---|---|---|
| **PILLARS**, No. of Rows In Eng Space 3 on each side | | 3" dia |
| ~~in 'tween Decks, Size and Spacing~~ | | |
| In After Peak 2 at centre line | | 2½" dia |
| " " " " " | | |
| ~~in Holds~~ " | | |
| In Crew Space & Cross Bunker the middle strengthened for Cranes | | |
| **Centre Line Bulkhead.** | | |
| Stiffeners and Spacing | | |
| Plating, thickness of | | |
| **STRINGERS AND DECKS.** | | |
| **Uppermost Continuous Deck.** | | |
| Stringer Plate, breadth and thickness in Wells | 46 ·32 | |
| " " " " in way of Bridge | | |
| " Angle in Wells | 3½ 3½ ·36 | |
| Thickness of Plating abreast ~~Deck~~ Hopper openings ~~in way of Wells~~ carried at Hopper level ends | 46 ·32 | |
| Thickness of Plating abreast Deck openings in way of Bridge | | |
| Thickness of Plating within line of openings | | |
| If Sheathed, material and thickness | | |
| **Second Deck.** | | |
| Stringer Plate, breadth and thickness in Wells | | |
| Stringer Plate, breadth and thickness in way of Bridge | | |
| Thickness of Plating abreast Deck openings in way of Wells | | |
| Thickness of Plating abreast Deck openings in way of Bridge | | |
| Thickness of Plating within line of openings | | |
| 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 | | |
| Plating, Sheathing, material and thickness | | |
| **Bridge Deck.** | | |
| Stringer Plate, breadth and thickness | | |
| Plating, Sheathing, material and thickness | | |
| **Forecastle Deck.** | | |
| Stringer Plate, breadth and thickness | | |
| Plating, Sheathing, material and thickness | | |

## SHELL PLATING.

### SCANTLINGS.

| STRAKES. | As in Vessel. Amidships. Breadth. (Inches.) | Amidships. Thickness. (Inches.) | Forward. Thickness. (Inches.) | Aft. Thickness. (Inches.) | Any Departure from Approved Plans to be Noted. |
|---|---|---|---|---|---|
| Flat Plate Keel | 38 | ·44 | ·40 | ·40 | ✓ |
| " Dblg. (if any) | | | | | |
| Bottom Plating, No. of Strakes 3 | 46 | ·34 | ·50 | ·34 | ✓ |
| Bilge Plating, No. of Strakes 1 | 54 | ·34 | ·50 | ·32 | ✓ |
| Side Plating, No. of Strakes 2 | 47 | ·34 | ·50 | ·32 | ✓ |
| ~~Upper Deck, Sheer-strake in Wells~~ | 44 | ·38 | ·57 | ·32 | ✓ |
| Upper Deck, Sheer-strake ~~in Bridge~~ | 47 | ·38 | ·32 | ·32 | ✓ |
| Strake below Sheer-strake in Wells | | | | | |
| Strake below Sheer-strake in Bridge | | | | | |
| Poop Side Plating | | | | | |
| Bridge Side Plating | | | | | |
| Forec'tle Side Plating | | | | | ✓ |

### RIVETING.

| STRAKES. | Edges. State if joggled? No. Single or Double. | Rivets. Diam. (Inches.) | Rivets. Spacing cr. to cr. (Inches.) | Butts. No. of Rows of Rivets. | Rivets. Diam. (Inches.) | Rivets. Spacing cr. to cr. (Inches.) | Strapped or Lapped. |
|---|---|---|---|---|---|---|---|
| Flat Plate Keel | Double | 3/4 | 3 | Treble Double | 3/4 | 2 5/8 | Lapped |
| " Dblg. (if any) | | | | | | | |
| Bottom Plating, No. of Strakes 3 | Single | 5/8 | 2½ | Double | 5/8 | 2 3/8 | Lapped |
| Bilge Plating, No. of Strakes 1 | " | " | " | " | " | " | " |
| Side Plating, No. of Strakes 2 | " | " | " | " | " | " | " |
| ~~Upper Deck, Sheer-strake in Wells~~ | " | 3/4 | 3 | " | 3/4 | 2 5/8 | " |
| Upper Deck, Sheer-strake ~~in Bridge~~ | " | " | " | " | " | " | " |
| Strake below Sheer-strake in Wells | | | | | | | |
| Strake below Sheer-strake in Bridge | | | | | | | |
| Poop Side Plating | | | | | | | |
| Bridge Side Plating | | | | | | | |
| Forec'tle Side Plating | | | | | | | |

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 4 (also W.T. Deniron at Frame No. 35)

" Deck next below ✓

As per Rule 3 ✓

| | Plating Thickness. | Stiffeners. Vertical. Scantlings. | Stiffeners. Vertical. Spacing. | Stiffeners. ~~Horizontal.~~ Scantlings. | Stiffeners. ~~Horizontal.~~ Spacing. |
|---|---|---|---|---|---|
| **MIDSHIP BULKH'D,** Upper tween decks at frame | ·50 | 5/16 | 6×3×·34 | 6 | 24" |
| " " Second No. 55 | ·50 | 5/16 | 6×3×·34 | 6 | 24 |
| " " Third No. 32 | ·50 | 5/16 | 6×3×·34 | 6 | 24" |
| " " Holds No. 35 | ·34 | 6·30 | 6×3×·44 | 6 | 24 |
| **COLLISION** " (~~in Hold~~) | ·40 | ·26 | 7×3×·36 | 6 | 24" |
| **AFTER PEAK** " " | ·50 | ·26 | 4×3×·30 | L | 30" |

## FORGINGS and CASTINGS.

| | Casting or Forging. | Scantlings. | Maker's Name. | Any departure from approved plans to be noted. |
|---|---|---|---|---|
| **KEEL, Bar** | ✓ | " " | | |
| **STEM** rolled Steel | | 6×1¼ | | |
| **STERN FRAME** Propeller Post | forged | 5¾×3¼" | Th Clyde S&I Co | |
| **STERN FRAME** Rudder " | iron | 5½"×3¼" | | |
| **RUDDER—A×D** | 48·06 | | | |
| **Speed of Vessel** under 10 knots | | | | |
| **RUDDER** mainpiece at head | forged iron | 4" dia | | |
| " " heel | | 3" | | |
| " how constructed | 4 arms keyed to main piece | | | |
| " double or single plate | single ·65 | | | |
| " coupling, vertical or horizontal | none | | | |

**STEEL.** Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) David Colville & Sons Lanarkshire Steel Works. Calderbank Steel Works. James Dunlop. OH.

Has the Steel been tested as required by the Rules? Yes

EQUIPMENT No. 5993 LETTER ✓

## 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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61617 | 1st Bower ✓ | 8 | 3 | 4 | Stockless | | | 10 | 17 | 2 | 0 | | Byers Type | ✓ Tipton | 26/10/28 WAD |
| 61620 | 2nd " ✓ | 8 | 3 | 7 | " | | | 10 | 17 | 2 | 0 | opt | " | ✓ " | 30/10/28 " |
| 61621 | 3rd " ✓ | 8 | 2 | 2 | " | | | 10 | 12 | 2 | 0 | | " | ✓ " | 29/10/28 " |
| 61622 | ~~Collective weight~~ | 8 | 2 | 4 | " | | | 10 | 12 | 2 | 6 | | " | ✓ " | 29/10/28 " |
| | Stream ✓ | | | | | | ✓ | | | | | | | | |

## 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. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64021 | 60 | 15/16 | 15.16 | 23.14 | 28.3.17 | | | | SL | ✓ Tipton | 24/10/28 WAD |
| 64022 | 60 | " | " | " | 28.3.22 | opt | | | " | ✓ " | 24/10/28 " |
| 64023 | 60 | " | " | " | 28.3.0 | | | | " | ✓ " | 30/10/28 " |
| 64024 | 60 | " | " | " | 28.3.16 | | | | " | ✓ " | 30/10/28 " |
| | | Cir. | | | | | | Cir. | | | |
| Iron Stream Chain or Steel Wire | ✓ | ✓ | ✓ | ✓ | | | | | | | |

## 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 | 75 | 2½ Sw | 12½ | opt | |
| Hawsers & Warps | 90 | 2 Sa | 7 | | " |
| " | | | | | |
| " | | | | | |

**Steering Gear, Steam** Jas Reid & Sons Ld Paisley **Steering Gear, Hand** Teller with relieving gear

**Boats** 2 life boats **Steering Chains,** Size and Test 5/8" 4 5/8 tons **Windlass** J & J McOnie. Govan

**Ceiling in ~~Holds~~ Crew space,** thickness and material 2" pitch pine **Cargo Battens,** thickness, material and spacing ✓

**Cargo Hatchways.**—(Upper Deck) — **Thickness of Hatches**

Size of **No. 1 Hatchway** (Forward) — **No. 2** — **No. 3** — **No. 4** — **No. 5** — **No. 6** —

Number of **Shifting Beams** and/or **Fore** and **Afters** —

HENRY ROBB, LIMITED.

*Builder's Signature* Robert Crawford Director.

**GENERAL DECLARATION.** *It should be stated (a) whether the vessel 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.*

This Vessel has been built in accordance with the Approved Plans and in general conformity with the Rules. The material & workmanship are good. The Fore & After Peaks, the Fuel Water & Buoyancy Tanks, the Bulkheads and decks have been tested in accordance with Rule requirements with satisfactory results, & the hand pump & steering gear & Windlass have been seen in good working order.
The Hopper Well is fitted at bottom with doors & the Vessel is equipped with two cranes for grab dredging. The freeboard marks have been cut upon wood chocks (which are bolted to iron fenders) and Verified. The Vessel has been prepared for a Voyage to Chung-Wang-Tan, Northern China, & a report on Survey in connection with Superintendent's made is enclosed herewith, also a report on Forgings, also the following Plans:- Midship Section, Profile & Decks. Bulkheads. Stern Post & Rudder. Pumping Plan.

The amount of Entry Fee ..... £ 3.0.0
Freeboard 2.15.0
Special Survey Fee.... £ 42.11.0
*Travelling Expenses, if any* £ ✓ : :

Fees applied for, 9-2-1929
Received by me, 13/2/1929

I am of opinion the Vessel should be Classed + 100 A1 "Twin Grab Hopper Dredger" "Strengthened for navigation in ice"

State whether the Vessel has been built under Special Survey yes

*Signature* Evan Edwards.
*Surveyor to Lloyd's Register of Shipping.*

Certificate ~~to be~~ sent to Hull Mchy " Leith Gls. Date of issue 15/2/29

*Committee's Minute* FRI. 15 FEB 1929

*Character assigned* + 100 A1 Twin Grab Hopper Dredger

Lloyd's A & C P + L.M.C. 2.29 Og

Write Gls Strengthened for Navigation in Ice

*The Surveyors are requested not to write on or below the Committee's Minute.*



2/2

**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.*)

| | | Anchor Cert. No. | cwt qr lb | | |
|---|---|---|---|---|---|
| Particulars of **Drop Test** of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test. | ~~1st Bower~~ | (61617) | 5-0-4 | KH 4713 | 28.6.27 |
| | ~~2nd~~ " | (61620) | 5-0-2 | " 4714 | " |
| | ~~3rd~~ " | (61621) | 5-0-20 | " 4716 | " |
| | | (61622) | 5-0-24 | " 4718 | " |

**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 is joined to the B.D., this should be distinctly stated ✓

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

Official No. 160821; Signal Letters ✓ Is bottom of Vessel coated with cement yes 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, | | | Fore peak tank, | | |
| Double bottom, under Engines and Boilers, | | | After peak tank, | | |
| Double bottom, if under Engines only, | | | Deep tank, aft Buoyancy Tank Pride | | 10 |
| Double bottom, if under Boilers only, | | | Deep tank, forward, " " S " | | 10 |
| Double bottom, forward, | | | Other tanks, if fitted, | | |
| | Total capacity of double bottom | | (If necessary, furnish further information by sketch.) | | |

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

Order for Special Survey No. 112

Date 18 July 1928

Dates of Surveys held while building: 1928 Septem 21, 24, 26. Octo 3, 5, 16, 19, 25, 30. Nov 6, 12, 21, 26. Dec. 6, 10, 17, 19, 27. 1929 Jan 4, 11, 24, 25, 28, 29, 30, 31. Feb 1, 2.

Total No. of Visits 28