

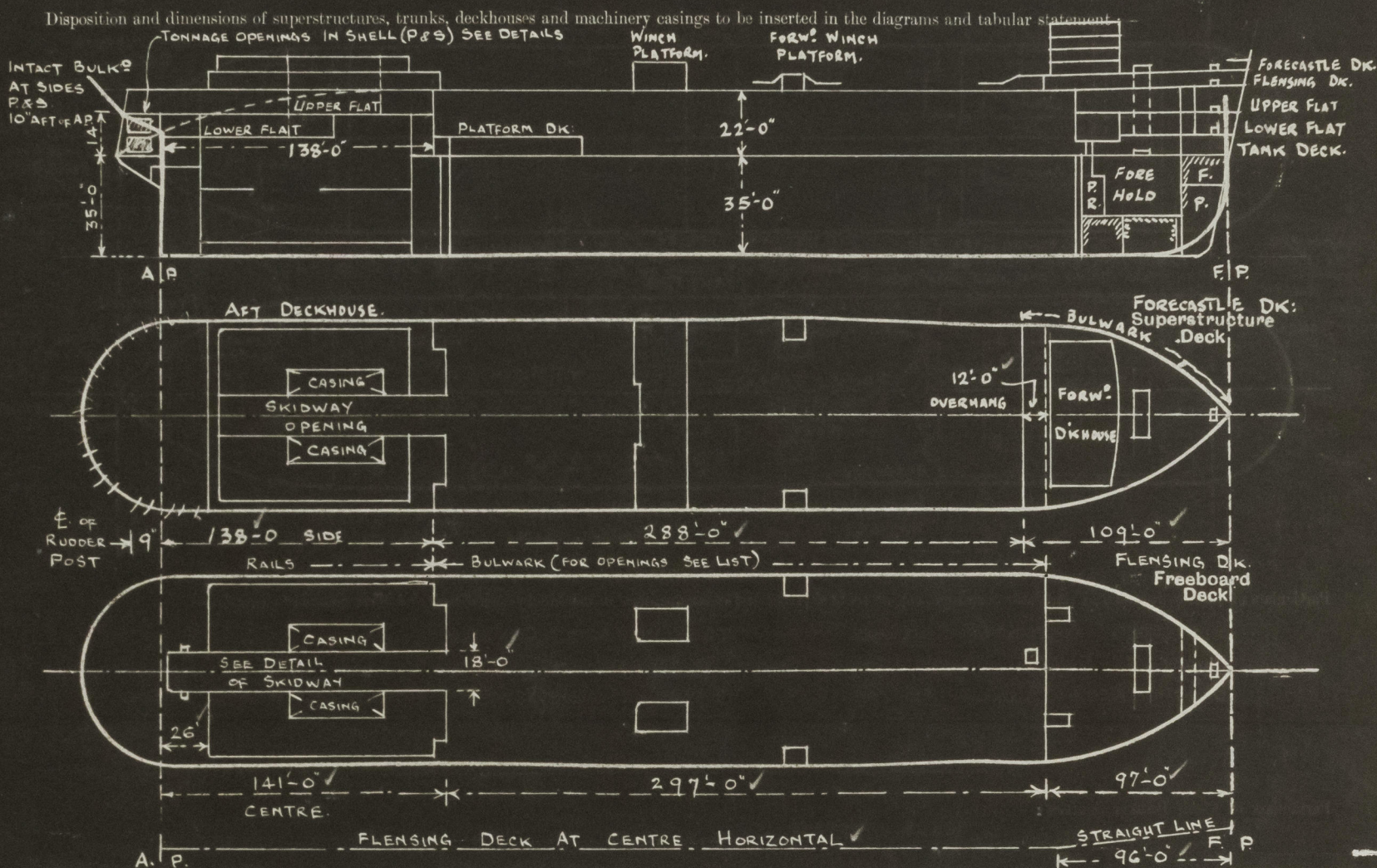
# Lloyd's Register of Shipping.

 Index No. **37610**  
 (For London Office only).

## SURVEYS FOR FREEBOARD. MOD. 17870.

(CONDITIONS OF ASSIGNMENT.)

FURNESB. S.B. CO. LTD YARD N° 388  
 Ship's Name **"NORHVAL"** Port of Survey **MIDDLESBROUGH**  
 Official Number **✓** Surveyor's Signature **H.C. Young**  
 Nationality and Port of Registry **NORWEGIAN, LARVIK.** Date of Survey **WHILE BUILDING.**



Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	✓							
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ...	✓							
Bridge, Forward Bulkhead ...	✓							
Forecastle Bulkhead ...	30"	30"	5" x 3" x 36" QA	30"	JOINTERS.	4 STEEL W.T.D. 5'-0" x 2'-6"	18"	8'-0"
Trunk, Aft ...	✓							
Trunk, Forward ...	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	SKIDWAY 50"	SIDES 50"	7" x 3" x 40" E	30"	BRKT'S AT TOP SCARPHED FOR	NONE	✓	8'-0"
Exposed Machinery Casings on Superstructure Decks ...	30" x 50"	36"	CONTINUOUS	30"	2'-0" AT BOTTOM	NONE	✓	8'-0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓							
Deckhouses on Flush Deck Ships ...	FORWARD 36" SIDES 34" AFT 34"	36" 30" 30"	5" x 3" x 30" 4" x 3" x 30" 4" x 3" x 30"	31" 30" 30"	BRKT'S 4 2	2 STEEL W.T. DOORS 5'-3" x 2'-0" 2 WOOD DOORS 5'-9" x 2'-6" 5'-9" x 2'-6"	16" 12" 12"	8'-0"

### Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	✓
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ...	✓
Bridge, Forward Bulkhead ...	✓
Forecastle Bulkhead ...	HINGED W.T. STEEL DOORS P&S MANIPULATED FROM BOTH SIDES TO FACTORY ENTRANCE & CREW ACCOMMODATION. ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Superstructure Decks ...	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓
Deckhouses on Flush Deck Ships ...	HINGED W.T. STEEL DOORS MANIPULATED FROM BOTH SIDES. HINGED WOOD DOORS

16" COAMINGS.  
 3, OFF TO FACTORY ENTRANCES  
 8, OFF TO ACCOMMODATION.  
 12" COAMINGS



RETAIN



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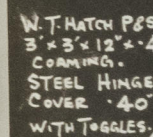
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NOT FOR

which would affect the seaworthiness of the ship:—



I

NONE FITTED

ON FLENSING DECK.

AMING

FORECASTLE DECK LED TO FORE HOLD. 4 off 18" DIA

PUMP ROOM.	1	12	36	34	
STORE ROOMS	1	12	36	34	
ACCOMMODATION (THERMOTANK)	2	28	116	40	MUSHROOM TOP. EFFICIENTLY STAYED.
		24 x 18	36	34	

LED TO MIDSHIP PUMP ROOM 2 - 20 - 8'-0" x 40" EFFICIENTLY STAYED.

BOAT	DECK	LED TO	ENGINE ROOM EXHAUST	2"	2 1/2"	2-6"	3/8"	MUSHROOM	10"
"	"	"	ACCOMMODATION (THERMO TANK)	4"	2-9"	2-6"	1/4"	"	"
"	"	"	ENGINE ROOM SUPPLY	2"	2 1/2"	DIA TRUNK	1/4"	"	"

AFTER " " " LACZORC EXHAUST. 2- 15 DIA 1 6 1 30

BULWARK DOUBLED. STEEL W.I. COVER 7/16 INCH WITH LOGGERS 14 X 22 (HINGED).

ALL VENTILATOR COAMINGS CONSTRUCTED IN ACCORDANCE WITH THE RULES & CLOSED

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:  
 Air Pipes on Forecastle Deck To Fore Peaks Lower & Upper 2 off 4" dia. GOOSENECK WOOD PL

	"	N #2 DEEP TANKS	1 "	6 "	BELLMOUTH	DOUBLE GAUZE & SCREW-UP COVER
	"	COFFERDAM	163-4	3 "	GOOSENECK.	WOOD PLUGS.
	"		185-G	2 "	2 1/2 "	
FLENSING	"	COFFERDAM	58-9	2 "	3 "	WOOD PLUGS.
	"	O.F.BUNKER	53-58	2 "	4 "	DOUBLE GAUZE & SCREW-UP COVER.
	"	D.B. OF	36-53	2 "	4 "	
	"	D.B. COAM	35-36	2 "	2 1/2 "	GOOSENECK.
	"	D.B. FRESH WATER	17-35	2 "	3 "	WOOD PLUGS
	"	AFTER PEAK	O-II	2 "	3 "	
	"	DEISEL OIL N#1	53-58	2 "	4 "	BELLMOUTH
	"	SETTLING TANK	53-57	2 "	4 "	DOUBLE GAUZE & SCREW-UP COVER
BOAT DK.	"	O.F.	28-48	1 "	4 "	" " " "
"	"	CENTRE F.W.	11-27	1 "	4 "	" " " "
FLENSING DK.	"	AFTER SIDE OF	O-II	2 "	4 "	" " " "
"	"	C.OAM	57-58 SIDE O.T.	2 "	3 "	GOOSENECK
"	"		27-28 CENTRE TOP	1 "	2 1/2 "	WOOD PLUGS.

ALL AIR PIPES 18" HIGH. ✓

STEEL HINGED W/T CARGO DOORS 3

STEEL HINGED W.T. VENT<sup>LS</sup> DOORS 11 OFF P&S. 24" DIA. & 3/4" THICK  
OF SUBSTANTIAL CONSTRUCTION WITH STRONG BACK MIDSHIP 5' x 3'-6" x .70" THK. 5'-0" " PLATFORM "  
AND DOG CLIPS 12" APART. (AS APPROVED PLAN). AFT 5' x 3'-0" x .70" THK. 2'-3" " "  
" GRAY DISCHARGE OPENING P&S 2'-0" x 2'-0" WITH VERTICAL SLIDING W.T. DOOR CONTROLLED BY HAND SCREW GEAR ALONGSIDE.  
9'-4 1/2" ABOVE TANK DECK. (SPECIAL NOTICE FITTED IN A PROMINENT POSITION). SEE LETTER 1010 JULY 1945.  
STEEL SLIDING W.T. VENT<sup>LS</sup> DOORS 11 OFF P&S. 24" DIA. & 3/4" THICK SECURED BY 4-1" TUGGLES, 4'-2" BELOW FLENSING DECK.  
ALL DOORS EFFICIENTLY CONSTRUCTED.

#### Particulars of Scuppers and Sanitary Discharge Pipes :—

SCUPPERS & SANITARY DISCHARGE PIPES FROM AFT ACCOMMODATION LED THRU K.A.N.R. STORM VALVES 2 3/4" DIA. GUNMETAL  
1'-0" ABOVE LOWER FLAT. WITH AN EFFICIENT TRAP ON UPPER END. FROM SPACES ON UPPER FLAT.  
SCUPPERS & SANITARY DISCHARGE PIPES FROM FORWARD ACCOMMODATION LED THRU R.A.N.R. STORM VALVES 2 3/4" DIA. GUNMETAL  
1'-0" ABOVE FLAT & 1'-6" ABOVE TANK DECK. WITH AN EFFICIENT TRAP ON UPPER END.

FLUENSING DECK PIPE SCUPPERS 6" DIA. 6" OFF P&S OPEN ENDS. CAST STEEL CONNECTION TO SHELL, 11" ABOVE TANK DECK.

TANK DECK DRAINED INTO SUMPS AND EMPTIED BY ELECTRIC PUMP. ✓

Particulars of Side Scuttles :—

SIDE SCUTTLES TO FORWARD & AFTER ACCOMMODATION OF SUBSTANTIAL CONSTRUCTION  
FITTED WITH HINGED DEADLIGHTS.

Vertical distance of Sill of lowest Side Scuttle above top of keel 46'-6" ✓

Particulars of Guard Rails:—

GUARD RAILS ON AFT END FLENSING DECK 3 RODS, 3'-6" HIGH. WITH STANCHIONS SPACED ABOUT 5'-0" APART.  
BULWARK ON FLENSING DECK 3'-6" HIGH x .30" EFFICIENTLY CONSTRUCTED & SUPPORTED.  
" " FORECASTLE " 3'-3" " x .30" " " " " ✓

Particulars of Gangways, Lifelines, etc.:— NONE FITTED

### Particulars of Freeing Arrangements

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
ON FLEMING DECK After Well FROM FORECASTLE BULK <sup>2</sup> To AFT DECKHOUSE	312'	3'-6"	3'-0" x 9"	23 S. 24. P	50 <sup>a</sup> '	40 <sup>a</sup> ' ✓
Forward Well ... ..	✓					

DISTANCE BETWEEN EACH.		FROM AFT END OF BULWARK.	
State position of each freeing port	...	After Well:—	2'-0", 2'-6", 15'-0", 2'-6", 17'-6", 2'-6", 1'-6", 25'-6", 4'-0", 10'-0", 1'-6", 1'-6", 6'-0", 3'-0", 19'-0", 2'-6" = 16.
		FROM FORECASTLE FRONT	FS 157.
(F. and A. position and height above deck edge)		Forward Well:—	13'-3", 2'-6", 32'-0", 1'-6", 17'-6", 3'-0", 15'-6", 3'-0" = $\frac{8}{24}$
ALL 11" ABOVE FLENSING DECK.			
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— No.			

Additional area where sheer is less than standard

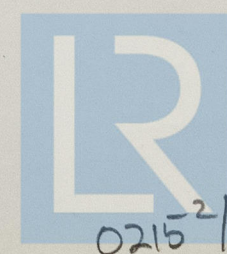
— SOUNDING PIPES. —

DECK PIECES 10" HIGH WITH FLANGE  
TO TAKE EJECTORS. BRASS SCREW  
PLUGS CHAINED TO PIPE.

TO O.F. & F.W. d. & TANKS  
4'-0" ABOVE TANK TOP. FITTED  
WITH SELF-CLOSING VALVES.

COFFER DAM d. b. TANK. 4'-0" ABOVE  
TANK TOP - FITTED WITH  
NON-DETACHABLE SCREW PLUG.





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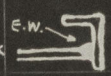
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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

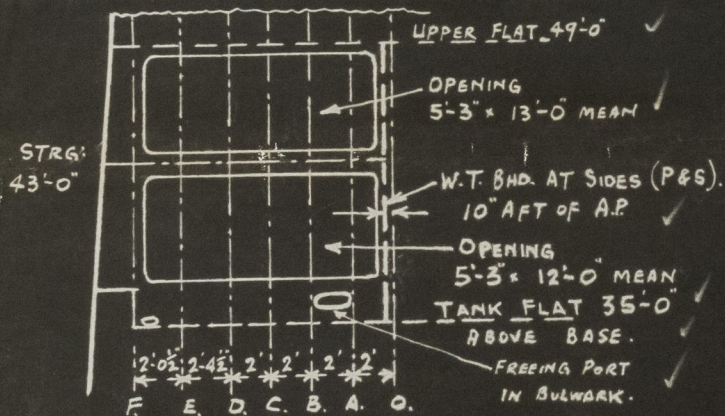
## HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.

Description of Hatchway			FORECASTLE DECK.				FLENSING DECK	W.T. HATCHES	To :-	
Dimensions of Hatchway			TRUNKED HATCH.							
COAMINGS	Height above Deck	...	9' x 18'				PRESSURE BOILERS	2'-10" x 3'-2" (OVAL)	18 OFF.	
	Thickness	Sides	2'-7 1/2"				KVAERNER BOILERS	3'-3" DIA.	20 OFF.	
		Ends	4 1/2"				HARTMANN. BOILERS	2'-0" DIA.	16 OFF.	
	Stiffeners	...	7' x 3' x 40 BA.				COAMINGS :- 8" x 4" x 3/4" O.A. DECK 			
	Brackets, Stays	...	1" STAY EACH END.							
HATCH BEAMS	Number	...	ONE				WITH BOLTED PLATE COVER 40". BOLTS 12" APART.			
	Spacing	...	4'-6"							
	Scantling and Sketch	...	18' x 35" WEB.							
			4 C 3 1/2' x 3' x 44" OA.							
			3 1/2" HORIZ.							
FORE AND AFTERS	Bearing Surface	...	3"							
	Number	...								
	Spacing	...								
	Unsupported Lengths	...								
	Scantling* and Sketch	...								
HATCH COVERS	Bearing Surface	...								
	Material	...	WOOD							
	Thickness	...	2 1/2"							
	How fitted	...	SOLID, F&A.							
	Bearing Surface	...	3"							
Spacing of Cleats			24"							
Number of Tarpaulins			2							

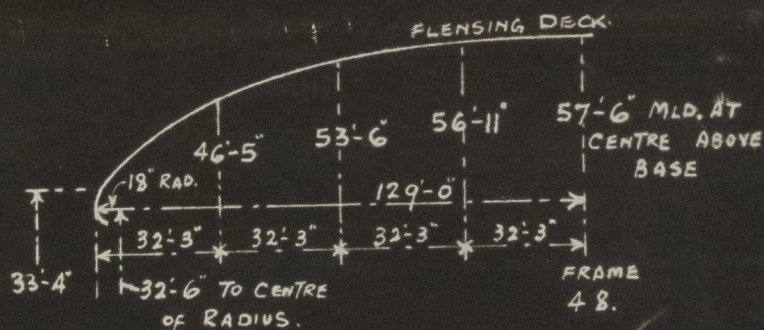
\*Are wood fore and afters steel shod at all bearing surfaces? ☒  
Are battens and wedges efficient and in good condition? ☒  
Are tarpaulins in good condition and in accordance with rule requirements? ☒  
Are lashings provided in accordance with rule requirements? ☒

Particulars of any special features:—

## DETAIL OF TONNAGE OPENINGS IN STERN P&S.



## SKIDWAY OFFSETS.



Endorsement at first survey and at surveys for renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.



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