

STEEL STEAMER OR MOTORSHIP.

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YESDate of completion of report 13th March 1943 Port of SUNDERLAND No. 33637Survey held at SUNDERLAND Date First Survey 20th May 1942 Last Survey 11th March 1943On the (State if Machinery fitted Single if Single, Twin or Triple Screw) SS "EMPIRE BARDOLPH" MACHINERY AMIDSHIPSState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) INTERMEDIATE BETWEEN FS & CSS State Type of Erections FOCSE ON UPPER DECKTONNAGE under Tonnage Deck ... 6555.97CLASS *100 A.1State if with freeboard as condition of Class YESBuilt at SUNDERLANDDo. of space or spaces between Tonnage Dk. and Upper Dk. ✓Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 425.0Launched 8th DECEMBER 1942 Yard No. 474Breadth (greatest moulded) B 56.0Builders SHORT BROTHERS LIMITEDDepth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 37.67Owners MINISTRY OF WAR TRANSPORT

Total

Gross Tonnage 7017.33Register Tonnage 4757.81Managers DONALDSON BROS. & BLACK, LTD.
(Where necessary to be entered in Reg. Book)Residence 14 ST VINCENT PLACE, GLASSGOW C.1.

REGISTERED DIMENSIONS.

FEET

Length 431.0Breadth 56.3Depth 35.2Framing Depth "d," at middle of length. See Sec. 3 (1d) 23.3Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.27Do. Long Bridge to top of keel 26'-7⁵/₈"Draught Moulded 26'-7⁵/₈"Port of Registry SUNDERLAND

If surveyed while building, afloat, or in dry dock

WHILE BUILDING

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships.....	31" ✓		Bracket Floors, Frame	✓	
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....	27" ✓		" " Reversed Frame.....	✓	
" " in peaks	24" ✓		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 ¹ / ₄ x 54 ✓	
Frame Amidships, Angle, <u>C or E</u>	12 x 3 ¹ / ₂ x 32.9 lbs ✓ TO 2 ND DECK, UPPER		" " top Angles	3 ¹ / ₂ x 3 ¹ / ₂ x 48 ✓	
" " Extends up to.....	ON ALTERNATES 8 H.E. BEAMS ✓		" " bottom Angles.....	4 x 4 x 54 ✓	
" " 1/10 TUNNEL RECESS ✓	10 x 3 ¹ / ₂ x 48 ✓		" " Gussets, spacing and scantling	6 x 3 ¹ / ₂ x 42 L TO SHELL ✓	
Reversed Frame Amidships, Angle	✓		" " 6 x 3 ¹ / ₂ x 42 L TO T.T. ✓		
" " Extends up to	✓		Side Girders, No. each side and thickness. ONE.		
Depth of Framing Girder.....	12" ✓		Margin Plate depth (excl. of flange) and thickness	36 x 54 ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>C or E</u>	8 x 3 ¹ / ₂ x 35 L ✓ FREE FORD OF 3/4" ✓ 5 x 3 ¹ / ₂ x 36.0 A.A.F.T. ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	6 x 6 x 44 ✓	
" " Second 'tween Decks, Angle, <u>C or E</u>	✓		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	6 x 6 x 44 ✓	
" " Third	✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	14 x 42 CONTINUOUS PL. 2 ¹ / ₂ ✓	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem AT PANTING AREA.....	12 x 3 ¹ / ₂ x 32.9 lbs ✓ 15 x 4 x 40 ✓		" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	17 x 42 do do 2 ¹ / ₂ ✓	
" " in Peaks, Angle or <u>C</u>	8 x 3 ¹ / ₂ x 35 L ✓ UPPER OK FOCSE ON ALTERNATES ✓ 7/8 x 6 x 63/32 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	95 x 44 ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	✓		INNER BOTTOM PLATING.		
State if Frame Joggled.....	YES ✓		Breadth and thickness of Middle Line Strake...	7 ¹ / ₄ x 50 ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	YES ✓		Thickness of remainder in Holds	44 52 1/10 HATCHES ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES ✓		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	8 x 3 ¹ / ₂ x 42 L ✓	
Height of Brackets at side above base line at toe of frame.....	✓		" " in way of Bridge, Angle, <u>C or E</u>	✓	
Middle Line Keelson, on Floors, Angles, <u>C or E</u>	✓		" " Spacing	EVERY FRAME	
" " Through Plate or Inter-costal Plate	✓		Second Deck, amidships, Angle, <u>E or C</u>	9 x 3 ¹ / ₂ x 36 L ✓	
" " Foundation Plate on Floors	✓		" " Spacing	EVERY FRAME	
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, <u>C or E</u>	✓	
Side Keelsons, No. each side.....	✓		" " Spacing.....	✓	
" " thickness of Inter-costal Plate.....	✓		Fourth Deck, amidships, Angle, <u>C or E</u>	✓	
" " Angles	✓		" " Spacing.....	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, <u>C or E</u>	✓	
Solid Floors, thickness and spacing	42 EVERY FRAME ✓		" " Spacing.....	✓	
" " Are Frame and Reversed Frame joggled?	YES ✓		Bridge Deck, Angle, <u>C or E</u>	✓	
Bracket Floors, breadth and thickness at middle line	✓		" " Spacing.....	✓	
" " breadth and thickness at margin plate	✓		Forecastle Deck, Angle, <u>E or C</u>	6 x 3 x 44 L - 9 x 3 ¹ / ₂ x 42 L ✓	
			" " Spacing.....	EVERY FRAME	

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.
PILLARS, No. of Rows	ONE		Stringer Plate, breadth and thickness in way of Bridge	✓	
" in 'tween Decks, Size and Spacing	✓		Thickness of Plating abreast Deck openings in way of Wells	36 ✓	
" " " " " "	✓		Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
" in Holds " " " "	✓		Thickness of Plating within line of openings..	34 ✓	
" " " " " "	✓		If Sheathed, material and thickness.....	✓	
Centre Line Bulkhead.	TWEEN DECKS { 5x3+32 OA AND 7x3+96 @ 2 FR. SPACES ✓		Third Deck.		
Stiffeners and Spacing	HOLDS { 12x3 1/2 x 3 1/2 x 30 + 9 lbs L ✓ 8 1/2 x 3 1/2 x 7 1/2 @ 2 FR. SPACES ✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	TWEEN DECKS 26 HOLDS 30		If Plated, state thickness	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	65 5/8 x 65 ✓		If Plated, state thickness.....	✓	
" " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells	6 x 6 x 60 ✓		Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating abreast Deck openings } in way of Wells	60 & 55 ✓		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓		Bridge Deck.		
Thickness of Plating within line of openings...	40 ✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness.....	✓		Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells	82 3/4 x 38 ✓		Stringer Plate, breadth and thickness.....	35 x 36 ✓	
			Plating, Sheathing, material and thickness...	32 50 UNDER W/LASS ✓	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? NO ✓	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.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel.....	54 ✓	80 ✓	70 ✓	73 ✓		DOUBLE ✓	7/8 ✓	3 3/4 ✓	3R ✓	7/8 ✓	4 ✓	ALTERNATE BUTTS WELDED DOUBLE STRAPS.	
„ Dblg. (if any) ✓													
Bottom Plating, No. of Strakes A.C.R. } B ✓		60 ✓	70 ✓	52 ✓		do ✓	7/8 ✓	3 3/4 ✓	4R ✓	7/8 ✓	3 1/2 ✓	D SINGLE STRAPS A-B-C LAPPED ✓	
Bilge Plating, No. of Strakes E ✓		64 ✓	57 ✓	52 ✓		do ✓	7/8 ✓	3 3/4 ✓	4R ✓	7/8 ✓	3 1/2 ✓	SINGLE STRAPS ✓	
Side Plating, No. of Strakes ... F, G H ✓		60 ✓	45 ✓	45 ✓		do ✓	7/8 ✓	3 3/4 ✓	3R ✓	7/8 ✓	3 5/8 ✓	LAPPED ✓	
Upper Deck, Sheer- strake in Wells ✓	77 1/2 ✓	73 ✓	60 ✓	46 ✓		do ✓	7/8 ✓	3 3/4 ✓	4R ✓	1 ✓	4 ✓	LAPPED ✓	
Upper Deck, Sheer- strake in Bridge ... ✓													
Strake below Sheer- strake in Wells ✓	83 1/4 ✓	65 ✓	46 ✓	46 ✓		do ✓	7/8 ✓	3 3/4 ✓	3R ✓	7/8 ✓	3 5/8 ✓	LAPPED ✓	
Strake below Sheer- strake in Bridge ... ✓													
Poop Side Plating..... ✓													
Bridge Side Plating..... ✓													
Forecastle Side Plating			40 ✓			SINGLE ✓	3/4 ✓	3 ✓	1R ✓	3/4 ✓	2 5/8 ✓	LAPPED ✓	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— *For Record: 7 BH (Call to Work 6 to 2nd dk) 6*
 Extending to Upper Deck (Sec. 3 c) *divisional W.T. BHs in 'ween dks* 7
 „ Deck next below *Closing of openings: BH 58 Trused W.T. door*
 As per Rule *BH 109 30" plate $\frac{3}{4}$ " bolts $3\frac{3}{4}$ " apart* 7
Per 4th BH

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		✓		
STEM		ROLLED M.S. 10" x 2 1/2"	✓	
STERN FRAME {	Propeller Post	M.S. FABRICATED AS PER		
{	Rudder	APPROVED PLAN	DORMAN LONG & CO	
Speed of Vessel		11 KNOTS	✓	
RUDDER—Type		ORDINARY		
" A x D		357	✓	
" Diam. of head		10"	✓	
" Mainpiece at top pintle		10"	✓	
" " heel		7 1/2"	✓	
" how constructed		FABRICATED	✓	
" double or single plate		DOUBLE	✓	
" coupling, vertical or		VERTICAL	✓	
" horizontal				

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,		Upper 'tween decks	.26 ✓	5x3x42 ✓	30" ✓	✓	✓
" "		Second " ✓	✓				
" "		Third " ✓	✓				
" "		Holds ... N ^o 87 ✓	.45-26 ✓	12x3½x329 lbs ✓	30" ✓		
COLLISION	"	(in Hold) N ^o 161 ✓	.53-29 ✓	10x3½x44 ✓	24" ✓	F.P.T.T & 25.B BEAMS.	
AFTER PEAK	"	" ... N ^o 9 ✓	.48-30 ✓	9x3½x38 ✓	24" ✓	A.P.T.T & 25.B BEAMS	
						2-9x3½x38 ✓	✓

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth*
Messrs Cargo Fleet, Consett, South Durham, Appleby Gillingham, Dorman Long
Skinningrove.
Has the Steel been tested as required by the Rules? *YES*

EQUIPMENT No. 40052.75										LETTER at		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.					
1083	1st Bower	68	0	7	✓			52	15	2	14	✓	68	Stockless Hugley Challenge type	N. Hugley & Sons	LPH-N 17-9-41 JAR
1091	2nd "	67	3	7	✓			52	12	2	0	✓	68	"	"	LPH-N 17-9-41 JAR
	3rd "												58 1/2	"	"	
	Collective weight												194 1/2			
1534	Stream	19	0	21	4	3	7	20	1	3	14	✓	19	Steel stock	N. Hugley & Sons	LPH-N 24-3-42 JAR

CHAIN CABLES.										HAWSERS 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.		
	Fathoms.	Ins.	Stations.	Break-ing.	Supplied.	Per Rule.		Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.	
3126	270	2	100	141	574-2-0	720	34	270	25	TAYCO	St. Taylor & Son	LPH-N 23-10-42 JAR	TOWLINE	120	4 3/4	64.6	120	4 3/4	
														2090	2 3/4	15.2	2090	2 3/4	
														2075	3 1/4	21.7	2090	2 3/4	
														90	4 3/4	64.6			
														2075	2 3/4	15.2			
														As per Specification					

Steering Gear, Type (Power or hand) DONKIN (STEAM) Alternative Means of Steering Block and tackle from after winch

Steering Chains (Size and Test) TELE MOTOR Windlass EMERSON WALKER L^D Boats 2-24 ft 20 - 33 do

Ceiling in Holds, thickness and material 2 1/2 W.W. AT BILGES ONLY Cargo Battens, thickness, material and spacing NOT FITTED

Cargo Hatchways.-(Upper Deck) STEEL PLATES & ANGLES Thickness of Hatches 2 1/2 AT NO. 4; ELSEWHERE 2 3/8

Size of Hatchways No. 1 (Fwd.) 31'6" x 20' No. 2 31' x 20' No. 3 31' x 20' No. 4 12'11" x 20' No. 5 31' x 20' No. 6 31' x 20'

Number of Shifting Beams and/or Fore and Afters 5 5 5 1 5 5

Builder's Signature FOR SHORT BROTHERS, LIMITED
Henry S. Short 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 NO

(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 (where required to be inserted in the Notation).

The vessel has been built in accordance with the approved plans, the Secretaries letters and the Society's Rules and embodies pre-fabricated parts. The materials and workmanship are good. The double bottom, fore and after peak and deep tanks have been tested under water pressure and found good. The decks, upper, second and fore-castle, bulkheads, tunnel w.c. doors in casings and ash chute have been hose tested and found good. The steering gear, secondary means of steering and windlass have been tested whilst moored in the river. The bilge suction and hand pumps have been tested and found good. No cargo battens have been fitted but cleats supplied.

The third bower anchor has not been supplied.

Hatch covers fitted at second deck except at No. 1, 6, and aft end of No. 4.

The preboard markings have been verified and cut in on the vessels sides.

The amount of Entry Fee..... £ 10: 0: 0: Fees applied for, 3 MAR 1943

Special Survey Fee..... £ 375 8: 6: Received by me, 18

Specification 93.17

Travelling Expenses, if any £ : : 19

I am of opinion the Vessel should be Classed 100 A.1. (with freeboard)

State whether the Vessel has been built under Special Survey Yes Signature W. Wilson

Certificate to be sent to SUNDERLAND Date of issue 22/10/43

Committee's Minute WED. 31 MAR 1943

Character assigned + 100 A.1

With freeboard

Lloyd's Arch. 02.

Dele E.S.D.

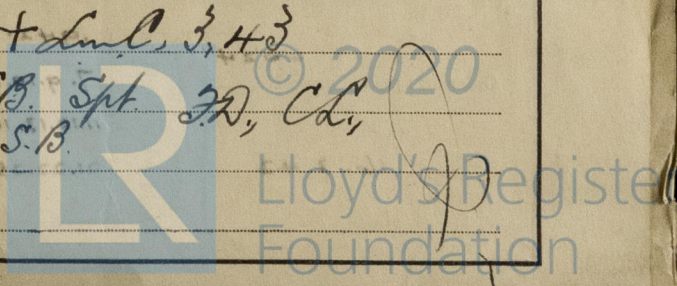
note for S.R.L.

Mike Ave

25.8 Spt 20, Ca.

100 S.B.

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



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.)

SISTER VESSELS:—

S.S. "EMPIRE NEWTON"	SUNDERLAND REPORT NO	33287
S.S. "EMPIRE STORY"	do	do
S.S. "EMPIRE KEATS"	do	do
S.S. "EMPIRE SOUTHEY"	do	do
S.S. "EMPIRE WEBSTER"	do	do
S.S. "EMPIRE ENVOY"	do	do

The following fabricated parts made at structural engineering works have been embodied in the vessel:—

Centre girder, keel, floor, bulkheads, tank margin, bilge brackets, continuous gussets, hatch coaming, strong beams, shell plates (midship body), tank top plating, deck plating, side frames, deck beams, bulb angle intercostals, intercostal under engine and boilers, hatch beams, deck girders, engine and boiler casings, saloon and bridge, boat deck and side houses, 4 W. tanks, tunnel, strong beam and side webs, stringer angles, side bunkers, coal hatches, cabin store, galley and engine room skylights, masts and derrick posts.

Numbers 2, 3 and 5 holds and tween decks have been fitted to carry refrigerated cargo.

PARTICULARS OF ELECTRIC WELDING (if employed) *W. Y. bulkhead stiffener brackets to tank top; tank side gussets to tank top; centreline bulkhead to tank top; fore and after peak tank top to shell; ventilator coamings to deck; second deck stringer cheeks to shell and deck; second deck girder rider plate to girder gusset plate.*

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

D.F. ✓ "SIX DIVISIONAL W.T. BULKHEADS IN 'TWEEN DECKS" ✓ R.M.C.

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

1st Bower.	42-1-25 ✓	J.D.	3749	10-7-41
2nd "	42-1-10 ✓	J.D.	3750	15-7-41
3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 39.5 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. ✓

Official No. 169109 Signal Letters ✓ Extreme Breadth over Belting ✓ Over-all Length 446.5 ✓
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 2 DECKS (STEEL) ✓

Parts of Bottom of Vessel coated with cement or approved composition *cement in double bottom tanks, peak tanks, and bilges* ✓

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	62.0	236	Fore peak tank,	23.5	190 ✓
Double bottom, under Engines and Boilers,	46.5	217	After peak tank,	20.0	110 ✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	43.91	354 ✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	14.00	258 ✓
Double bottom, forward,	209.75	839	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	318.25	1292	(If necessary furnish further information by sketch.)	✓	✓

Order for Special Survey No. 6024

Date 16.3.42

Dates of Surveys held while building

1942. May 20. June 11, 16, 25. July 24, 29, 30. Aug. 4, 6, 10, 11, 12, 19, 21, 24, 26, 27, 31. Sep. 2, 3, 4, 7, 9, 10, 11, 15, 18, 21, 28, 29. Oct. 5, 8, 9, 13, 14, 15, 16, 17, 20, 21, 22, 26, 27, 28, 29, 30, 31. Nov. 2, 3, 4, 5, 6, 7, 9, 11, 12, 13, 14, 16, 17, 18, 19, 23, 24, 25, 26, 28. Dec. 1, 3, 4, 5, 8, 9, 14, 17, 21, 22, 23, 1943. Jan. 5, 6, 11, 13, 15, 19, 21, 22, 25, 27, 28, 29, 30. Feb. 1, 2, 4, 5, 9, 11, 12, 16, 19, 20, 22, 23, 24, 25, 26, 27. Mar. 1, 2, 3, 4, 5, 8, 10, 11.

Total No. of Visits 115