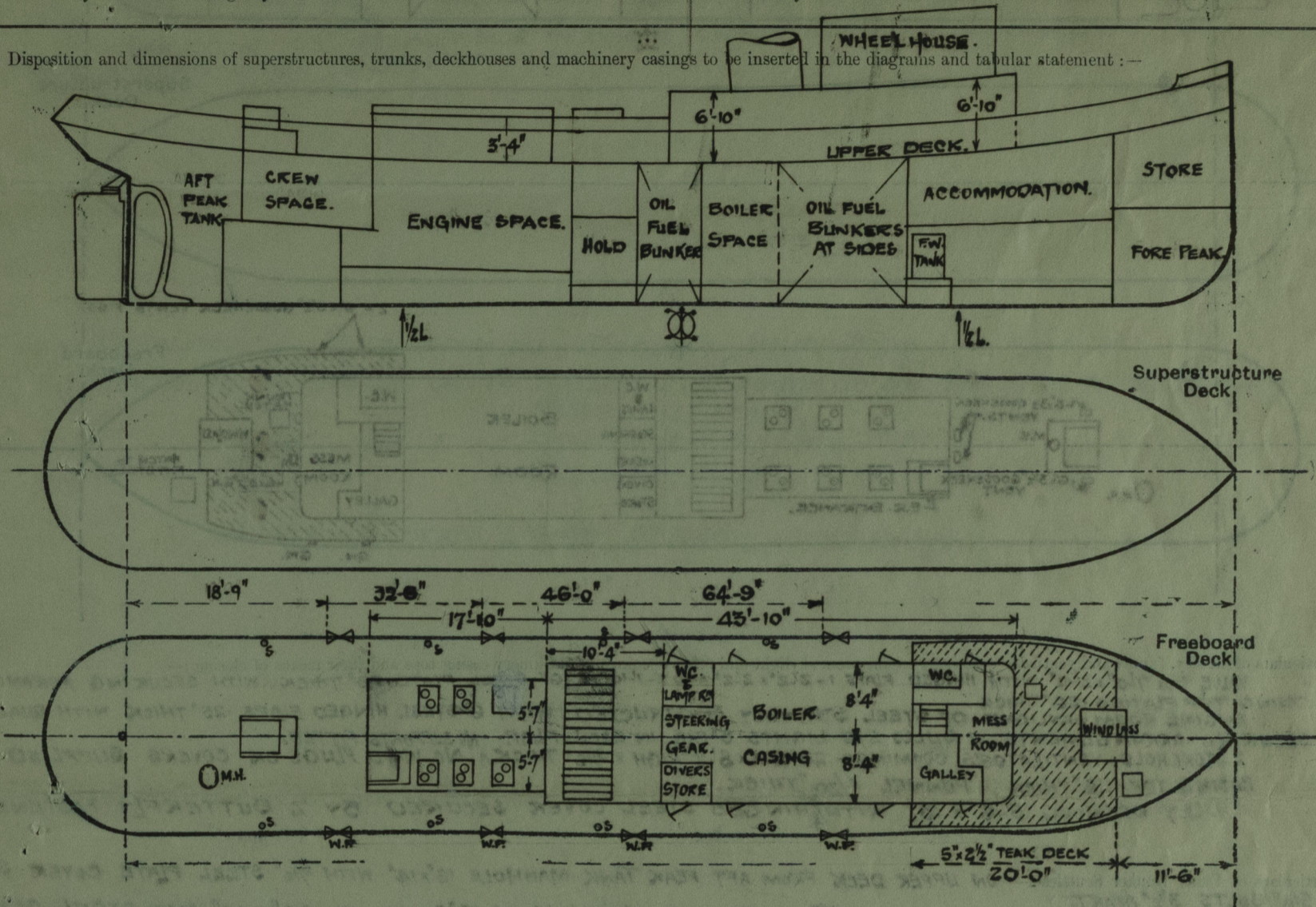


Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.  
(CONDITIONS OF ASSIGNMENT.)

Ship's Name **SINGLE SCREW TUG "KARL"** Port of Survey **HULL.**  
Official Number **Empire Hercules** Surveyor's Signature **Lockhart**  
Nationality and Port of Registry **SWEDISH, GOTHENBURG.** Date of Survey **WHILE BUILDING.**

Disposition and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement :-



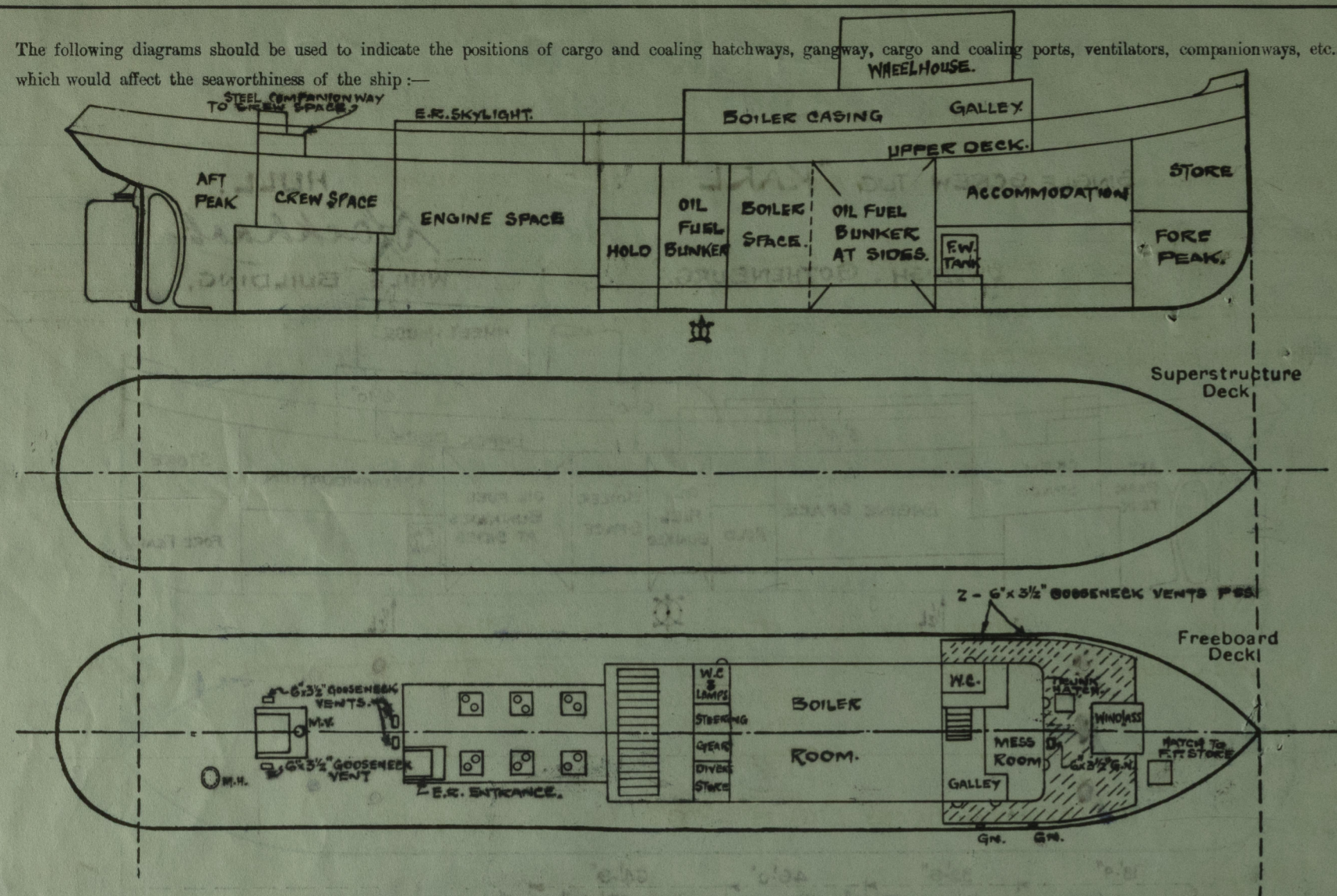
Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Raised Quarter Deck Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, Forward Bulkhead ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Forecastle Bulkhead ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Aft ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	31"	26"	B.C. 6"x3"x1-45" E.C. 3"x2 1/2"x30"	35" 30 1/2"	12"x12"x30" 9"x9"x30" AT TOP	4 STEEL DOORS 4'-0"x14" 2 STEEL DOORS 4'-0"x2'-1"	2'-0" 1'-4"	6'-10"
Exposed Machinery Casings on Superstructure Decks ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	✓	✓	✓	✓	✓	✓	✓	✓
Deckhouses on Flush Deck Ships ...	31"	26"	3"x2 1/2"x30" L	24 1/2"	9"x9"x30" KNEES AT TOP	2 STEEL DOORS 4'-1"x14"	1'-11"	6'-10"

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 ... ..	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	2 HINGED STEEL DOORS WITH SPRING LOCKS AND HANDLES BOTH SIDES TO BOILER ROOM, FORE END. 2 HINGED STEEL DOORS (IN HALVES) WITH SPRING LOCKS AND HANDLES ON UPPER HALF AND BOLT ON INSIDE OF LOWER HALF TO AFT END OF BOILER ROOM. 2 STEEL HINGED DOORS WITH SPRING LOCKS AND HANDLES BOTH SIDES (1 TO DIVERS STORE AND 1 TO W.C.)
Exposed Machinery Casings on Superstructure Decks ... ..	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	✓
Deckhouses on Flush Deck Ships ...	1 HINGED STEEL DOOR TO GALLEY (IN HALVES) 1 1/2" TEAK SHEATHED WITH SPRING LOCK AND HANDLES BOTH SIDES ON UPPER HALF AND BOLT ON INSIDE OF LOWER HALF. 1 HINGED STEEL DOOR TO ACCOMMODATION ALLEYWAY 1 1/2" TEAK SHEATHED WITH SPRING LOCK AND HANDLES BOTH SIDES.

Empire Henckman

Particulars of Gangway Cargo and Coaling Ports:—

NONE.



Particulars of Scuppers and Sanitary Discharge Pipes :- 4 PORT AND 4 STD. 2½" DIA. PIPE SCUPPERS DISCHARGE 9' BELOW UPPER DECK.  
NO STORM VALVES FITTED. ✓

FROM GALLEY, STD SIDE, 1/2" DIA. PIPE FROM SINK DISCHARGING FROM BRASS STORM VALVE 10" BELOW UPPER DECK FROM OFFICERS W.C. PORT SIDE OF DECKHOUSE, FORWARD, 4" DIA. PIPE DISCHARGING FROM BRASS STORM VALVE 1/2" BELOW UPPER DECK. ✓  
FROM CREWS W.C. AFT PORT SIDE OF BOILER CASING 4" DIA. PIPE DISCHARGING FROM BRASS STORM VALVE 9" BELOW UPPER DECK. ✓

NONE FITTED THROUGH SHIPS SIDE.

IN DECKHOUSE ON UPPER OK TO GALLEY-2-STD SIDE, 10" DIA LIGHTS WITH DEADLIGHTS.	✓
" " " " " MESSROOM-2- FRONT,	✓
" " " " " OFFICERS W.C.-1- PORT SIDE "	✓
" " " " " CREWS W.C.-1- "	✓

10" OPENING BRASS LIGHTS STRONGLY CONSTRUCTED.

Vertical distance of Sill of lowest Side Scuttle above top of keel

Particulars of Guard Rails :—

STEEL BULWARKS ALL FORE AND AFT 3'-0" HIGH. ✓  
STRONGLY CONSTRUCTED AND STIFFENED. ✓

Particulars of Gangways, Lifelines, etc. :—

None Fitted

Particulars of Companionways:— STEEL COMPANIONWAY TO CREW SPACE AFT WITH 2 TEAKWOOD DOORS 1 1/2" THICK WITH 2 BOLTS INSIDE AND BRASS LOCK WITH HANDLES BOTH SIDES. DOOR SILL 18" ABOVE UPPER DECK. SLIDING 1 1/2" TEAKWOOD TOP WITH 2 BOLTS INSIDE. ✓  
COMPANIONWAY TO ENGINE ROOM AT AFT END OF ENGINE CASING WITH TEAKWOOD DOOR 1 1/2" THICK WITH 2 BOLTS INSIDE AND BRASS LOCK WITH HANDLES BOTH SIDES. DOOR SILL 24" ABOVE DECK. ✓  
SLIDING TEAKWOOD TOP 1 1/2" THICK WITH 2 BOLTS INSIDE. ✓

Particulars of Ventilators in exposed positions on freeboard ~~and superstructure deck~~ —

5 - GOOSENECK VENTILATORS 2 FOOT, 2 STARBOARD, 1 CENTRE, ON UPPER DECK FORWARD TO OFFICERS ACCOMMODATION 6" X 3 1/2" (WELDED), 1' 9" ABOVE DECK TO MOUTH.

4 - GOOSENECK VENTILATORS ON UPPER DECK AFT TO CREWS ACCOMMODATION 6" X 3 1/2" (WELDED), MOUTH 1' 9" ABOVE DECK.

1 - MUSHROOM VENTILATOR 6" DIA. (BRASS) ON CREWS COMPANIONWAY AFT 2'-6" ABOVE UPPER DECK.

WOOD PLUGS SUPPLIED FOR ALL GOOSENECK VENTILATORS.

Particulars of Air Pipes in exposed positions on freeboard, <del>raised 6 inches above upper gun deck</del> ✓									
ON UPPER DECK TO FORE PEAK TANK	2 1/2" DIA.	GOOSENECK	3/2" TO MOUTH	PROTECTED UNDER BOW CHOCK PLATE	✓				
" " " " FRESH WATER "	P & S. 2" DIA.	"	2 1/2" " "	" " BY BULWARKS.	✓				
" " " " SIDE BUNKERS	P & S. 3" DIA.	"	5" " "	" " " "	✓				
" " " " AFT PEAK TANK	P & S. 2" DIA.	"	1 1/2" " "	" " " "	✓				
" BOILER CASING " CROSS BUNKER AT SIDES	P & S. 3" DIA.	GOOSENECKS	5-2" TO MOUTH	ABOVE UPPER DECK.	✓				
" " " " " " " " CENTRE	P & S. 3" "	"	6-2" " "	" " " "	✓				

WOOD PLUG AND CHAIN SUPPLIED FOR EACH AIR PIPE EXCEPT OIL FUEL BUNKER AIR PIPES WHICH ARE FITTED WITH GAUZE. ✓

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ... ..	105'-0"	3'-0"	2'-3" x 12"	4	9.05-f.	72 147
Forward Well ... ..						

State position of each freeing port ... .. ~~After Well:—~~ SEE SKETCH ON PAGE I FOR POSITION  
(F. and A. position and height above deck edge) ~~Forward Well:—~~ 6 1/2" ABOVE DECK.

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: — EACH PORT FITTED WITH 2 HORIZONTAL BARS, EACH 7/8" DIA.

Additional area where sheer is less than standard

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.									
Description of Hatchway	...	...	...	ONE HATCH ON CASING TOP.					
Dimensions of Hatchway	...	...	...	5'-2" x 16'-2"					
COAMINGS	{	Height above Deck	...	SITUATED 3'-4" ABOVE					
		Thickness	...	UPPER DECK.					
		Sides	...	3" x 2 1/2" x 30 ANGLES. ✓					
		Ends	...	✓					
HATCH BEAMS	{	Stiffeners	...	✓					
		Brackets, Stays	...	✓					
		Number	...	NONE.					
		Spacing	...						
Scantling and Sketch	...								
FORE AND AFTERS	{	Bearing Surface	...	NONE.					
		Number	...						
		Spacing	...						
		Unsuppported Lengths	...						
HATCH COVERS	{	Scantling and Sketch	...	NONE.					
		Bearing Surface	...						
		Material	...		WHITE PINE ✓				
		Thickness	...	3" ✓					
Spacing of Cleats	...	...	...	23" (2 1/2" x 2 1/2" x 1/2" WELDED TO CASING TOP.) ✓					
					Number of Tarpaulins	...	2 ✓		
*Are wood fore and afters steel shod at all bearing surfaces? ✓									
Are battens and wedges efficient and in good condition? YES. ✓									
Are tarpaulins in good condition and in accordance with rule requirements? YES.									
Are lashings provided in accordance with rule requirements? NONE FITTED. ✓									

Particulars of any special features :—

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.

