

FOR CLASSIFICATION PURPOSES ONLY

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

Index No.
(For London Office only.)

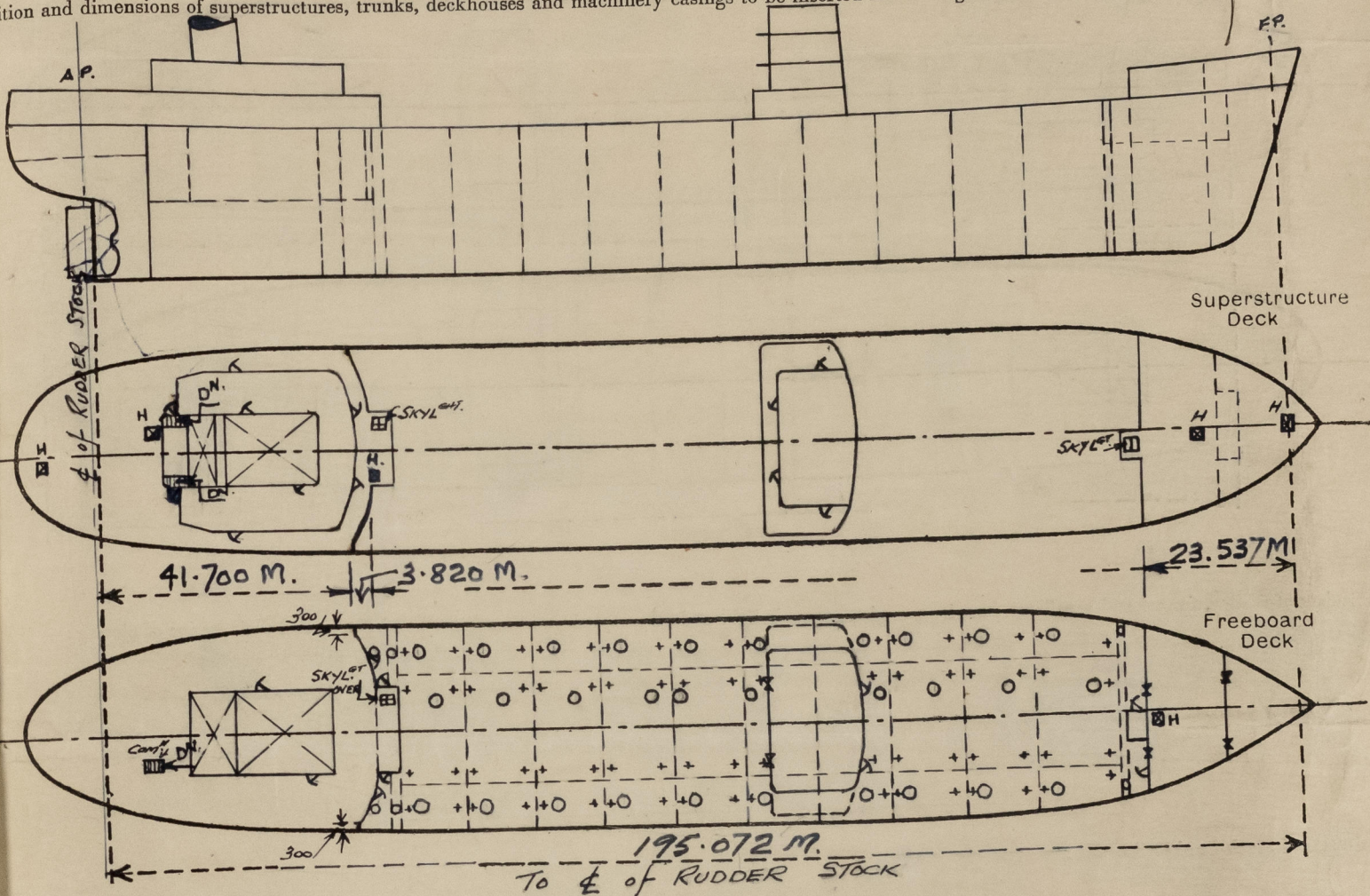
OCT 1959

N. K. Tominami 760

Whist Building

Ship's Name KOWA MARU Port of Survey Yokohama
Official Number 82924 Surveyor's Signature [Signature]
Nationality and Port of Registry JAPANESE TOKYO Date of Survey Whist 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 mm	Plating mm	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Port Bulkhead ...	11.5	11.5	300x90x1/16 L	800	BKT. T. & B.	1720x870	460	2591
Starboard Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Starboard Quarter Deck Bulkhead ...	10	10	125x75x10 L	800	LUGGED	1600x920	400	2591
Starboard After Bulkhead ...	11.5	11.5	250x90x10/15 L	800	BKT. T & B.	1600x750	460	2591
Starboard Forward Bulkhead ...	8	8	100x75x7 L	800	SNIPED T. & B.	1600x920	400	2440
Starboard Forecastle Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Starboard Tank, Aft ...	✓	✓	✓	✓	✓	✓	✓	✓
Starboard Tank, Forward ...	✓	✓	✓	✓	✓	✓	✓	✓
Closed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓	✓	✓	✓	✓	✓	✓	✓
Closed Machinery Casings on Superstructure Decks ...	✓	✓	✓	✓	✓	✓	✓	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	11.5	11.5	300x90x1/16 L	800.	BKT. T. & B.	1450x750	610	2591
Camp Room aft ...	8	8	100x75x7 L		SNIPED T & B	1450x750		2440
Camp Room Forward ...	✓	✓	✓	✓	✓	✓	✓	✓

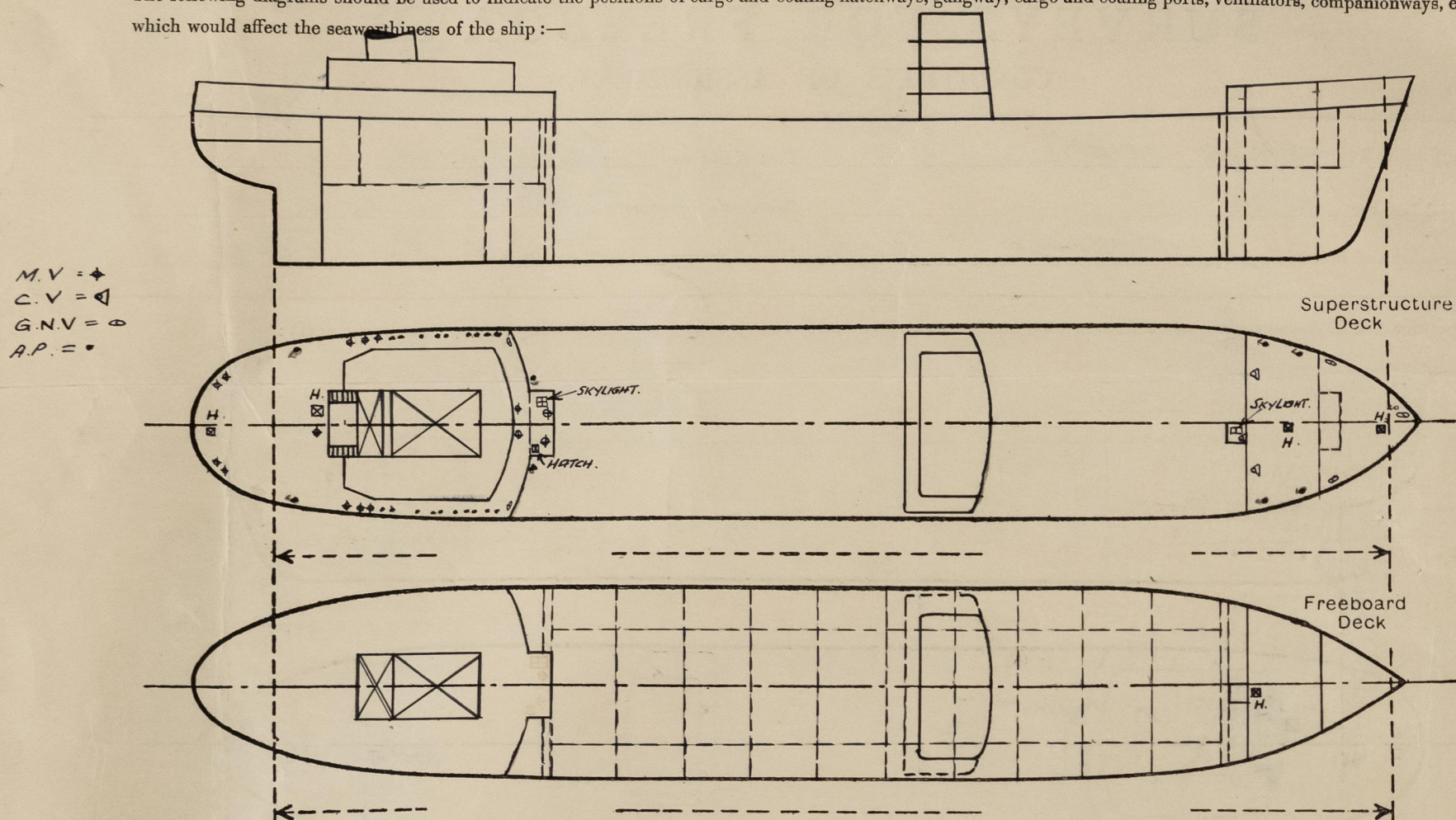
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Port Bulkhead ...	Hinged steel watertight doors opening from both sides.
Starboard Bulkhead ...	✓
Starboard Quarter Deck Bulkhead ...	Portable steel plates with hook bolts.
Starboard After Bulkhead ...	✓
Starboard Forward Bulkhead ...	Hinged steel watertight doors operable from both sides
Starboard Forecastle Bulkhead ...	Portable steel plates with hook bolts
Starboard Tank, Aft ...	Hinged steel door capable of being opened from both sides
Starboard Tank, Forward ...	✓
Closed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓
Closed Machinery Casings on Superstructure Decks ...	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓
Camp Room aft ...	Hinged steel w.T. Doors operable from both sides.
Camp Room Forward ...	

012585-012590 0117 1/2

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



Particulars of fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—

Fiddle, funnel, vent coamings of E.R. skylight strongly constructed of steel. Skylight fitted with hinged steel flaps with strong built-in lights. Fiddle openings fitted with hinged steel covers pattern attached (Boat Deck).

Particulars of Flush Bunker Scuttles:— None.

Particulars of Companionways:— Poop Deck:— Two companionways to poop space under, enclosed, strong steel cleehouse on Poop Deck. 6 openings (2 @ 1435 x 800 with sill 510, 2 @ 1660 x 750 with sill 460, 2 @ 1750 x 750 with sill 230 and inner opening 1415 x 750, 2 @ 545 x 750 with sill 460). All doors of hinged steel except two doors on after bulkhead, one of hardwood 2" thick. All doors capable of being operated from both sides. Two inner doors in side casing of 2" thick hardwood of capable of being operated from both sides.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

Forecastle Deck:—

3 - 200 x 100 G.N. Vents x 8" Thick x 460" high.

3 - 500" dia C. Vent x 10" Thick x 1400" high. (Stayed).

Poop Deck:—

2 - 200 x 100 G.N. Vents x 8" Thick x 460" high.

10 - 250" dia M. Vent. x 8" Thick x 765" high.

2 - 350" dia M. Vent. x 9" Thick x 765" high.

1 - 450" dia M. Vent. x 9" Thick x 765" high.

1 - 700" dia M. Vent. x 10" Thick x 3750" high. (Stayed).

1 - 700" dia M. Vent. x 10" Thick x 2300" high. (Stayed).

All Mushroom vents fitted and screw down W.T. heads.

All Bowl vent coamings fitted with wood plugs of canvas cover.

All Booseneck vents fitted with W.T. hinged flaps. Details.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

Forecastle Deck:—

5 - 130" dia A.P.s 460" high to opening.

Poop Deck:—

16 - 80" dia A.P.s 460" high to opening.

2 - 65" dia " " " " " "

2 - 125" dia " " " " " "

2 - 100" dia " " " " " "

all air pipes fitted with heavy steel watertight flaps and from oil tanks fitted with gauge diaphragms in addition.

Particulars of Gangway Cargo and Coaling Ports:— None.

Particulars of Scuppers and Sanitary Discharge Pipes:—

Drainage from forecabin space led through holes in end bulkhead of forecabin to upper deck and fitted with screwed brass plugs with chain attachment.

Scuppers from forecabin space led overboard through non-return valves.

Drainage from Bridge Deckhouse led through holes in surrounding bulkhead casings to upper deck and fitted with screwed brass plugs with chain attachment.

Scuppers & sanitary discharges from bridge accommodation led overboard through non-return valves.

Scuppers & sanitary discharges from accommodation within the poop space & above led overboard through two non-return valves.

Drainage from the steering engine room below the upper deck led to the engine room bilges through three weighted cocks.

Drainage from within the Poop Space led to the engine room bilges fitted with self-closing cocks. No overboard discharges from below the freeboard deck.

Particulars of Side Scuttles:—

Poop Side Shell:—

300" dia gun metal side scuttles fitted with hinged malleable cast-iron deadlights.

Freeboard deck drained by 20" dia thick open ended pipes through shell. Poop deck drained in similar manner. Bridge and forecabin decks drain to freeboard deck through open ended pipes. Chain locker drained by water ejector. S.O.N.R. valve fitted at shell discharge in accessible position.

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

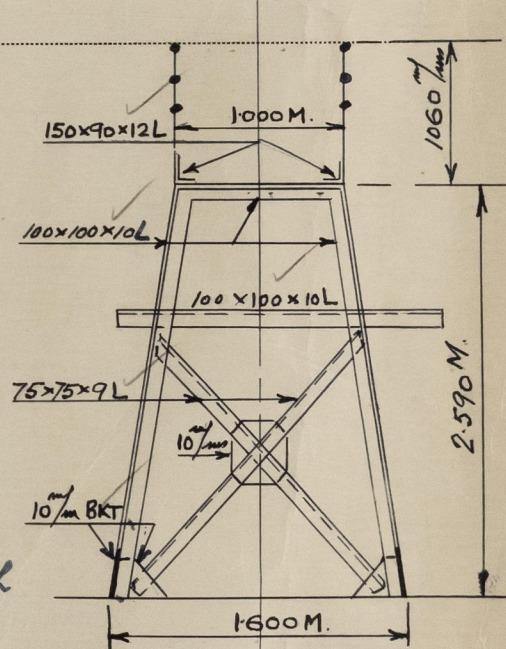
15.860 Metres.

Particulars of Guard Rails:—

Guard rails fitted on forecabin, bridge Poop & Upper Decks:— 3 tiers of handrails with stanchions 1100" high and stanchions spaced approximately 1500" apart.

Particulars of Gangways, Lifelines, etc.:—

Fore & aft gangway (as in sketch) fitted between Poop & Bridge. Gangway supports spaced 3.000" apart. Fore & aft bracing 90 x 90 x 10L diagonally fitted at every 4" bay. Guard rails fitted at side of walkway (3 tiers) & stanchions 1100" high spaced 1500" apart. Walkway consists of metal grating.



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 ...	Open Rails.					
Forward well ...						

State position of each freeing port ... After Well:— Forward Well:—

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—

Additional area where sheer is less than standard.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.												
			← UPPER DECK. →		← FOCLE DECK →		IN FOCLE	← POOP DECK →				
Description of Hatchway			Cargo oil Tanks	F + A. Cofferdam.	Fuel oil Tanks.	Boilers (F) Store.	FOCLE STORE	VOID. SPACE.	PUMP Room (A)	POOP STORES	BOAT'S STORE (A)	
Dimensions of Hatchway			1150 x 750	600 x 500	600 x 500	600 x 550	600 x 550	600 x 550	600 x 550	1500 x 1450	600 x 550	
COAMINGS	{	Height above Deck	765	610	610	610	610	230	460	460	460	
		{	Sides	12	12	12	11	11	11	11	11	11
			Ends									
		Stiffeners		✓	✓	✓	✓	✓	✓	✓	✓	✓
		Brackets, Stays	✓	✓	✓	✓	✓	✓	✓	✓	✓	
HATCH BEAMS	{	Number	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Spacing	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Scantling and Sketch	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FORE AND AFTERS	{	Number	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Spacing	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Unsupported Lengths	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Scantling* and Sketch	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Bearing Surface	W.T.	W.T.	W.T.	W.T.	W.T.	W.T.	W.T.	W.T.	W.T.	
HATCH COVERS	{	Material	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	
		Thickness	0.5"	0.5"	0.5"	7/16"	7/16"	7/16"	7/16"	7/16"	7/16"	
		How fitted	HINGED	HINGED	HINGED	HINGED	HINGED	HINGED	HINGED	HINGED	HINGED	
		Bearing Surface	TOGGLES	TOGGLES	TOGGLES	TOGGLES	TOGGLES	TOGGLES	TOGGLES	TOGGLES	TOGGLES	
Spacing of Cleats			PATENT	PATENT	PATENT	300	300	300	300	300/400	300	
Number of Tarpaulins			TOGGLES	CLOSING	CLOSING	5	5	5	5	8	5	
*Are wood fore and afters steel shod at all bearing surfaces? None.												
Are battens and wedges efficient and in good condition? None												
Are tarpaulins in good condition and in accordance with rule requirements? None												
Are lashings provided in accordance with rule requirements? None.												

Particulars of any special features:—

Fore of Aft Pump Room Skylights: size: 2 @ 650 x 450 x 7/16" hinged steel covers over glass holders capable of being closed watertight. (Forward P.R. Room) & 4 @ 650 x 450 x 7/16" hinged steel covers over glass holders (Aft P.R. Room). capable of being closed watertight. Height of steel coaming of skylights: (Aft: - 460 mm x 11 mm) (Forward: 610 mm x 8 mm)

This vessel is also classed by Nippon Kaiji Kyokai and freeboard have been assigned by that Society viz: - 3505 mm measured from the top of the steel upper Deck.



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