

RECEIVED

8 SEP 1950

IN D.O.

STEEL STEAMER OR MOTORSHIP.

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 6th September, 1950 Port of Göteborg No. 17700

Survey held at Göteborg Date First Survey 11th January Last Survey 15th August 1950

On the (State if Machinery is Aft and if Single, Twin or Triple Screw) Single Screw Motor Tanker "E T N E F J E L L" (Machinery fitted aft)

State Type (Full scantling, Complete Superstructure or without Tonnage Openings) Full scantling State Type of Erections Poop, Bridge and Forecastle

TONNAGE under Tonnage Deck 8878.69

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

Total ---

Gross Tonnage 9832.39

Register Tonnage 5752.80

REGISTERED DIMENSIONS.

FEET

Length 498.6

Breadth 65.3

Depth 37.0

CLASS +100A1

State if with freeboard as condition of Class No

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 490.0

Breadth (greatest moulded) 65.0

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck See Sec. 3 (1c) 37.0

D for Numerals 36.0

1st Longitudinal Number (L x D) 17640

2nd Numeral L x (B + D) 49490

Framing Depth "d," at middle of length. See Sec. 3 (1d) ---

Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.24

Do. Long Bridge to top of keel ---

Draught Moulded 28' - 6.3/4"

Built at Göteborg

Launched 15th May, 1950 Yard No. 397

Builders Eriksbergs Mek. Verkstads A-B.

Owners A/S Dovrefjell

Managers Olsen & Ugelstad
(Where necessary to be entered in Reg. Book)

Residence Oslo

Port of Registry Oslo

~~Not~~ surveyed while building, afloat, & in dry dock

Yes (Date of undocking 31/7 1950).

FRAMES, DOUBLE BOTTOM AND BEAMS.

	MM. IN SHIP.	Any Departure from Approved Plans to be Noted.		MM. IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships <u>See sep. sheet</u>			Bracket Floors, Frame		
" " <u>fwd. of fwd. cofferd</u>			" " Reversed Frame		
" " <u>in peaks</u>			" " Vertical Struts		
" " <u>in engine room</u>			" " <u>After Part</u>	2429 12	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1100 14	
Frame Amidships, Angle, [or]			" " top Angles	5.5 5.5	
" " Extends up to			" " bottom Angles		
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	2. 19 & 15	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	Tank top flush 14.0	
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]			" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
" " Second 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Third " " " "			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " from 1/2 len. for'd. to 15% len. from Stem			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " in Peaks, <u>After Peak</u>	203 102 11		INNER BOTTOM PLATING, in engine sp.		
" " <u>Fore Peak</u>	203 102 11		Breadth and thickness of Middle Line Strake	14	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships			Thickness of remainder	14	
State if Frame Joggled	No		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	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		Uppermost Continuous Deck, amidships in Wells, Angle, [or]	Longitudinal	
SINGLE BOTTOM.			" " in way of Bridge, Angle, [or]	framing. See	
Floors, Depth and thickness at mid-line in Holds			Spacing	separate sheet	
Height of Brackets at side above base line at toe of frame			Second Deck, amidships, Angle, [or]		
Middle Line Keelson, on Floors, Angles, [or]			Spacing		
" " Through Plate or Inter-costal Plate			Third Deck, amidships, Angle, [or]		
" " Foundation Plate on Floors			Spacing		
" " Flat Plate Keel Angles			Fourth Deck, amidships, Angle, [or]		
Side Keelsons, No. each side			Spacing		
" " thickness of Inter-costal Plate			Poop Deck, Angle, [or]		
" " Angles			Spacing		
DOUBLE BOTTOM, in engine space.			Bridge Deck, Angle, [or]	Longitudinal	
Solid Floors, thickness and spacing	12 ev. frame 10 at side		Spacing	framing. See	
" " Are Frame and Reversed Frame joggled?	No		Forecastle Deck, Angle, [or]	separate sheet	
Bracket Floors, breadth and thickness at middle line	None fitted		Spacing		
" " breadth and thickness at margin plate					

PILLARS AND DECKS.

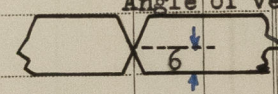
		MM. XXXXXX IN SHIP.	Any Departure from Approved Plans to be Noted.	MM. XXXXXX IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows					
„ in 'tween Decks, Size and Spacing					
„ „ „ „ „					
„ in Holds „ „ „					
„ „ „ „ „					
Longitudinal XXXXXX Bulkheads, Stiffeners and Spacing	Horiz. corrug.				
Plating, thickness of					
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, XXXXXX thickness XXXXXX		19.5 + 0.5	19.5		
„ „ „ „ in way of Bridge		Angle = 45°			
„ Angle in Wells Welded		12			
Thickness of Plating abreast Deck openings } XXXXXX		19.5			
Thickness of Plating abreast Deck openings } in way of Bridge.....		---			
Thickness of Plating within line of openings...		19.5			
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, XXXXXX thickness.....				9.0	
Plating, Sheathing, material and thickness ...				6.5. 2 1/2" wood. (Oregon pine)	
Bridge Deck.					
Stringer Plate, XXXXXX thickness.....				10.5	
Plating, XXXXXX thickness				9.0	
Forecastle Deck.					
Stringer Plate, XXXXXX thickness.....				9.5	
Plating, Sheathing, XXXXXX thickness...				17.0 - 9.0	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		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.	
Flat Plate Keel.....	2000	23.5	21.0	21.0								
		(23.5+1.5 Nos. 52-62)										
„ Dblg. (if any)												
Bottom Plating, No. of Strakes ...3.....		18.0	13.0	14.0 14.5								
Bilge Plating, No. of Strakes ...1.....		17.5	16.0	14.5								
Side Plating, No. of Strakes ...3.....		17.0	15.5	12.5								
Upper Deck, Sheer-strake in Wells.....												
Upper Deck, Sheer-strake XX XXXX ...	2120	24.0	15.0	12.5								
Strake below Sheer-strake in Wells.....				27.5								
Strake below Sheer-strake in Bridge ...				29.0								
Poop Side Plating.....				10.5								
Bridge Side Plating.....		11.0										
Forecastle Side Plating			11.0									

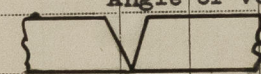
Edges and butts

Angle of vee = 50° ✓



Plates above 22 mm. ✓

Angle of vee = 50° ✓



Plates 22 mm. and below. ✓

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 10. 4 additional bhds in ctr. tanks

Deck next below 1 (aft peak bulkhead)

As per Rule 8

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar		Flat plate keel		
STEM		Rolled steel plate		
		As per A-B.		
STERN { Propeller Post	Cast.	appd. Motala		
FRAME { Rudder "	Forg.	plan Verkst.		
Speed of Vessel		14 knots ✓		
RUDDER—Type		Balanced streamline		
" A × D.....		13.79 M ³ ✓		
		A-B.		
" Diam. of head		300 mm. Motala		
" Mainpiece at top pintle		Tube 432/402 as		
		Verkst.		
" " heel		per approved plan		
" how constructed		Welded ✓		
" double vertical plate		15 mm.		
" coupling, vertical or		Horizontal		
" horizontal				
Vessel (state process of manufacture)		Open hearth.		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture).

Bethlehem Steel Company, Worth Steel Company, Domnarfvets Jernverk.

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

M/S "ETNEFJELL", of Oslo.

Rpt. 1*.

Gothenburg First Entry Report No. 17700

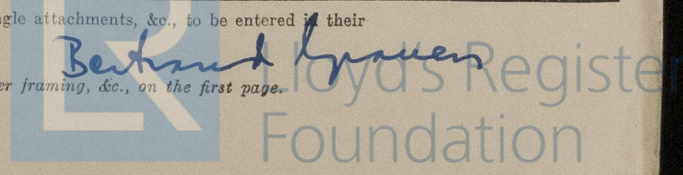
Particulars of Longitudinal Framing.

7 Sep 1950

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			Welds		WELDING.	
	In Ship.			In Ship.			Per Rule or as approved			Per Rule or as approved			in Longitudinal Frames.		on each side of Transverses and Bulkheads.	
	MM.			MM.									Diam.	Speng.	Number.	Diameter.
aming xxxxxx																
Superstructures				F 153	76	9										
ames in xxxxxx	180	100	10	A 153	89	10.5										
ames from Uppermost Continuous				F 150	90	10	170	90	10							
Deck (25) No. 1	178	102	11	A 180	100	10	180	90	11	F 200	90	9				
(24) " 2	178	102	11	A 180	100	10	180	90	11	A 170	90	10			4.5	4.5
(23) " 3	203	102	11	F 180	100	11				F 200	90	9				
(22) " 4	229	102	13	A 180	100	10	200	90	10	A 170	90	10				
o.on plans (21) " 5	274	11	51x19	F 180	100	11.5				F 200	90	9				
(20) " 6	274	11	76x20	A 180	100	10	250	90	10	A 170	90	10				
(19) " 7	274	11	89x20	F 180	100	11.5	250	90	12	F 225	90	10				
(18) " 8	274	11	102x20	A 203	102	11	250	10	85x20	A 225	90	10				
(17) " 9	280	11	108x20	F 275	11	65x19	250	10	100x20	A 225	90	10.5			5	5
(16) " 10	293	11	108x20	A 203	102	11.5	250	10	115x20	F 250	90	12	4.5	4.5		
(15) " 11	299	11	108x20	F 275	11.5	65x19	260	10	120x20	A 250	90	13.5				
(14) " 12	312	11	108x20	A 227	102	13	270	10	120x20	F 250	90	11				
(13) " 13	338	11	120x20	F 295	12	90x20	270	10	120x20	A 250	90	12				
(12) " 14	380	11	140x25	A 270	11	63x19	280	10	120x20	F 250	90	13				
(11-8) 15-18	425	11	140x25	F 300	11.5	105x20	290	10	120x20	A 250	90	14				
(6-1) 20-25	425	11	140x25	A 270	11.5	120x21	330	10	120x20	F 270	10	100x20			6	6
(Amidships)	790	846		F 290	11.5	105x21	420	11	140x25	A 250	90	14				
(At Ends)	790	846		A 270	11	120x21	425	11	140x25	F 280	10	120x20			4.5	4.5
Top Longitudinals	---			F 280	10	120x20				A 280	10	120x20				
Bottom	---															
adinals (Amidships)	---															
(At ends...)	---															
sverses.																
Depth and Thickness	350	10		F 400	10											
Plate	100	21		A 350	10											
Face xxxxxx				F 50	25											
Weld xxxxxx	4.4			A 90	25											
to Shell*.....				F 700	11											
Depth and Thickness	800x11.5 to 600x10.5			A 900	12											
Face xxxxxx Plates	As per appd. plan			F 130	25											
Weld xxxxxx	6 to 5.5			A 300	25											
to Shell*.....																
Depth and Thickness	1800	13														
Face xxxxxx Plate	406	30					400	30								
Weld xxxxxx	6.5															
to Shell*.....																
" " Back Bars																
Brackets	As pr appd. plan															
Spacing of Transverse Frames...	3460															
* State if joggled or liners.																
itudinal	As fitted			As approved						Spacing.						
ms xxxxxx	Bridge Deck	127	76	10	130	65	8			760-765						
xxxxxx	Forecastle	150	75	9.5	130	65	8			760-765						
xxxxxx	"	127	76	9	130	65	8			760-765						
xxxxxx	"	203	102	11	200	90	10			760-765						
xxxxxx	"															
Transverse Beams.																
Plats. MM.	325x10															
Face Angles. MM.	100x20															
Any departure from Approved Plans to be Noted.																
	400x10															
	270x10															
	1000x11															
	825x10															

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, &c., to be entered in their respective places provided for on the Report Forms.

NOTE.—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, &c., on the first page.



EQUIPMENT No. 51112 ✓												LETTER et ✓		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.	Cwts.					
4774	1st Bower	82	0	14	✓	—	—	—	60	0	0	0	✓	—	Britannic Cast Steel Head	Richard Sykes & Son	LPH-N 31.49 H. Murphy
4723	2nd „	81	2	7	✓	—	—	—	59	10	0	0	✓	—	—	—	LPH-N 31.48 H. Murphy
4771	3rd „	81	1	14	✓	—	—	—	59	10	0	0	✓	—	—	—	LPH-N 31.49 H. Murphy
	Collective weight	245	0	7	✓									244:2:0 ✓			
4687	Stream	25	0	7	✓	6	1	7	24	17	0	21	✓	25:0:0 ✓	Ordinary Forged Steel. El. welded	—	LPH-N 31.48 W.V. Norman

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.	
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
2834	M. 552.2	Ins. 2 1/4	Kgs. 129540	Kgs. 181356	Kgs. 41795	Kgs. 50100	M. 550	Ins. 2 9/16	Stud link special steel cable	Ramöns Bruks A-B.	Makers' works 23.3.50 T. Bulow	6 x 24 TOWLINE	Fathoms 130	Ins. 5 1/2	Tons. 84.4	Fathoms 130	Ins. 5 1/2
6 x 24 Stream Steel Wire	Fms. 120	Cir. 4 3/4	646 tons	---	---	---	Fms. 120	Cir. 4 3/4	Galv. steel wire	A/S Norsk Staaltang-fabrikk, Trondheim	Makers' works	6 x 24 HAWSERS & WARPS	4x100	3	25.7	4x100	2 3/4
																	6 x 12

Steering Gear, Type (Power or hand) Electro Hydraulic "Hastie" Alternative Means of Steering Double motors

Steering Chains (Size and Test) --- Windlass Steam, Pusnes Mek. Verksted, Arendal, Norway Boats 25'0" x 8'0" x 3'3" (motor)
23'0" x 7'7" x 3'0" (motor)

Ceiling in Holds, thickness and material None fitted Cargo Battens, thickness, material and spacing ---

Cargo Hatchways.—(Upper Deck) Oiltight hatches. Coamings 820 mm. Thickness of Hatches ---

Size of Hatchways No. 1 (Fwd.) --- No. 2 --- No. 3 --- No. 4 --- No. 5 --- No. 6 ---

Number of Shifting Beams and/or Fore and Afters ---

Builder's Signature

ERIKSBERGS MEK. VERKSTADS A.-B.
GÖTEBORG

[Signature] 1/9 1950

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. Motorship
 (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo Tanker 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 vessel is constructed to carry petroleum in bulk, and oil fuel in the double bottom tanks under the machinery, in the oil fuel bunkers situated at the forward end of the machinery space, in a tank forward of the after peak and in the forward deep tanks. The flash point of the oil fuel is above 150°F. Lubricating oil is carried in the centre portion of the engine room double bottom. The tanks, cofferdams, bulkheads and decks have been tested in accordance with the requirements of the Rules. The requirements of Section 20 of the Rules have been complied with. The freeboards have been marked and cut in on the vessel's sides. Windlass and steering arrangements have been tested under working conditions.

Convention Freeboard
 The amount of ~~XXX~~ Fee Kr. : 720:- Fees applied for, 6/9 1950
 Special Survey Fee Kr. 24250:-
 Sunday and Late Fees Kr. : 160:- Received by me, --- 19---

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed +100A1
Carrying Petroleum in bulk

State whether the Vessel has been built under Special Survey Yes

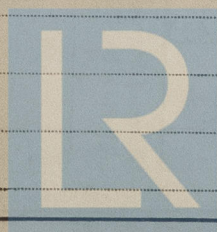
Certificate to be sent to Gothenburg Date of issue 2/10/50.

Signature *[Signature]*
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 22 SEP 1950
 Character assigned +100A1 Carrying Pet. in bulk.
8.50 50t.

+100A1 8.50 50t. (with endorsement)
228 143H.
C.L.

White 50t.
Note for S.R.L. (m)



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Lloyd's Register
 Foundation

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:

M/T "Koll",	Eriksbergs Mek. Verkstads A-B. Yard No. 343, Gothenburg F.E. Report No. 15177,
M/T "Havbör",	" " " " " " 344, " " " " 15324,
M/T "Svenör",	" " " " " " 345, " " " " 15425,
M/T "Olav Ringdal Jr",	" " " " " " 360, " " " " 16100,
M/T "Filefjell",	" " " " " " 375, " " " " 16401,
M/T "Kollskegg",	" " " " " " 392, " " " " 17290,
M/T "Granheim",	" " " " " " 393, " " " " 17367,
M/T "Kollstein",	" " " " " " 396, " " " " 17540.

As fitted plans, forwarded under separate cover:

Midship section
Longitudinal section and plans
Shell expansion

Certificates, forwarded separately:

Sternframe
Connecting piece
Rudder head
Steering gear
Rudder
Davits (2)

PARTICULARS OF ELECTRIC WELDING (if employed) Electrically welded.

Electrodes used: OK 48 P, OK 50 P, OK 52 P, OK Rapid, KB-4725, Union melt ARL C-25, Fusarc Seamarc.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book
Carrying Petroleum in bulk, Longitudinal framing, Electrically welded,
Cruiser stern, Echo sounding device, Direction finder, Gyro Compass,
Radar, Machinery aft.

RADAR Equipment (State if fitted) Yes
State Type or Pattern No. Model CR-101-A Serial 49284
State Name of Radiomarine Corporation of America.

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.
1st Bower Head: 50:3:0 R.L. 3920 17.11.49
2nd " 48:3:0 J.H.J. 9613 6.2.48
3rd " 49:3:14 R.L. 3919 17.11.49

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 100.5 ft., R.Q.D. — ft., Bridge 37.4 ft., Forecastle 48.0 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.
Official No. — Signal Letters L A D H Extreme Breadth over Belting — Over-all Length 518' - 4"
No. and Material of Decks 1 deck (Steel)
Parts of Bottom of Vessel coated with cement ~~compared to standard~~ Fore peak, After peak, Counter, Fresh water tanks.

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.	Salt Water Capacity. Tons.	Where Fitted.	Length. Feet.	Salt Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		145.0
Double bottom, under Engines and Boilers,			After peak tanks	26.0	171.0
Double bottom, if under Engines only,			Wing tank aft,	22.7	462.0
Double bottom, if under Boilers only,			Deep tanks forward,	27 31.0	545.0
Double bottom, forward,			Other tanks, if fitted, Counter	—	106.0
Total length (if continuous) and Capacity	86.3	243.0	(If necessary furnish further information by sketch.)	—	—

Lubricating oil in centre portion of engine space = 39.4 M³

Order for Special Survey No. 433

Date 1.11.1946.

Dates of Surveys held while building

1950: January 11, February 17, 27, March 1, 3, 6, 9, 14, 16, 17, 20, 22, 23, 27, 29, 31, April 4, 5, 19, 25, May 3, 8, 9, 10, 11, 13, 14, 15, 23, 31, June 1, 2, 5, 6, 7, 8, 9, 13, 15, 19, 22, July 4, 21, 25, 26, 27, 27, 27, 28, 28, 29, 29, 29, August 3, 7, 10, 11, 14, 15.

Total No. of Visits 59.

Lloyd's Register Foundation