



Pre-purchase condition survey

Marine Consultancy Services

Report for:
M.V. DOÑA MERCEDES

LR No: 9772888

Section 1:		Document Control Sheet	
Status:			
Preliminary:	<input checked="" type="checkbox"/>	Final report:	<input type="checkbox"/>
Restricted:	<input type="checkbox"/>	Unrestricted:	<input type="checkbox"/>
Revision:	02	Date:	10/12/2017
Author(s):		Approved for issue:	
Signed:		Signed:	
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LR office: Guangzhou		LR office:	
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Distribution:			
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Client/copy no. 1	<input type="checkbox"/>		
LR (office)/copy no. 2	<input type="checkbox"/>		

Section 2: Certificate	
Project: DOÑA MERCEDES LR No. 9772888 Client: Ministry of Finance, Government of Trinidad and Tobago	Certificate no: Office: Guangzhou Date: 10/12/2017
Inspection dates:	First: 04/12/2017 Final: 05/12/2017

This Certificate issued to certify that the undersigned Surveyor(s), did at their request and with the consent of the Owner's representative, attend the "DOÑA MERCEDES" with LR No. 9772888 of gross tons of 2796 and port of registry PORT VILA on 04-05/12/2017 while the vessel was afloat at Guangdong Bonny Fair Heavy Industry Ltd. at Guangzhou for the purpose of reporting on the condition of the hull, holds, decks, machinery, accommodation, life-saving, fire-fighting and navigation equipment.

In as far as the Vessel has been seen and examined it is my opinion that the Vessel is in good condition, subject to the comments given in section 3.

Signed


Lloyd's Register Classification
Society (China) Co., Ltd.
Initials ZZZ
Guangzhou Office



Dated10/12/2017.....

Surveyor to Lloyd's Register Classification Society (China) Co., Ltd.

This report is a factual statement of the condition of the Vessel as found and no responsibility is accepted as to the suitability of the Vessel for its intended service.



Section 3: Summary of survey findings

Hull

The vessel was a Catamaran RoRo passenger ferry built according to LR Rules and Regulations for Classification of Special Service Craft for service in waters where the range to refuge is 150 nautical miles or less. No test for the ship equipment was carried out this time.

The vessel just completed all the surveys and inspections and prepared for the final delivery with outstanding items mainly include the documents needed to be provided from owner side.

Details of classification notation are as follows:

✱100A1 SSC Passenger Ship, Catamaran, LDC, G3

[✱] LMC

Tanks/holds:

The vessel have following void spaces:

F. P.(P&S)

No.2 Void Spaces(P&S)

No.3 Void Spaces(P&S)

No.4 Void Spaces(P&S)

No.5 Void Spaces(P&S)

Engine Room(P&S)

A.P. (P&S)

All above void spaces were examined and found in good condition.



The vessel has following Tanks and no inspection was carried out because all of them were bolted during attendance.

TANK CAPACITIES			
TANK NO.	DESCRIPTION	VOLUME (L)	WEIGHT (t)
1P	FWD F.O. TANK	14,000	11.8
1S	FWD F.O. TANK	14,000	11.8
2P	MID F.O. TANK	29,000	24.4
2S	MID F.O. TANK	29,000	24.4
3S	F.W TANK	13,000	13.0
4P	GREY WATER TANK	5,000	5.0
4S	GREY WATER TANK	5,000	5.0
5P	F.O. DAY TANK	31,000	26.0
5S	F.O. DAY TANK	31,000	26.0
6P	CLEAN LUBE OIL TANK	3,500	3.2
6S	FUEL OVERFLOW TANK	3,500	3.0
7P	DIRTY OIL TANK	3,500	3.2
7S	BILGE WATER TANK	3,500	3.5

Accommodation:

Vessel is designed for 10 crew on board. It has one Captain cabin and one VIP cabin on sun deck after the navigation bridge. It also has 4 cabins for two crew each and one cabin for 4 crew. Related washrooms and one mess room are also provided.

Vessel was designed for PASSENGERS (TOTAL) 672
BUSINESS CLASS (STARBOARD) 75 on Upper deck
TOURIST CLASS (STARBOARD AFT) 182 on upper deck
TOURIST CLASS (PORT AFT) 194 on upper deck
TOURIST CLASS (PORT FWD) 125 on upper deck
SUN DECK 96 on sundeck

Car deck on main deck designed for 94 cars



Deck outfit and life-saving equipment:

Vessel's Safety Equipment / Fire Safety / Radio and Communications Equipment / Navigation Equipment is to be certify for a Vanuatu Registered Vessel complying with Australian Uniform Shipping Laws Code 1989 Class 1C Regulations with The following exemptions have been issued by Vanuatu Maritime Services Ltd.:

- 1.1 Crew Accommodation below main deck ventilation duct passing through main deck Ro-Ro space shall maintain fire integrity as upper deck, unless otherwise, fire dampers being provided, as same fire integrity of its deck and operable below main deck and above upper deck.
- 1.2 All ventilation duct penetrations shall be same fire integrity of its bulkhead and deck.
- 1.3 Upper deck starboard side aft lift trunk shall be protected by A30 boundary.
- 1.4 Port and starboard inboard staircase at sundeck, in way of frame 32 to 35, boundary to captain's cabin / toilet & VIP room / toilet shall be A15 class protection.
- 1.5 Port inboard staircase at upper deck, in way of frame 35 to 39, where lead down from wheelhouse, boundary to passenger area shall be A30 class protection. It's boundary door shall be same fire integrity and self-closing door.
- 1.6 Port and starboard outboard staircase at upper deck, in way of frame 34 to 37, boundary to passenger area shall be A15 class protection. The boundary door shall be same fire integrity and self-closing door.
- 1.7 A-60 class door at port and starboard side upper deck in way of frame 53 shall be self-closing door.
- 1.8 A-15 Class boundary shall be provided at port and starboard upper deck in way of frame 5 to protect the passenger area. The boundary door shall be same fire integrity and self-closing door.
- 1.9 Main deck staircase door, at port and starboard side in way of frame 3 leading to switchboard rooms, shall be self-closing door.
- 1.10 Main deck port and starboard staircase fire doors in way of frame 34 and 39 shall be same fire integrity as the boundary and self-closing.
- 1.11 A-30 Class bulkhead and doors shall be provided port and starboard frame 15 to separate engine room and corridor.
- 1.12 Emergency generator room located on port side main deck forward of the collision bulkhead is not in accordance with USL Code Section 9 Clause 29.2.1.
- 1.13 There shall be provided with six (6) sets of parachute distress rockets and four (4) sets of red hand flares and two (2) sets of hand held orange smoke signals.
- 1.14 An additional portable fire extinguisher shall be provided on each deck of passenger space for every 10 meters.
- 1.15 A fire smothering blanket shall be provided in galley, if galley is identified.
- 1.16 Firemen's outfits, two together with an additional outfit for each 30 meters in length, shall comply with Appendix H of the Code. Breathing apparatus and air hoses shall be arranged.
- 1.17 Should the Ro-Ro deck to consider as cargo space that to provide fixed fire extinguishing installation complying with Appendix E of the Code subject to Administration decision.
- 1.18 The compliance with the above damage stability requirements is also subject to the requirements for sliding doors to be fitted in the watertight bulkheads under freeboard deck.



Mooring equipment:

One windlass of electric hydraulic one provided above port side upper deck

Two anchors of with 790kgs were provided on board and anchor chain has 25.6m long with dia.30mm

Cargo handling system and gear:

Not applicable

Main machinery:

Four main engine

MAIN ENGINES 4x MTU 16V 4000 M70
(2240kW @ 2000RPM)

Maker: MTU Friedrichshafen GmbH.

Auxiliary machinery :

Maker: Cummins X2

Model/type: QSB7-DM power/speed:164KwX1500XRPM



Safety equipment:

Details of life-saving appliances

	Requirement	Total number provided, capacity and type
• Total number of persons for which life-saving appliances are provided:	682	900
2 Liferafts and rescue boats:		
2.1 Inflatable coastal liferafts		900=6x150
(Liferafts had been serviced recently and kept in the shipyard store) only two Liferafts from other vessels were put on board for last time sea trail purpose)		
2.2 Non-SOLAS rescue boat	1 Required	1 Provided
3 Buoyant appliances:		
3.1 Dinghy	Not Required	
3.2 Buoyant appliances/floats	Not Required	
3.3 Lifebuoys:		
3.3.1 Lifebuoys with light	4	4 Provided
3.3.2 Lifebuoys with light and smoke	2	2 Provided
3.3.3 Lifebuoys with buoyant line	2	2 Provided
3.3.4 Other lifebuoys	Not Required	Nil
4 Lifejackets:		
4.1 SOLAS lifejackets with light	Not Required	Nil
4.2 Coastal lifejackets with light	682 Required	990 Provided(include 90 child lifejackets)
4.3 Coastal lifejackets – no light	Not Required	Nil
5 Distress signals:		
5.1 Parachute distress rockets	6 Required	6 Provided
5.2 Red hand-held flares	4 Required	4 Provided
5.3 Hand-held orange smoke signals	2 Required	2 Provided
6 Line throwing appliances:		
6.1 4 x rockets and lines	4 Required	4 Provided
7 On board communications and alarm systems:		
7.1 General emergency alarm system	Required	Provided
7.2 Public address system	Required	Provided
7.3 Engineering communications	Required	Provided
7.4 Bridge to emergency steering position communications	Required	Provided
8 Emergency lighting:		
8.1 Battery-operated torches	Required	Provided
8.2 Emergency navigation lights	Required	Provided
8.3 Emergency signalling lamps	Required	Provided



Electrical systems:

Main switchboards in the steering gear room and one emergency generator is provided.

Bridge outfit:

In good condition

Other specific items:

Outstanding items are as follows:

- Registry certificates
- Radio station license.
- Shore Base Maintenance Agreements
- Exemption certificates corresponding to the AQP comments
- Crew certificates
- Navigation publications
- Muster list to be posted.
- Training manual
- Oil record book
- Final delivery voyage to be submitted for approval.
- The final approval delivery voyage stability booklet to be submitted.

All the plan approval comments had been closed.

Problems with engine vibration and shafting and stern bearings found during the sea trial were solved. During the sea trial on 11/07/2017, attending surveyor was satisfied with the related conditions. Shaft seal temperatures were measured and all found satisfactory. For details, please see the sea trial report as attached.

Section 4: Location/loading condition/state of vessel

Vessel examined		Remarks	
Anchor			
Quay	X		
Drydock			
Loaded	Yes		
	No		X
Gas free	Yes	X	
	No		
Laid up	Yes		
	No	X	

Section 5: Vessel description and special features



Section 6: Principal particulars

LR number:	9772888
Current vessel name:	DOÑA MERCEDES
Owners:	-
Managers:	-
Builder:	Guangdong Bonny Fair Heavy Industry Ltd.
Yard number:	HY 2186
Year of build:	Not yet know
Date keel laid:	28 April 2015
Date of delivery:	Not available
Port of registry:	PORT VILA
Official number:	2176
Call letters:	YJTC3
Type of vessel:	Roro Passenger Ferry Catamaran
Classification:	✳100A1 SSC Passenger Ship, Catamaran, LDC, G3 [✳] LMC
Length: L.O.A.	73.6
Length: L.B.P.	66.882
Breadth: (m)	21.593
Breadth: (extreme)	-
Depth: (m)	5.746
Draught: (maximum summer)	2.75
Displacement: (summer)	-
Gross tonnage:	2796
Net tonnage:	838
Deadweight:	475
Main engine type:	MAIN ENGINES 4x MTU 16V 4000 M70
Output at RPM:	(2240kW @ 2000RPM)
Electric power generation and prime movers:	Cummins X2 Model/type: QSB7-DM power/speed:164KwX1500XRPM One emergency generator provided.



Section 7: Classification status of vessel

Status:	Last survey date:	Next survey date:
Annual survey	N/A	N/A
Boiler survey		
Docking survey		
Machinery survey		
Special survey		
Steampipe survey		
Tailshaft survey		

Conditions of class		
Place:	Report no:	Remarks:
N/A		

Section 8: Trading certificates/manuals/logbooks

Status:	Issued by:	Date of issue:	Date of expiry:	Last endorsement:
Certificate of Registry:	N/A			
International Load Line:				
International Tonnage:	SNG 1611014 LR asia	24/02/2016		
Panama Canal Tonnage:				
Suez Canal Tonnage:				
Safety Construction:				
Safety Equipment:				
Safety Radiotelegraphy: (prior 01/02/99)				
Safety Radiotelephony: (prior 01/02/99)				
GMDSS: (from 01/02/99)				
Passenger Ship Safety:				
ISM Code:				



Status:	Issued by:	Date of issue:	Date of expiry:	Last endorsement:
Minimum Manning Certificate:				
Safe Manning:				
IOPP Certificate:				
Certificate of Insurance in Respect of Civil Liability for Oil Pollution:				
Deratting:				
Carriage of Grain:				
IMO Certificate of Fitness:				
Noxious Liquid Substances:				
Carriage of Dangerous Goods:				
Port State Control:				
Classification Hull Survey:				
Classification Machinery Survey:				
U.S.C.G. Letter of Compliance:				
U.S.C.G. Certificate of Financial Responsibility (Water Pollution):				
Unattended Machinery Space:				
Non-Canadian Compliance:				
R.I.N.A. Certificate:				

Manuals:	Government:	Date of approval:
Cargo Gear Manual:		
Cargo Gear Register:		
Cargo Securing Manual:		
C.O.W. Manual:		
Grain Loading Manual:		
Operations Manual:		
Procedures & Arrangement Manuals Annex I/II:		
Shipboard Oil Pollution Emergency Plan:		
Trim & Stability Book		



Log books examined		Remarks
Deck:	Yes	
	No	
Engine:	Yes	
	No	
Other (specify):		

Section 9: Definitions of terms used in the report

General condition:

Good	1. Unimpaired condition without significant wear or deviation from original strength and operational efficiency, no maintenance or repair required
Satisfactory	2. Condition with wear and tear and other deficiencies of a minor nature not requiring correction or repair.
Unsatisfactory	3. Condition in which the adequacy of strength and/or operational efficiency is marginally below acceptable limits or is in doubt. Remedial action is required.
Poor	4. Condition of undoubtedly inadequate strength or operation efficiency. Immediate extensive repair or renewal required to reinstate serviceability.

Coating condition:

Good	1. Condition with only minor spot rusting affecting not more than 20% , of areas under consideration e.g. on a deck transverse, side transverse, on the total area of plating and stiffeners on the longitudinal structure between these components, etc.
Fair	2. Condition with local breakdown at edges of stiffeners and welding connections and/or light rusting affecting 20% or more of areas under consideration.
Poor	3. Condition with general breakdown of coating affecting 20% or more of areas under consideration or hard scale affecting 10% or more.



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Section 10: Survey checklist sheets

10.1 Hull

Rudder: Not checked									
General:									
Pintle lower:	Clearances*				Port	Stbd	Fwd	Aft	
Pintle upper:	Clearances*				Port	Stbd	Fwd	Aft	

*Taken from Ship's Records – (mm)

Shell port:									
Forward:	1				1			No	
Midship:	1				1			No	
Aft:	1				1			No	

Shell starboard:									
Forward:	1				1			No	
Midship:	1				1			No	
Aft:	1				1			No	

Shell below waterline: Not checked									
Forward:									
Midship:									
Aft:									

Forecastle deck:	1				1			No	
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Main deck:									
Forward:	1				1			No	
Midship:	1				1			No	
Aft:	1				1			No	

Cargo holds: N/A									
No. 1:									
No. 2:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

No. 3:									
No. 4									
No. 5									

T'ween decks:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									

Poop deck:									
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10.2 Tanks

Cargo tanks: N/A									
No. 1 port:									
No. 1 centre:									
No. 1 stbd:									
No. 2 port:									
No. 2 centre:									
No. 2 stbd:									
No. 3 port:									
No. 3 centre:									
No. 3 stbd:									
No. 4 port:									
No. 4 centre:									
No. 4 stbd:									
No. 5 port:									
No. 5 centre:									
No. 5 stbd:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

No. 6 port:									
No. 6 centre:									
No. 6 stbd:									

Ballast double bottom tanks: N/A									
No. 1 port:									
No. 1 stbd:									
No. 2 port:									
No. 2 stbd:									
No. 3 port:									
No. 3 stbd:									
No. 4 port:									
No. 4 stbd:									
No. 5 port:									
No. 5 stbd:									
No. 6 port:									
No. 6 stbd:									

Miscellaneous tanks: N/A									
Slop tank port:									
Slop tank stbd:									

Fore peak tank:									
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Aft peak tank:									
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Ballast topside tanks: N/A									
No. 1 port:									
No. 1 stbd:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

No. 2 port:									
No. 2 stbd:									
No. 3 port:									
No. 3 stbd:									
No. 4 port:									
No. 4 stbd:									
No. 5 port:									
No. 5 stbd:									
No. 6 port:									
No. 6 stbd:									

Ballast bottom hopper tanks: N/A									
No. 1 port:									
No. 1 stbd:									
No. 2 port:									
No. 2 stbd:									
No. 3 port:									
No. 3 stbd:									
No. 4 port:									
No. 4 stbd:									
No. 5 port:									
No. 5 stbd:									
No. 6 port:									
No. 6 stbd:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Deep tank: N/A									
Port:									
Stbd:									

Ballast wing tanks: N/A									
No. 1 port:									
No. 1 stbd:									
No. 2 port:									
No. 2 stbd:									
No. 3 port:									
No. 3 stbd:									
No. 4 port:									
No. 4 stbd:									
No. 5 port:									
No. 5 stbd:									
No. 6 port:									
No. 6 stbd:									

10.3 Accommodation and deckhouses

Accommodation: crew	1								No. of berths 12
Accommodation: decoration and finishes	1								
Accommodation: lifts	1								
Accommodation: officers	1								No. of berths 2
Accommodation: passenger	1								No. of berths 672
Accommodation: structure	1								



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Deckhouses structure:										
No. 1:	1					1				
No. 2:	1					1				
No. 3:	1					1				
No. 4:	1					1				

Galley:										
	1									

HVAC rooms: structure: N/A										
No. 1:										
No. 2:										

Pump room: structure: N/A										
No. 1:										
No. 2:										
No. 3:										
No. 4:										

Refrigerated store rooms: N/A										
Beer:										
Dairy:										
Fish:										
Meat:										
Preparation:										
Vegetable:										

Store rooms:										



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

10.4 Deck outfit and life-saving equipment

Accommodation gangways:									
Port:	1								
Stbd:	1								

Bow door:	1								
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Side doors: N/A									
No. 1 port:									
No. 2 port:									
No. 1 stbd:									
No. 2 stbd:									

Stern door:	1								
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Bulwarks and railings:									
Port:	1								
Stbd:	1								

Walkways fwd/aft:	1								
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Funnel:	1								
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Lifeboats and davits: N/A									
No. 1:								Certified for persons	
No. 2:								Certified for persons	
No. 3:								Certified for persons	
No. 4:								Certified for persons	

Rescue boat:								Certified for persons	
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Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Lifebuoys:	1								
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Life rafts: 6pcs to be provided with each certified for 150 persons										
No. 1 port:									Certified for persons	
No. 1 stbd:									Certified for persons	
No. 2 port:									Certified for persons	
No. 2: stbd									Certified for persons	
Forecastle									Certified for persons	

Life raft hydrostatic releases:									
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Stores crane: N/A									
Port:									
Stbd:									
Bunker:									

Cargo cranes: N/A									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									

10.5 Mooring equipment

Anchors:									
Port:	1								
Stbd:	1								



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Aft:									
Spare:									

Chain stoppers:									
Port:	1								
Stbd:									
Aft:									

Cable lockers: N/A									
Port:									
Stbd:									
Aft:									

Cables:									
Port:	1								
Stbd:									
Aft:									

Capstan:									
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Emergency towing arrangements:									
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Fairleads:									
Mooring bollards:	1								
Panama leads:									

Mooring winches: N/A									
Aft:									
Main deck:									
Forecastle:									
Hydraulic power pack:									



Item	General condition				Coating condition			Seen operating? Yes/No	Remarks
	1	2	3	4	1	2	3		

Windlass:									
Aft:									
Main deck:									
Forecastle:	1								
Hydraulic power pack:	1								

10.6 Cargo handling systems and gear N/A

Ballast P/Ps:									
No. 1 P/P RM.:									
No. 2 P/P RM.:									
No. 3 P/P RM.:									
No. 4 P/P RM.:									

Cargo P/Ps:									
No. 1 P/P RM.:									
No. 2 P/P RM.:									
No. 3 P/P RM.:									
No. 4 P/P RM.:									

Cranes:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									
No. 6:									

Derricks:									
No. 1 port/stbd:									
No. 2 port/stbd:									
No. 3 port/stbd:									
No. 4 port/stbd:									
No. 5 port/stbd:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Derricks winches:									
No. 1 port/stbd:									
No. 2 port/stbd:									
No. 3 port/stbd:									
No. 4 port/stbd:									
No. 5 port/stbd:									

Hatch covers:									
Coamings:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									

Covers main deck:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									

Covers t'ween deck:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									

Cover mechanisms:									
No. 1:									
No. 2:									
No. 3:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

No. 4:									
No. 5:									

Manifolds:									
Cargo:									
Port:									
Stbd:									

Bunker:									
Forward:									
Amidships:									
After:									

Pipe systems:									
Cargo (on deck):									
Ballast (on deck):									
Cargo (P/P room):									
Ballast (P/P room):									

Gas/vent risers:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									

Heating coils:									
(List tanks):									
Inert gas system:									

P/V valves:									
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Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Vapour emission control system:									
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Ventilation:									
Cargo tanks/holds:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									
No. 5:									

Cargo pump rooms:									
No. 1:									
No. 2:									
No. 3:									
No. 4:									

10.7 Machinery – main

Main propulsion:									
Boilers: N/A									
Port:	1								
Stbd:	1								

Reduction gears:									
									MAIN ENGINES 4x MTU 16V 4000 M70 (2240kW @ 2000RPM) Cummins X2 Model/type: QSB7-DM power/speed:164KwX1500XRPM One emergency generator provided.

Clutches:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Main engine(s):										
Port:	1								No	
Stbd:	1								No	

Piping systems:										
Air-start:										
Air-control:										
Ballast:										
Bilge:										
Condensate:										
Fresh water:										
Diesel oil:										
Fuel oil:										
Hydraulic oil:										
Lub. Oil:										
Sea water:										

Propeller:										

Propeller control gear:										
Port:										
Stbd:										

Shafting:										
Intermediate:										
Tailshaft:										
Tailshaft (spare):										
Lifting gear:										
Intermediate bearing:										
Tailshaft bearing fwd:										
Tailshaft bearing aft:										
Oil seal fwd:										



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Oil seal aft:									
Tailshaft oil system:									

Thrusters:									
Fwd:									
Aft:									

10.8 Machinery – auxiliary

Auxiliary diesel generator engines:									
No. 1:	1								
No. 2:	1								
No. 3:									
No. 4:									
Emergency:									

Condensers: N/A									
Main:									
Auxiliary:									

Evaporators: N/A								Type and capacity T/D	
No. 1:									
No. 2:									

Compressors: N/A								Type	
Main no 1:									
Main no. 2:									
Control:									
Deck:									
Medical									

Fresh water generators: N/A								Type and capacity T/D	
No. 1:									
No. 2:									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Incinerator: N/A								Type and capacity T/D
No. 1:								
No. 2:								
Refrigeration (cargo): N/A								Type
No 1:								
No. 2:								

Refrigeration (domestic): N/A								Type
No 1:								
No. 2:								

Steering gear:								Type
No 1:	1							
No. 2:	1							

10.9 Safety equipment

Emergency fire pump:								Type and capacity T/H
Forward:								
Aft:								

Portable safety appliances:								
Accommodation:	1							
Engine room:	1							
Main deck:	1							
Cargo pump rooms:								
No. 1:								
No. 2:								
No. 3:								
No. 4:								

Fixed fire extinguishing systems:								
Engine room:								



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Boiler room:									
Accommodation:									
Main deck:									
Cargo holds:									
Pump rooms:									
Paint locker:									
CO ₂ room:									

Fire detection systems: Not checked									
Accommodation:									
Engine room:									
Pump rooms:									
Cargo holds:									
Other(s):									

Fuel shut-offs:									
Engine room:	1							no	
Emergency generator:	1							no	
Other:									

10.10 Electrical systems

Main switchboard:									
Instrumentation:	1							no	
Controls:	1							no	
Internal cleanliness:	1							no	
Wiring and cable termination:	1							no	
Name and warning plates:	1							no	

Emergency switchboard:									
Instrumentation	1							no	
Controls:	1							no	



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Wiring and cable termination:	1							no	
Name and warning plates:	1							no	
Automatic emergency generator starting:	1							no	

Shore connection:										
General condition:	1								no	

Distribution boards/starters/control panels and consoles:										
General condition:	1								no	

Cables:										
Terminations:	1								no	
Cable tray/clips:	1								no	
Identification:	1								no	
General condition:	1								no	

Lights:										
Accommodation block outside:	1								no	
Accommodation block inside:	1								no	
Engine room:	1								no	
On deck:	1								no	
Cargo pump rooms:										

Hazardous area electrical equipment: N/A										
Main deck:										
Pump rooms:										

Motors:										
Cable and glands:	1								no	
Vibration:	1								no	



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Cleanliness:	1							no	
--------------	---	--	--	--	--	--	--	----	--

Generators:									
Cable and glands:	1							No	
Vibration:	1							No	
Cleanliness:	1							No	

10.11 Bridge outfit

Communications external: Not test									
HF/MF radio:								No	
Satcom:									
VHF sets:								No	
Lifeboat VHF sets:									
EPIRBs/SARTs:									
Weatherfax:									

Communications internal: Not test									
Auto telephones:									
Battery/sound powered telephones:									
PA system:									
Walky talky sets:									

Flags:									
General:									

Manufacturer's instruction manuals:									
General:									

Navigation charts:									
Sufficiency for current trade:									
Last updated:									
Chart corrections									



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

onboard:									
Navigation instruments: Not checked									
Anemometer:									
Autopilot:									
Chronometers:									
Echo sounder:									
Engine remote control:									
Gyro compass:									
Loading computer:									
Log:									
Magnetic compass:									
Nav/signal lights:									
Positioning equipment:									
Radars:									
Rudder angle indicators:									
Thruster control:									
Whistles:									

10.12 Fuel, L.O. and boiler water tests and consumption **Not checked**
 (taken from deck/engine log books)

Heavy oil:	Grade:	Samples on board Yes/No:	Consumption:		
			Loaded:	Ballast:	Average speed:

Diesel oil:	Grade:	Samples on board Yes/No:	Consumption:		
			Loaded:	Ballast:	Average speed:
MDO/gas oil:					



Item	General condition				Coating condition			Seen operating?	Remarks
	1	2	3	4	1	2	3	Yes/No	

Lubricating oil:	Grade:	Last tested:	Consumption:		
			Loaded:	Ballast:	Average speed:
Main engine crankcase:					
Main engine cylinder:					
Diesel generator:					
Stern tube:					

10.13 Supporting technical documents (appended to report):

Plans:	
Logs:	
Thickness measurements:	
Spare gear inventories:	
Main engine crankshaft deflections:	
Main engine liner calibrations:	
Auxiliary engine crankshaft deflections:	
Lub oil reports:	
Boiler water reports:	
Photographs:	Yes
Sea trial Report	Yes



Pre-purchase Condition Survey

Photographs – MV" DOÑA MERCEDES" LR No. 9772888

Lloyd's Register Classification Society (China) Co., Ltd.

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6. Upper deck Tourist class seat(S).....	
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24. No.5 Void space(P).....	
25.Engine room(P).....	
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- 33.No.2 void space.....
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- 58.Port inner main engine
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- 60.Stbd outer main engine.....
- 61.Port Generator.....
- 62. Stbd Generator
- 63.Port generator control panel.....
- 64.stbd generator control panel
- 65.Port steering gear.....
- 66.Stbd steering gear
- 67. Bow thruster (in the no.2 void space (P.Side only))
- 68.Oil water separator (in the stbd side engine room only)
- 69.Oil content meter(in the stbd side engine room only).....



- 70. Sewage treatment plant in the no.4 void space (P.side only).....
- 71. Emergency generator



Section 2 – Photographs

1.



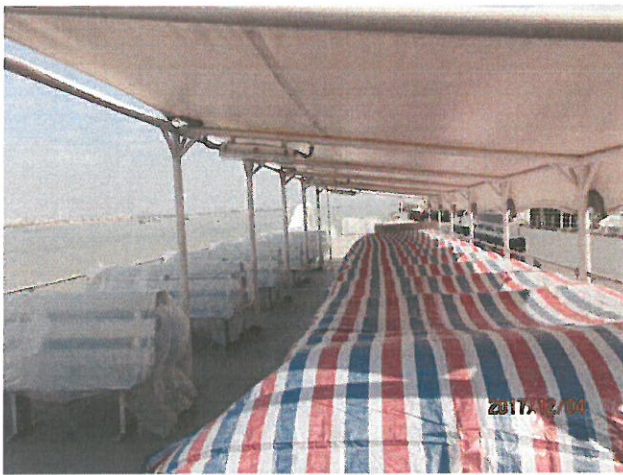
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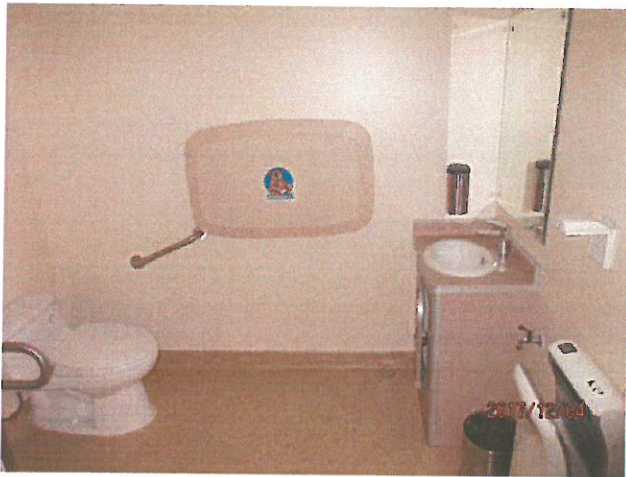


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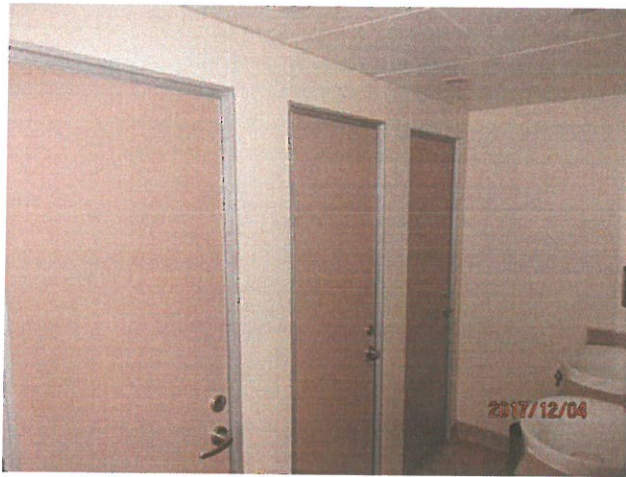
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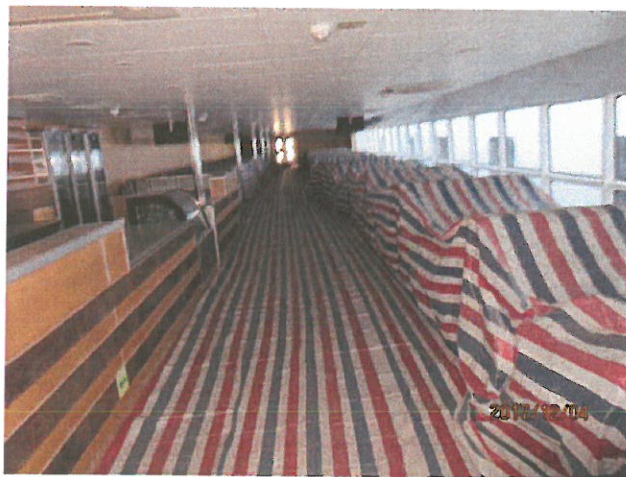
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11.



12.



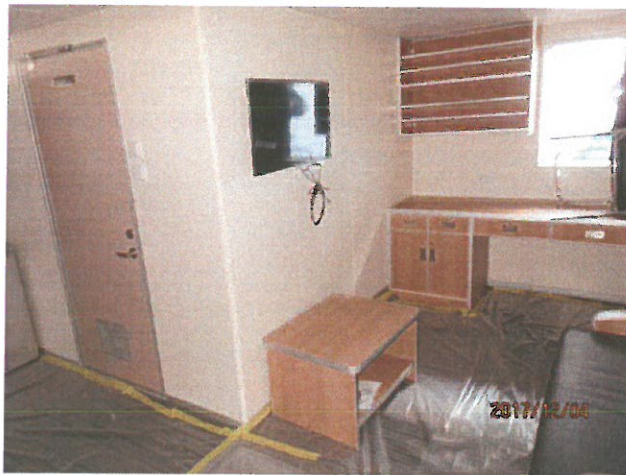
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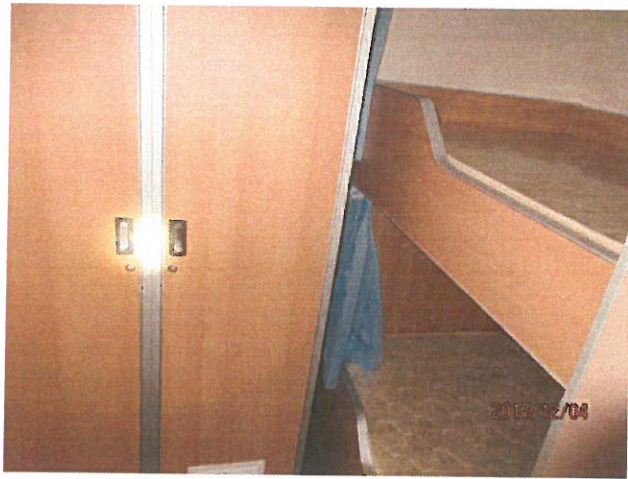


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15.

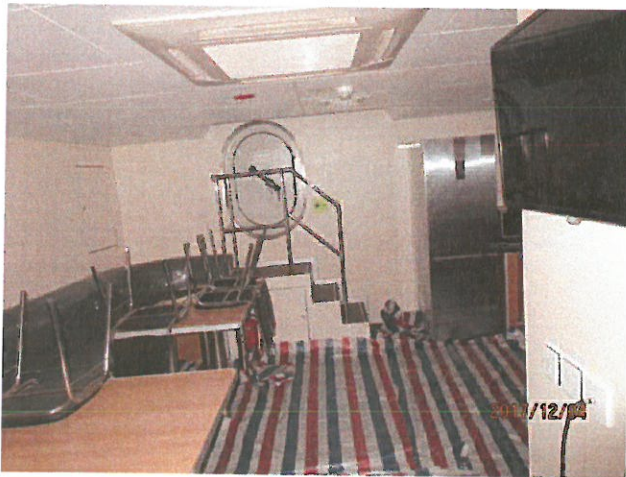




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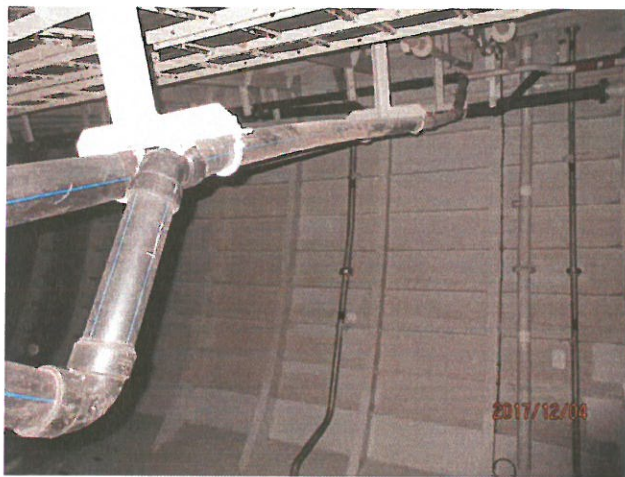
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22.



23.

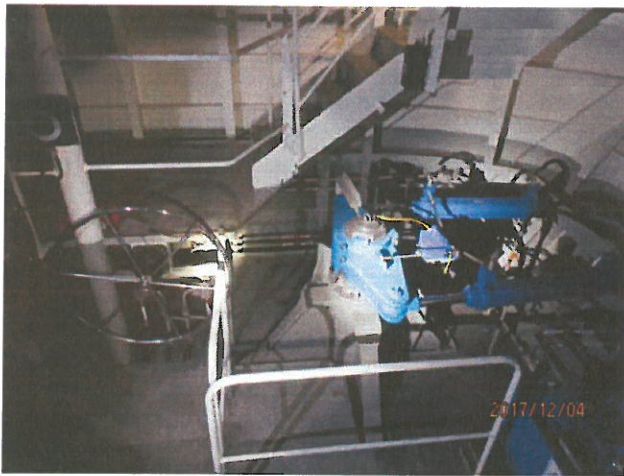


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26.



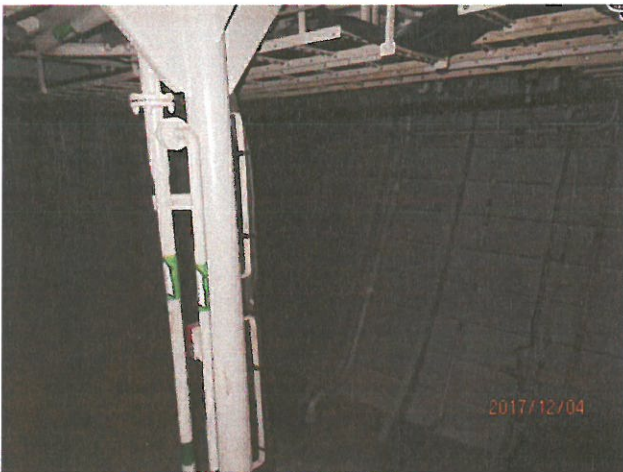
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42.



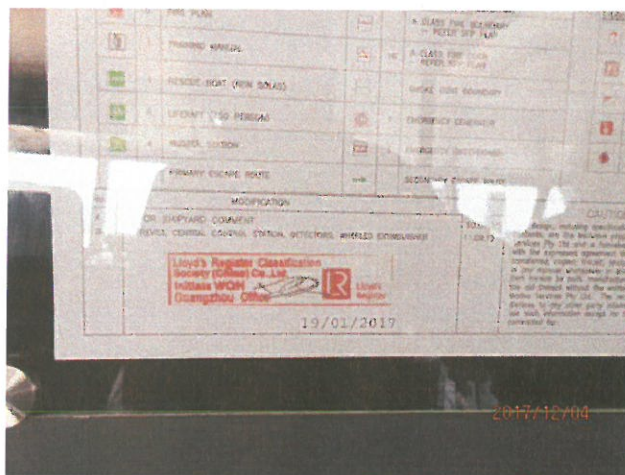
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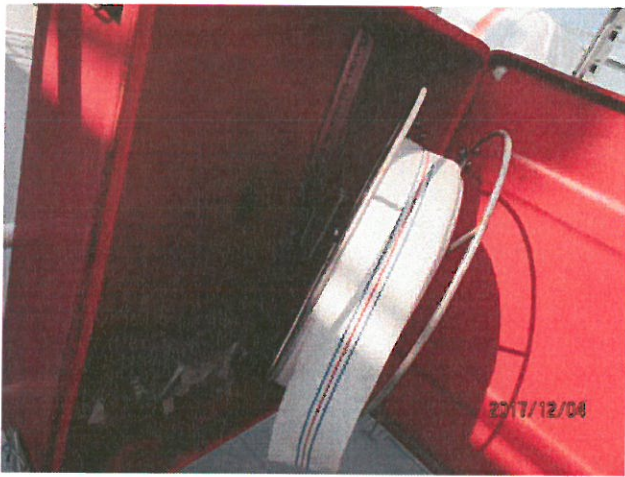


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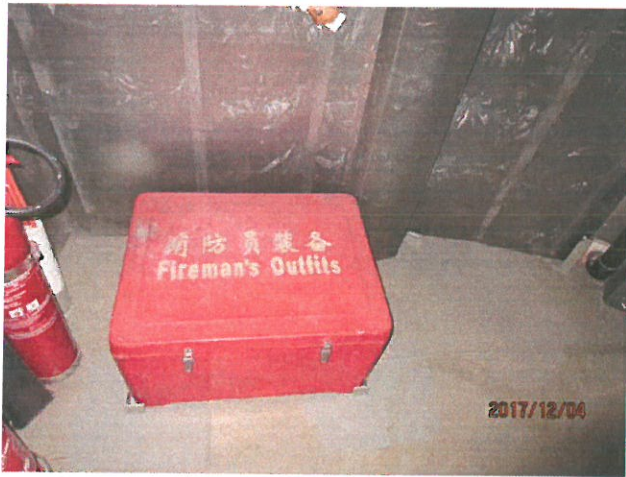


47.



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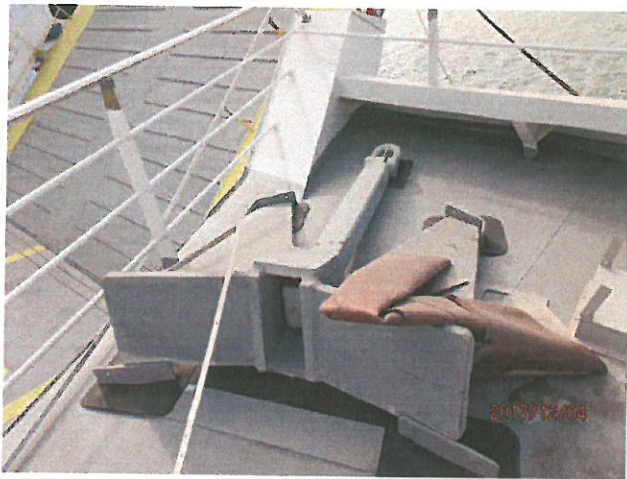


54.





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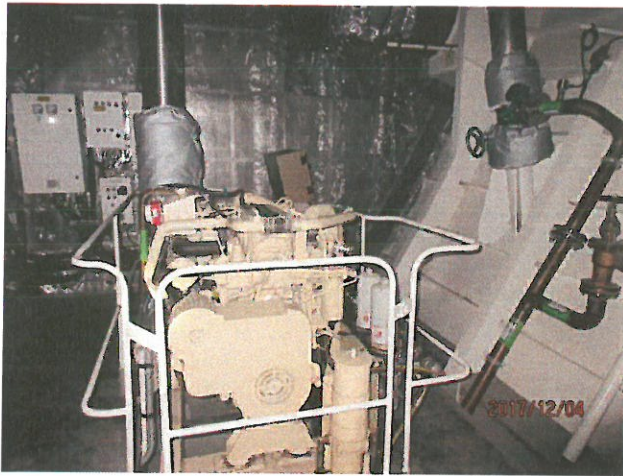
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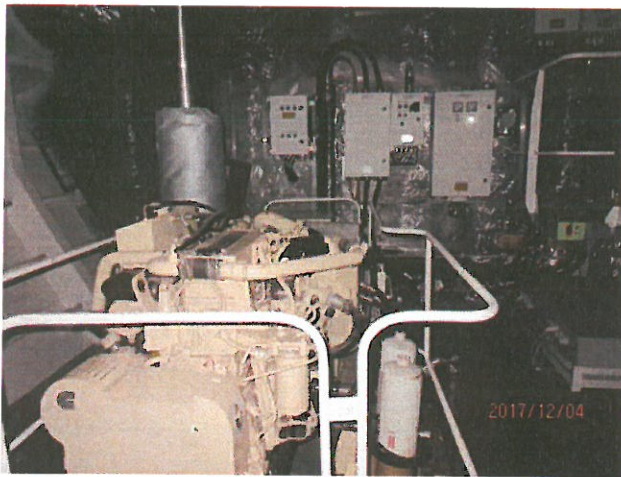
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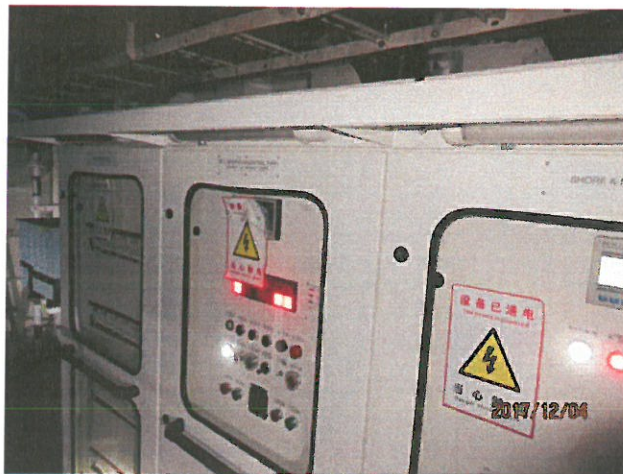
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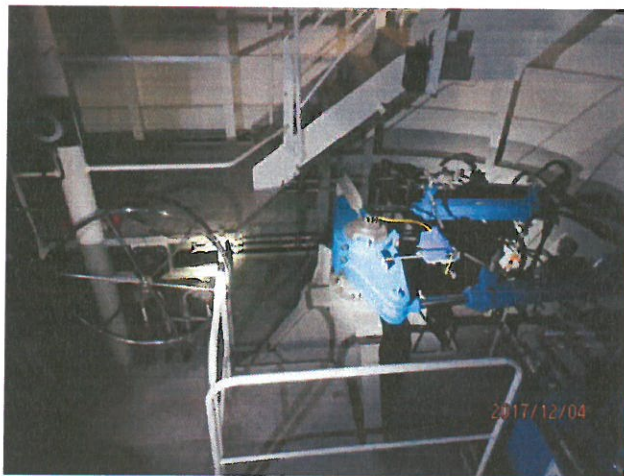
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广东新船重工有限公司
Guangdong Bonnyfair Heavy Industry Limited

航行试验报告

Sea trial report

73.6m ROPAX CATAMARAN FERRY

产品名称 Pro Name: DOÑA MERCEDES
产品编号 Hull No: HY-2186



船舶试验记录

INSPECTION AND TEST RECORD

广东新船重工有限公司

Guangdong Bonnyfair Heavy Industry Limited

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广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

航行试验状态记录单
Sea Trial Conditions Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
Meteorological And Waters Conditions 气象和水域条件					
天气: Weather:	sunny	风速: Wind Speed:	0.3 m/s	风向: Wind Direction:	northeast
气温: Air Temp.:	18° C	气压: Air Pressure:	\ Pa	能见度: Visibility:	\ m
水深: Depth of Water:	28 m	浪高: Wave Height:	\ m	流速: Water Speed:	1.5 m/s
Draft Readings 吃水读数					
位置: Location:	左舷: Port:	右舷: Starboard:			
Forward 艏	2.56 m	2.5 m			
Midship 舢	\ m	2.48 m			
Aft 艉	2.53 m	2.48 m			
水比重: Water S.G.	0.999	水温: Water Temp.:	17° C	纵倾状态: Trim State:	trim by stem
试验地点: Test Place:	surrounding areas of guishan island	试验日期: Test Date:	2016/11/30	船舶状况: Ship Condition:	well
开始时间: Start Time:	9:00		结束时间: End Time:	23:30	
备注 Remarks					
质检 QC	<i>Zhuo Zhang 30/11/2016</i>				
船级社 LR class	<i>[Signature] 30/11/2016</i>				
船东 Owner	<i>[Signature] 30 NOV 2016</i>				



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

航行试验状态记录单
Sea Trial Conditions Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				日期: 2017.7.11 Date: July 11, 2017
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
Meteorological And Waters Conditions 气象和水域条件					
天气: Weather:	sunny	风速: Wind Speed:	0.3 m/s	风向: Wind Direction:	southwest
气温: Air Temp.:	29° C	气压: Air Pressure:	— Pa	能见度: Visibility:	— m
水深: Depth of Water:	28 m	浪高: Wave Height:	— m	流速: Water Speed:	1.5 m/s
Draft Readings 吃水读数					
位置: Location:	左舷: Port:	右舷: Starboard:			
Forward 艏	2.58 m	2.55 m			
Midship 舯	— m	— m			
Aft 艉	2.55 m	2.55 m			
水比重: Water S.G.	1	水温: Water Temp.:	28°	纵倾状态: Trim State:	trim by stem
试验地点: Test Place:	surrounding areas of guishan islnd	试验日期: Test Date:	11-Jul-17	船舶状况: Ship Condition:	well
开始时间: Start Time:	9:30		结束时间: End Time:	0:30	
备注 Remarks					
质检 QC	[Signature] 2017-7-11				
船级社 LR class					
船东 Owner	[Signature] 2017-9-4				



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

航行试验状态记录单 Sea Trial Conditions Record Sheet					
船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				日期: 2017.8.30 Date: Aug 30, 2017
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
Meteorological And Waters Conditions 气象和水域条件					
天气: Weather:	cloudy sky	风速: Wind Speed:	— m/s	风向: Wind Direction:	southwest
气温: Air Temp.:	° C	气压: Air Pressure:	— Pa	能见度: Visibility:	— m
水深: Depth of Water:	— m	浪高: Wave Height:	— m	流速: Water Speed:	— m/s
Draft Readings 吃水读数					
位置: Location:	左舷: Port:		右舷: Starboard:		
Forward 艏	2.54 m		2.51 m		
Midship 舯	— m		— m		
Aft 艉	2.51 m		2.5 m		
水比重: Water S.G.	1	水温: Water Temp.:	—° C	纵倾状态: Trim State:	trim by stem
试验地点: Test Place:	surrounding areas of guishan islnd	试验日期: Test Date:	30-Aug-17	船舶状况: Ship Condition:	well
开始时间: Start Time:	10:30		结束时间: End Time:	20:00	
备注 Remarks					
质检 QC					
船级社 LR class					
船东 Owner					



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

航行试验压载状态记录单
Sea Trial Ballast Conditions Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888

序号 serial no.	舱名 name of tank	位置 location	试航前液面高度 (mm) sounding before sea trail	试航后液面高度 (mm) sounding after sea trail
01	FO OVERFLOW TANK 燃油溢流舱	FR7~8	0	0
02	FO DAY TANK (P) 燃油日用舱 (P)	FR9~15	1360	1340
03	FO DAY TANK (S) 燃油日用舱 (S)	FR9~15	1350	1210
04	FO TANK 03 (P) 燃油舱 03 (P)	FR26~31	0	0
05	FO TANK 03 (S) 燃油舱 03 (S)	FR26~31	0	0
06	FO TANK 04 (P) 燃油舱 04 (P)	FR44~49	0	0
07	FO TANK 04 (S) 燃油舱 04 (S)	FR44~49	0	0
08	FRESH WATER TANK 淡水舱	FR26~31	1500	1500
09	LUBRICATE OIL TANK 滑油舱	FR8~9	0	0
10	DIRTY OIL TANK 油污舱	FR7~8	0	0
11	BILGE WATER TANK 舱底水舱	FR8~9	1250	1250
12	GREY WATER TANK (P) 灰水罐 (P)	FR28~31	0	0
13	GREY WATER TANK (S) 灰水罐 (S)	FR28~31	0	0
14	GREY WATER TANK (S) 灰水罐 (S)	FR30~31	0	0

位置 location	实际压载 (T) site ballast	设计压载 (T) designed ballast		实际压载 (T) site ballast	备注
FR56		21		29.037	
FR53-100		33		33.4	
FR49+1000		21		20.506	
FR47-350		21		21.14	
FR44-550		21		19.8	
FR25-50	11.73	16	16	11.59	
FR16+150	16.2	16.5	16.5	17	
FR7+350	16.3	16.5	16.5	16.3	

质检 QC	<i>Zhush Zhang 29/11-2016</i>				
船级社 LR class	<i>[Signature] 30/11/2016</i>				
船东 Owner	<i>[Signature] Eric Chu 30 Nov 2016</i>				



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

左机舱外侧主机试验记录单
Port Machine Room Outside Main Engine Test Record Sheet

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY															
船号: HULL NO.:		HY-2186			船级社: Classification			LR		IMO No.:		9772888					
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温度 C.W.T (°C)	冷却水压力 C.W.P (bar)	进气压力 B.A.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)					齿轮箱 Gear Box	
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机 飞 轮端 Main engine flywheel	液压油 压力 Hyd.O.P (bar)	滑油温度 L.O.T (°C)	
50%	1587	13:18	6.5	81	7	84	3.4	1.98	562	586	32	45	49	55	19.7	50	
75%	1817	13:53	6.7	83	7.1	87	4.3	2.85	615	622	33	45	50	53	19.8	51	
85%	1895	15:02	6.8	83	7.1	86	4.5	2.94	657	663	33	46	50	54	19.6	53	
100%	2000	18:58	6.8	86	7.2	88	5	3.17	661	667	34	47	52	56	19.8	54	
	2000	20:06	6.7	85	7	87	5	3.19	665	668	35	47	52	57	19.7	56	
	2000	21:07	6.8	86	7.1	84	4.9	3.18	670	671	34	48	53	58	19.8	56	
	2000	22:15	6.9	86	7.1	89	5	3.19	672	673	34	46	51	58	19.7	55	
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
倒车 ASTERN																	
70%	1771	23:07	6.7	82	7	87	3.4	2.56	588	590	32	47	49	53	19.8	51	
备注 Remarks																	
质检 QC	于 2016.11.15																
船级社 LR class	15/11/2016																
船东 Owner	15 Nov 2016																



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

左机舱内侧主机试验记录单
Port Machine Room Inside Main Engine Test Record Sheet

73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY																					
船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY																			
船号: HULL NO.:		HY-2186				船级社: Classification			LR		IMO No.:		9772888								
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)		滑油温度 L.O.T (°C)		燃油压力 F.O.P (bar)		冷却水温度 C.W.T (°C)		冷却水压力 C.W.P (bar)		进气压力 B.A.P (bar)		排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)			齿轮箱 Gear Box	
			A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主引擎 轮端 Main engine flywheel	液压油 压力 Hyd. O.P (bar)	滑油温度 L.O.T (°C)											
50%	1587	13:20	6.5	79	7.1	84	3.5	1.91	578	591	33	46	52	56	19.7	49					
75%	1817	13:49	6.6	82	7.2	87	4.6	2.89	616	618	34	47	50	53	19.8	51					
85%	1895	15:04	6.7	83	7.1	87	4.7	2.94	661	665	34	47	49	53	19.6	53					
100%	2000	18:55	6.8	85	7.2	88	5	3.18	676	679	32	48	52	58	19.8	54					
	2000	20:03	6.9	86	7	89	5.1	3.19	680	678	33	47	52	59	19.7	56					
	2000	21:08	6.8	85	7.1	88	5	3.21	671	673	33	48	53	58	19.8	56					
	2000	22:13	6.9	85	7.1	89	5	3.2	679	680	33	46	50	58	19.8	55					
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
倒车 ASTERN																					
70%	1771	23:10	6.7	82	7	87	4.3	2.92	605	611	32	48	49	53	19.8	52					
备注 Remarks																					
质检 QC	于斌 2016.11.15																				
船级社 LR class	15/11/2016																				
船东 Owner	CHTR 15 NOV 2016																				



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

右机舱内侧主机试验记录单
Starboard Machine Room Inside Main Engine Test Record Sheet

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY															
船号: HULL NO.:		HY-2186				船级社: Classification				LR		IMO No.:		9772888			
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温度 C.W.T (°C)	冷却水压力 C.W.P (bar)	进气压力 B.A.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)				齿轮箱 Gear Box		
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机 轮端 Main engine flywheel	液压油 压力 Hyd.O.P (bar)	滑油温度 L.O.T (°C)	
50%	1587	13:22	6.3	79	6.9	81	2.6	2.08	585	593	36	46	52	56	19.8	52	
75%	1817	13:53	6.4	83	7	86	3.4	2.81	625	628	30	48	56	58	19.8	53	
85%	1895	17:01	6.5	85	7.1	88	4.3	2.86	672	669	37	49	55	59	19.8	54	
100%	2000	19:00	6.8	87	7	91	4.9	3.19	671	674	34	52	57	61	19.8	55	
	2000	20:03	6.9	88	7	92	4.9	3.17	679	678	36	51	58	61	19.7	56	
	2000	21:13	6.9	88	7.1	91	5	3.18	680	679	35	53	55	62	19.7	58	
	2000	22:17	6.8	88	7.1	91	4.8	3.17	682	679	36	54	58	61	19.7	57	
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
倒车 ASTERN																	
70%	1771	23:06	6.7	82	7	87	3.4	2.56	610	612	39	48	55	57	19.8	53	
备注 Remarks																	
质检 QC	[Signature]																
船级社 LR class	[Signature] 15/11/2016																
船东 Owner	[Signature] 15 Nov 2016																



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

右机舱外侧主机试验记录单
Starboard Machine Room outside Main Engine Test Record Sheet

船名: Hull Name:		76.6米车客渡船 73.6m ROPAX CATAMARAN FERRY														
船号: HULL NO.:		HY-2186				船级社: Classification			LR		IMO No.:		9772888			
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温 度C.W.T (°C)	冷却水压 力C.W.P (bar)	进气压力 B.A.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)				齿轮箱 Gear Box	
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机飞 轮端 Main engine flywheel	液压油 压力 Hyd.O.P (bar)	滑油温度 L.O.T (°C)
50%	1587	13:23	6.6	81	7	87	2.9	2.01	566	592	37	47	52	56	19.8	52
75%	1817	13:50	6.8	85	7	87	4.3	2.81	595	597	41	49	53	58	19.8	54
85%	1895	15:03	6.9	89	7.1	88	4.7	2.8	661	665	39	51	57	59	19.8	55
100%	2000	18:58	7	89	7	91	5.1	3.19	671	675	39	52	59	61	19.8	57
	2000	20:06	7.1	88	7	92	5.2	3.19	673	677	38	52	59	61	19.7	57
	2000	21:10	7.1	88	7.1	91	5.3	3.18	671	673	38	53	57	63	19.7	58
	2000	22:16	7	89	7.1	91	5.2	3.18	671	675	38	52	58	61	19.7	57
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
倒车 ASTERN																
70%	1771	23:08	6.7	82	7	87	3.4	2.56	588	590	39	48	54	56	19.8	54
备注 Remarks																
质检 QC	李转 2016.11.15															
船级社 LR class	15111/0016															
船东 Owner	15 Nov 2016															



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

左机舱外侧主机试验记录单
Port Machine Room Outside Main Engine Test Record Sheet

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY												日期: 2017.7.11 Date: July 11, 2017		
船号: HULL NO.:		HY-2186			船级社: Classification			LR		IMO No.:		9772888				
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温 度C.W.T (°C)	冷却水压力 C.W.P (bar)	进气压力 B.S.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)				齿轮箱 Gear Box	
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机飞 轮端 Main engine flywheel	液压油 压力 H.d.O.P (bar)	滑油温度 L.O.T (°C)
50%	1587	13:03	6.3	81	7.1	86	3.6	2.53	502	529	32.2	49	50	52.1	19.9	48
75%	1817	13:25	6.3	85	7.1	86	4.1	2.53	584	585	33	48	51	53.5	19.6	50
85%	1895	13:40	6.6	85	7.1	88	4.7	2.51	651	655	33	50	50	54	20	53
100%	2000	14:10	6.7	85	7.1	88	5.1	3.15	672	678	35	50	51	57	19.9	55
	2000	14:05	6.7	85	7	88	5	3.14	671	675	33.2	53.2	53.1	56	19.9	56
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
倒车 ASTERN																
70%	1302	16:57	6	76	6.6	82	2.1	19.2	425	435	35.1	49	50	56	19.5	54
备注 Remarks																
岸轮 QC	Hofe 2017.7.11															
船级社 LR class																
船东 Owner	B 2017.7.17															



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

左机舱内侧主机试验记录单
Port Machine Room Inside Main Engine Test Record Sheet

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY												日期: 2017.7.11 Date: July 11, 2017		
船号: HULL NO.:		HY-2186				船级社: Classification			LR		IMO No.:		9772888			
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温 质.C.W.T (°C)	冷却水压 力.C.W.P (bar)	进气压力 B.A.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)				齿轮箱 Gear Box	
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机飞 轮油 Main engine flywheel	液压力 Hyd.O.P (bar)	滑油温度 L.O.T (°C)
50%	1587	13:01	6.4	80	7	82	3.3	17.4	558	566	33	49.5	50.07	50	19.6	50
75%	1817	13:27	6.6	85	7.2	85	4.3	2.33	572	583	33	50	51	52	2	50
85%	1855	13:42	6.4	85	7.2	87	4.5	2.71	661	663	33	50	53	55	19.7	54
100%	2000	14:05	6.5	86	7.1	88	4.8	3.16	672	674	35	48	50	55	19.4	57
	2000	14:50	6.7	85	7.1	88	4.9	3.14	673	675	34	52	53	56	19.4	57
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
倒车 ASTERN																
	1301	15:55	6.2	83	7.1	85	4.2	2.12	557	559	33	50	51	52	19.5	52
备注 Remarks																
质检 QC	7/11/2017															
船级社 LR class																
船东 Owner	GB 2017.7.17															



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

右机舱内侧主机试验记录单
Starboard Machine Room Inside Main Enginer Test Record Sheet

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY											日期: 2017.7.11 Date: July 11, 2017			
船号: HULL NO.:		HY-2186			船级社: Classification			LR		IMO No.:		9772888				
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温 度C.W.T (°C)	冷却水压 力C.W.P (bar)	进气压力 B.A.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)				齿轮箱 Gear Box	
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机飞 轮滑 油 Main engine Flysheel	液压油 压力 Hyd.O.P (bar)	滑油温度 L.O.T (°C)
50%	1587	13:05	6	81	6.8	84	3.4	2.72	524	535	33	49	52	53	19.7	51
75%	1817	13:25	6.3	83	6.9	85	4.3	2.55	599	599	33.6	45	53	53	19.8	52
85%	1895	13:45	6.5	84	6.9	87	4.7	2.83	679	673	34.3	51	53.1	54	19.7	55
100%	2000	14:05	6.5	85	6.9	88	5.1	3.15	680	674	34.5	53	56	56	19.7	56
	2000	14:52	6.5	88	7	88	5.1	3.17	682	678	35	51	55	56	19.9	56
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
倒车 ASTERS																
	1297	15:55	538	77	6.8	77	2.4	1.59	401	391	35.4	49.3	49.9	50	19.5	51
备注 Remarks																
质检 QC	[Signature] 2017.7.11															
船级社 LR class																
船东 Owner	[Signature] 2017.7.17															



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

右机舱外侧主机试验记录单
Starboard Machine Room outside Main Engine Test Record Sheet

船名: Hull Name:		76.6米车客渡船 73.6m ROPAX CATAMARAN FERRY										日期: 2017.7.11 Date: July 11, 2017				
船号: HULL NO.:		HY-2186			船级社: Classification			LR		IMO No.:		9772888				
负荷 Load (%)	转速 RPM	时间 (h)	滑油压力 L.O.P (bar)	滑油温度 L.O.T (°C)	燃油压力 F.O.P (bar)	冷却水温度 C.W.T (°C)	冷却水压力 C.W.P (bar)	进气压力 B.A.P (bar)	排气温度 Exhaust Gas Temp. (°C)		温度 Temp. (°C)				齿轮箱 Gear Box	
									A	B	轴封 shaft seal	齿轮箱 输出 gearbox output	齿轮箱 输入 gearbox input	主机飞 轮滑 油 Main engine flywheel	液压油 压力 Hyd.O.P (bar)	滑油温度 L.O.T (°C)
50%	1587	13:02	65	42	7	84	33	2.6	505	525	34	49	50.2	51	19.9	58
75%	1817	13:25	6.6	83	7.1	86	4.1	2.32	581	588	34.1	49.6	53	53	20	50
85%	1895	13:44	6.6	84	7.1	87	4.4	2.36	658	644	34.2	50.6	53.8	56	19.9	56
100%	2000	14:05	6.9	87	7	90	4.9	3.18	679	679	34.3	51	55	56	19.9	54
	2000	14:51	6.9	86	7.1	90	4.9	3.18	673	675	34.8	51	54	56	20	55
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110%	2065	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
倒车 ASTERN																
	1296	15:50	6	78	6.8	81	2.1	1.8	429	437	35.6	49.4	50.5	52.1	19.7	51
备注 Remarks																
质检 QC	2017.7.11															
船级社 LR class																
船东 Owner	2017.07.17															



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

左柴油发电机记录单
Left Diesel Generator Parameters Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY										
船号: HULL NO.:	HY-2186			船级社: Classification			LR	IMO No.:		9772888	
Engine 柴油机						Generator发电机					
Type 型号			QSB7-DM			Type型号			YP125MXDG		
Serial No 系列号			22171858			Serial No 系列号			KC15113335		
Rated power 额定功率			164kW			Rated power 额定功率			125kW		
Rated speed 额定转速			1500rpm			Rated speed 额定转速			1500rpm		
时间 (time)	电流 (A)			电压 (V)	功率 (Kw)	频率 (Hz)	功率因数 (CoS φ)	滑油压力 L. O. Pressure (bar)	淡水冷却器温度 Fresh W. cooler Tem. (° C)	转速 (rpm)	
	A	B	C								
11:00	166	188	203	400	94	50.0	0.81	3.4	68	1499	
12:00	145	171	199	398	91	50.1	0.77	3.4	68	1499	
13:00	146	166	155	398	91	50.1	0.77	3.4	68	1499	
14:00	166	180	174	399	91	50.0	0.75	3.3	70	1499	
15:00	169	179	170	399	93	50.0	0.79	3.3	70	1499	
16:00	152	162	156	399	85	50.0	0.79	3.3	70	1499	
备注 Remarks											
质检 QC	丁显清 2016.11.15										
船级社 LR class	15111/2016										
船东 Owner	15/11/2016										



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

右柴油发电机记录单
Right Diesel Generator Parameters Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY									
船号: HULL NO.:	HY-2186			船级社: Classification	LR	IMO No.:	9772888			
Engine 柴油机					Generator发电机					
Type 型号	QSB7-DM				Type型号	YP125MXDG				
Serial No 系列号	22172015				Serial No 系列号	KC15113338				
Rated power 额定功率	164kW				Rated power 额定功率	125kW				
Rated speed 额定转速	1500rpm				Rated speed 额定转速	1500rpm				
时间 (time)	电流 (A)			电压 (V)	功率 (Kw)	频率 (Hz)	功率因数 (CoS φ)	滑油压力 L.O. Pressure (bar)	淡水冷却器温度 Fresh W. cooler Tem. (° C)	转速 (rpm)
	A	B	C							
9:00	232	229	231	399	113	50	0.78	3.5	66	1501
10:00	166	186	200	399	100	50.1	0.78	3.5	66	1501
1:00	80	94	97	399	46	50	0.77	3.9	69	1501
2:00	124	130	127	399	69	50.1	0.79	3.6	69	1502
3:00	105	110	111	399	57	50	0.78	3.7	69	1502
4:00	90	94	96	399	52	50	0.79	3.8	69	1502
备注 Remarks										
质检 QC	丁显清 2016.11.15									
船级社 LR class	15116/2016									
船东 Owner	15 Nov 2016									



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

机舱自动化试验记录单
Engine Room Automation Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY								
船号: HULL NO.:	HY-2186	船级社: 劳氏 Classification: LR			IMO No. :97728888				
试验项目 Test Items	左内 INBOARDM/E PT		左外 OUTBOARDM/E PT		右内 INBOARDM/E SB		右外 OUTBOARDM/E SB		结果 Remarks
	驾驶室 W/H	机舱 E/R	驾驶室 W/H	机舱 E/R	驾驶室 W/H	机舱 E/R	驾驶室 W/H	机舱 E/R	
驾驶室向机舱控制转换 Change Over W/H to E/R	OK	OK	OK	OK	OK	OK	OK	OK	
机舱向驾驶室控制转换 Change Over E/R to W/H	OK	OK	OK	OK	OK	OK	OK	OK	
主机停车 Main Engine Stop	OK	OK	OK	OK	OK	OK	OK	OK	
主机调速 Main Engine Speed	OK	OK	OK	OK	OK	OK	OK	OK	
主机启动 Main Engine start	OK	OK	OK	OK	OK	OK	OK	OK	
主机紧急停车 Main Engine E-Stop	OK	OK	OK	OK	OK	OK	OK	OK	
备注 Remarks									
质检 QC	丁显清 2016.11.15								
船级社 LR class	15/11/2016								
船东 Owner	15 Nov 2016								



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

航速试验记录单(一)
Speed Of Ships Test Record Sheet(一)

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888

次数 No.	时间 Time	0	10	20	30	40	50	60	70	80	90	
		航速 speed (nm/h)	21.3	21.3	21.4	21.5	21.5	21.3	21.6	21.6	21.5	21.6
1	时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
	航速 speed (nm/h)	21.6	21.4	21.3	21.5	21.5	21.4	21.5	21.5	21.3	21.45	
	2	时间 Time	0	10	20	30	40	50	60	70	80	90
		航速 speed (nm/h)	21.5	21.5	21.4	21.5	21.4	21.9	21.9	21.6	21.4	21.6
3	时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
	航速 speed (nm/h)	21.7	21.1	21.3	21.7	21.8	21.8	21.6	21.6	21.5	21.57	
	4	时间 Time	0	10	20	30	40	50	60	70	80	90
		航速 speed (nm/h)	21.8	21.7	21.5	22.1	22.2	21.6	21.7	21.9	22	21.6
5	时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
	航速 speed (nm/h)	21.3	21.6	22.3	22.2	21.7	21.4	22.1	22.2	21.6	21.82	
	6	时间 Time	0	10	20	30	40	50	60	70	80	90
		航速 speed (nm/h)	23	23	22.9	23	23	23	23.1	23.1	23.1	23.1
7	时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
	航速 speed (nm/h)	23.1	23	23.1	23.1	23.1	22.9	22.9	23	23	23.03	
	8	时间 Time	0	10	20	30	40	50	60	70	80	90
		航速 speed (nm/h)	23.2	23.2	23.1	23.1	23.1	22.9	23	23	23	23.2
9	时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
	航速 speed (nm/h)	23.1	23.1	23.1	23.2	23	23	23	23.1	23.1	23.08	
	10	时间 Time	0	10	20	30	40	50	60	70	80	90
		航速 speed (nm/h)	23	23	23	22.9	22.8	22.8	22.8	22.8	22.8	22.9
11	时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
	速度 speed (nm/h)	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.81	

备注 Remark: 以上数据以船上GPS测出的数据。顺逆水共6个单程，取平均值，测出平均航速 22.30 海里/小时。
The above data were read by the GPS. Downstream and adverse current together 6 times, the average speed is 22.30 nm/h.

质检 QC: *Zhang Sheng 2011-2016*

船级社 LR class: *LR 2011/2016*

船东 Owner: *CHC 2011/2016*



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

航速试验记录单(二)
Speed Of Ships Test Record Sheet(二)

船名: Full Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888

次数 No.	转速 M/E speed (rpm)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
		1	航速 speed (nm/h)	12.1	13.3	14.2	15.6	16.8	17.4	18.9	20.8	21.9
2	航速 speed (nm/h)	12.2	13.4	14.3	15.7	16.8	17.5	19	20.9	22	22.9	\
3	航速 speed (nm/h)	12.2	13.5	14.4	15.8	16.7	17.6	18.9	20.9	22.1	22.9	\
4	航速 speed (nm/h)	12.2	13.5	14.4	15.9	16.7	17.5	19.1	20.9	22.1	23	\
5	航速 speed (nm/h)	12.2	13.5	14.3	15.9	16.7	17.5	19	21	22.2	23	\
	平均航速 average speed	12.18	13.41	14.32	15.78	16.74	17.5	18.98	20.9	22.06	22.94	\

次数 No.	转速 M/E speed (rpm)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
		1	航速 speed (nm/h)	10.6	11.4	12.3	13.9	14.5	15.3	16.9	18.5	19.4
2	航速 speed (nm/h)	10.6	11.5	12.3	14	14.5	15.3	16.9	18.5	19.4	20.2	\
3	航速 speed (nm/h)	10.6	11.6	12.4	14	14.5	15.4	16.8	18.5	19.4	20.1	\
4	航速 speed (nm/h)	10.5	11.6	12.4	14	14.6	15.4	16.9	18.5	19.4	20.2	\
5	航速 speed (nm/h)	10.4	11.6	12.5	13.9	14.5	15.4	16.8	18.5	19.4	20.1	\
	平均航速 average speed	10.51	11.54	12.38	13.96	14.52	15.36	16.86	18.5	19.4	20.14	\

顺流&逆流 Downstream & Adverse Current	平均航速 average speed	11.36	12.49	13.35	14.87	15.63	16.43	17.92	19.7	20.73	21.54	\
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备注
Remark

每种转速状态每一分钟记录一次,共记录5次,以上数据以船上GPS测出的数据,顺逆水共2个单程,取平均值,测出平均航速海里/小时。
Each trial should measure the vessel speed of 1 round trip. Record the data each 1 minute, total 5 times. the above data were read by the GPS. Downstream and adverse current together 2 times, the average speed is nm/h.

质检
QC

Zhuo Zhang 30/11/2016

船级社
LR class

30/11/2016

船东
Owner

30 Nov 2016



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

航速试验记录单(一)
Speed Of Ships Test Record Sheet(一)

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY										日期: 2017.7.11 Date: July 11, 2017	
船号: HULL NO.:		HY-2186			船级社: Classification			LR		IMO No.:		9772888	
高流速区 High current area	逆流 Adverse Current	时间 Time	0	10	20	30	40	50	60	70	80	90	
		航速 speed (nm/h)	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.3	19.3
		时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
		航速 speed (nm/h)	19.3	19.4	19.5	19.5	19.5	19.6	19.7	19.8	19.8	19.39	
	顺流 downstream	时间 Time	0	10	20	30	40	50	60	70	80	90	
		航速 speed (nm/h)	24.7	24.7	24.8	24.7	24.8	24.8	24.8	24.8	24.7	24.7	
		时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
		航速 speed (nm/h)	24.7	24.7	24.7	24.5	24.6	24.6	24.6	24.6	24.5	24.5	24.67
	平均航速 average speed (nm/h)		22.03 浬/小时 22.03nm/h										
	低流速区 Low current area	逆流 Adverse Current	时间 Time	0	10	20	30	40	50	60	70	80	90
航速 speed (nm/h)			22.1	22	22	22	22	22	22	22	21.9	21.9	21.7
时间 Time			100	110	120	130	140	150	160	170	180	平均值 average	
航速 speed (nm/h)			21.6	21.6	21.6	21.6	21.6	21.6	21.5	21.5	21.5	21.5	21.76
顺流 downstream		时间 Time	0	10	20	30	40	50	60	70	80	90	
		航速 speed (nm/h)	22.3	22.4	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.4	22.4
		时间 Time	100	110	120	130	140	150	160	170	180	平均值 average	
		航速 speed (nm/h)	22.4	22.3	22.3	22.3	22.3	22.4	22.3	22.3	22.3	22.3	22.33
平均航速 average speed (nm/h)		22.05 浬/小时 22.05nm/h											
备注 Remark		以上数据以船上GPS测出的数据. 顺逆水共4个单程, 取平均值, 测出平均航速 <u>22.04</u> 浬/小时。 The above data were read by the GPS. Downstream and adverse current together 4 times, the average speed is <u>22.04</u> nm/h.											
质检 QC	[Signature] 2017.7.11												
船级社 LR class													
船东 Owner	[Signature] 2017.7.17												



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

航速试验记录单(二)
Speed Of Ships Test Record Sheet(二)

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY								日期: 2017.7.11 Date: July 11, 2017			
船号: HULL NO.:		HY-2186		船级社: Classification				LR		IMO No.:		9772888	
逆流 Adverse Current	次数 No.	转速 M/E speed (rpm)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
	1	航速 speed (nm/h)	11.3	12.1	13.3	14.4	15.6	17.3	18.6	19.8	20.8	21.5	21.8
	2	航速 speed (nm/h)	11.3	12	13.3	14.4	15.5	17.3	18.5	19.7	20.8	21.5	21.9
	3	航速 speed (nm/h)	11.4	11.9	13.2	14.3	15.5	17.4	18.5	19.7	20.8	21.4	21.9
	4	航速 speed (nm/h)	11.5	11.9	13.2	14.3	15.5	17.3	18.5	19.7	20.8	21.5	21.9
	5	航速 speed (nm/h)	11.4	12	13.2	14.3	15.5	17.4	18.4	19.7	20.7	21.4	21.8
	平均航速 average speed (nm/h)		11.38	11.98	13.24	14.34	15.52	17.34	18.5	19.72	20.78	21.46	21.86
顺流 Downstream	次数 No.	转速 M/E speed (rpm)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
	1	航速 speed (nm/h)	11.4	12.6	14	14.8	16.4	17	17.8	18.7	20.3	21.5	22.2
	2	航速 speed (nm/h)	11.4	12.7	14	14.9	16.4	17	17.7	18.7	20.4	21.5	22.2
	3	航速 speed (nm/h)	11.5	12.8	14	14.9	16.4	17	17.8	18.8	20.4	21.5	22.2
	4	航速 speed (nm/h)	11.5	12.8	14	15	16.5	17	17.8	18.7	20.4	21.6	22.3
	5	航速 speed (nm/h)	11.6	12.9	14	14.9	16.4	17	17.8	18.7	20.5	21.6	22.3
	平均航速 average speed (nm/h)		11.48	12.76	14	14.9	16.42	17	17.78	18.72	20.4	21.54	22.24
顺流&逆流 downstream & Adverse Current		平均航速 average speed (nm/h)	11.43	12.37	13.62	14.62	15.97	17.17	18.14	19.22	20.59	21.5	22.05
备注 Remark		<p>每种转速状态每一分钟记录一次, 共记录5次, 以上数据以船上GPS测出的数据. 顺逆水共2个单程, 取平均值, 测出平均航速海里/小时。</p> <p>Each trial should measure the vessel speed of 1 round trip. Record the data each 1 minute, total 5 times, the above data were read by the GPS. Downstream and adverse current together 2 times, the average speed is nm/h.</p>											
质检 QC													
船级社 LR class													
船东 Owner													



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

停船试验记录单
Ship Stopping Test Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888

主机运转状况 Engine status	主机转速 Engine rate of revolution				试验前船 首方向 Bow direction before test	船停时船 首方向 Boat stopping bow direction	用计程仪测定 Measured with log			惯性冲程 S=S1-S2	滑行距离 为船长倍 数	滑行时间	水流方向 water direction
	r/min		r/min				停车令 发出时 读数S1	计程仪停止时 读数 S2					
	NO. 2 port outboard	NO. 4 port inboard	NO. 3 starboard inboard	NO. 1 starboard outboard				0	5Kn				
全速正车→停车 Full Ahead→Stop	2000	2000	2000	2000	145°	175°	\	\	\	0.44nm	11	4' 45"	adverse current
全速正车→全速倒后 Full Ahead→Full Astern	2000	2000	2000	2000	337°	315°	\	\	\	0.22nm	5.5	1' 07"	adverse current

备注 Remark	试验过程中保持舵角为零位 Keep the rudder Angle is zero in the test
质检 QC	<i>Zhusheng</i> 30/11-2016
船级社 LR class	<i>[Signature]</i> 30/11/2016
船东 Owner	<i>[Signature]</i> EAC CHU 30 NOV 2016



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

停船试验记录单
Ship Stopping Test Record Sheet

停船试验记录单 Ship Stopping Test Record Sheet														
船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY										日期: 2017.7.11 Date: July 11, 2017			
船号: HULL NO.:	HY-2186				船级社: Classification			LR		IMO No.:		9772888		
主机运转状况 Engine status	主机转速 r/min Engine rate of revolution				试验前船首方向 Bow direction before test	船停时船首方向 Boat stopping bow direction	用计程仪测定 Measured with log			惯性冲程 S=S1-S2	滑行距离 为船长倍 数	滑行时间	水流方向 water direction	
	左1 Port 1	左2 Port	右1 St. 1	右1 St. 1			停车令发出时读数 S1	计程仪停止时读数 S2						
全速正车→停车 Full Ahead→Stop	2000	2000	2000	2000	118.4°	103.7°	315.95	316.52	---	0.57	7.7	4' 49"	fair current	
全速正车→全速倒后 Full Ahead→Full Astern	---	---	---	---	---	---	---	---	---	---	---	---	---	
备注 Remark	试验过程中保持舵角为零位 Keep the rudder Angle is zero in the test													
质检 QC	[Signature] 2017.7.11													
船级社 LR class														
船东 Owner	[Signature] 2017.9.4													



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

停船试验记录单
Ship Stopping Test Record Sheet

停船试验记录单 Ship Stopping Test Record Sheet														
船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY										日期: 2017.8.30 Date: Aug 30, 2017			
船号: HULL NO.:	HY-2186				船级社: Classification			LR		IMO No.:		9772888		
主机运转状况 Engine status	主机转速 r/min Engine rate of revolution				试验前船首方向 Bow direction before test	船停时船首方向 Boat stopping bow direction	用计程仪测定 Measured with log			惯性冲程 S=S1-S2 1.2	滑行距离 为船长倍 数	滑行时间	水流方向 water direction	
	左1 Port 1	左2 Port	右1 St. 1	右1 St. 1			停车令发出时读数 S1	计程仪停止时读数 S2						
全速正车→停车 Full Ahead→Stop	---	---	---	---	---	---	---	---	---	---	---	---	---	
全速正车→全速倒后 Full Ahead→Full Astern	2000	2000	2000	2000	2.8°	4.7°	561.83	562.12	---	0.29	7.3	1' 04"	adverse current	
备注 Remark	试验过程中保持舵角为零位 Keep the rudder Angle is zero in the test													
质检 QC	[Signature] 2017.8.30													
船级社 LR class	witnessed [Signature] LR 30/8-2017													
船东 Owner	[Signature] ERIC CHU 30 Aug 2017													



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

回转直径试验记录单(一)
Turning Diameter Trial Record Sheet(一)

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY						
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888		
速级 Speed	试验要求 Test request	试验工况 Test statue					
		左 转 Port			右 转 Starboard		
		1	2	3	1	2	3
100% 试验 Test	舵扇转角(度) Rudder Angle	35°	35°	35°	35°	35°	35°
	回转时主机转数(转/分) Revolution(rpm)	2000	2000	2000	2000	2000	2000
	回转时最大倾角(度) Largest Obliquity(degree)	6°	5°	\	5°	5°	\
	回转时所需时间(分) Turning Time(min)	3' 13"	3' 40"	\	3' 18"	3' 15"	\
	回转直径(公尺) Turning Diameter(m)	0.215 海里 Sea Mile	0.22 海里 Sea Mile	\ 海里 Sea Mile	0.25 海里 Sea Mile	0.22 海里 Sea Mile	\ 海里 Sea Mile
备注 Remark	回转角度为540° Turn from specified direction to 540°						
质 检 QC	<i>Zhuo Zhang 20/11-2016</i>						
船级社 LR class	<i>LR 30111/2016</i>						
船 东 Owner	<i>Eric Chan 30 Nov 2016</i>						



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

回转直径试验记录单(二)
Turning Diameter Trial Record Sheet(二)

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY						
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888		
速级 Speed	试验要求 Test request	试验工况 Test statue					
		左 转 Port			右 转 Starboard		
		1	2	3	1	2	3
100% 试验 Test	舵扇转角(度) Rudder Angle	35°	35°	35°	35°	35°	35°
	回转时主机转速(转/分) Revolution(rpm)	2000	2000	2000	2000	2000	2000
	回转时最大倾角(度) Largest Obliquity(degree)	4°	\	\	4°	\	\
	回转时所需时间(分) Turning Time(min)	3' 40"	\	\	3' 50"	\	\
	回转直径(公尺) Turning Diameter(m)	0.18海里 Sea Mile	\ 海里 Sea Mile	\ 海里 Sea Mile	0.178海里 Sea Mile	\ 海里 Sea Mile	\ 海里 Sea Mile
备注 Remark	回转角度为540° Turn from specified direction to 540° 仅用外侧两个的螺旋桨来测量转弯直径 Standard turning circle measurement with the two outer propellers only						
质 检 QC	<i>Zhuo Zhang 27/11-2016</i>						
船级社 LR class	<i>[Signature] 30/11/2016</i>						
船 东 Owner	<i>[Signature] REC CHN 30 NOV 2016</i>						



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

回转直径试验记录单(一)
Turning Diameter Trial Record Sheet(一)

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY					日期: 2017.7.11 Date: July 11, 2017	
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888		
速级 Speed	试验要求 Test request	试验工况 Test statue					
		左 转 Port			右 转 Starboard		
		1	2	3	1	2	3
100% 试验 Test	舵扇转角(度) Rudder Angle	35°	35°	35°	35°	35°	35°
	回转时主机转速(转/分) Revolution(rpm)	2000	2000	2000	2000	2000	2000
	回转时最大倾角(度) Largest Obliquity(degree)	4°	4°	\	4°	5°	\
	回转时所需时间(分) Turning Time(min)	3'45"	3'40"	\	3'45"	3'48"	\
	回转直径(公尺) Turning Diameter(m)	0.32 海里 Sea Mile	0.30 海里 Sea Mile	海里 Sea Mile	0.28 海里 Sea Mile	0.25 海里 Sea Mile	海里 Sea Mile
备注 Remark	回转角度为540° Turn from specified direction to 540°						
质 检 QC	[Signature] 2017.7.11						
船级社 LR class	[Signature] - 2017.7.11						
船 东 Owner	[Signature] 2017.09.04						



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

抛锚试验记录单
Anchor Test Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
1. 抛锚处水深 Water Depth: 26.7 m					
2. 试验记录 Test record:					
(一) 抛锚情况 Cast Anchor State: well					
(二) 制链器情况 Chain Stopper State: well					
(三) 锚与船壳吻合情况 Anchor and hull anastomosis: well					
锚链尺寸 (mm) Chain Size: 30					
锚链总长 (m) Length of Port Anchor Chain: 27.5 anchor chain + 175m steel wire rope					
抛锚长度 (m) Length of Chain Drop:					
试验内容 Item	试验情况 Test State				
	锚 Anchor				
链条节数 Chain Number	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5 NO. 6
起锚时间 (分) Hoisting Time(min)		1' 02"	1' 03"	1' 04"	
起锚速度 (米/分) Hoisting Speed(m/min)	26.19				
油泵 Oil Pump	工作压力 (Bar) Working Pressure	190			
	转速 RPM	\			
油马达转速 Oil Motor Speed	\				
电动机 Electric Motor	工作电流 (A) Working Current	40			
	电压 (V) Voltage	380			
	转速 RPM	\			
电动机控制设备热态绝缘电阻值 (MΩ) Thermal insulation resistance of Motor control equipment	300				
备注 Remark					
质检 QC	<i>Zhuohuang 30/11-2016</i>				
船级社 LR class	<i>30/11/2016</i>				
船东 Owner	<i>ERIC CHEN 30 NOV 2016</i>				



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

操舵试验记录单
Steering Test Record Sheet

船名: Hull Name:	73.6 米车客渡船 73.6m ROPAX CATAMARAN FERRY										
船号: HULL NO.:	HY-2186	船级社: Classification			LR	IMO No.:			9772888		
主机转速 (rpm) Engine speed	操舵方法 Steering	时间 (秒) Time			航速 knot			最大横倾角 Mainline angle			
2000RPM		P	S	P/S	P	S	P/S	P	S	P/S	
	0° to S35°	14"	7"	11"	21	22.1	21.4	3°	4°	4°	
	S35° to P30°	16"	16"	16"	21	21.6	21	3°	3°	3°	
	P35° to S30°	16"	17"	17"	20.6	21.7	20.8	3°	4°	3°	
	S35° to 0°	7"	7"	7"	21.4	20.4	19.7	3°	2°	2°	
	0° to P35°	9"	9"	8"	22.2	21.7	21.4	2°	3°	3°	
	P35° to 0°	8"	8"	7"	21	21.5	20.9	3°	3°	3°	
	Z向操舵	时间 (秒) Time (Sec.)			航速 knot			最大横倾角 Mainline angle			
	0° to S10°	3"	3"	3"	22.2	21.5	21.5	1°	2°	2°	
	S10° to P10°	6"	6"	7"	22.2	22.2	21.6	2°	2°	3°	
	P10° to S10°	7"	6"	4"	22.3	22.3	21.6	2°	1°	2°	
	S10° to P10°	6"	5"	5"	22.3	22.5	21.7	2°	1°	2°	
	P10° to 0°	3"	4"	4"	22.3	22.5	21.6	3°	2°	3°	
	1000RPM	应急操舵	时间 (秒) Time (Sec.)			航速 knot			最大横倾角 Mainline angle		
0° to S15°		6"			7.5			2°			
S15° to P15°		15"			7.4			3°			
P15° to S15°		14"			7.4			3°			
S15° to 0°		16"			7.5			2°			
0° to P15°		7"			7.4			1°			
P15° to 0°		7"			7.3			2°			
备注 Remarks	最大压力 maximum pressure : <u>128</u> bar										
	自动舵试验 Autopilot test : <u>acceptable</u>										
质检 QC	<i>Zhush Zhang 29/11-2016</i>										
船级社 LR class	<i>[Signature] 30/11/2016</i>										
船东 Owner	<i>[Signature] 30 Nov 2016</i>										



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

空调试验记录单
Air Conditioning Trial Parameters Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
Space Served 服务舱室	Air Terminal 出风口	Vel[m/s] 风速[m/s]	温度 Temp. (°C)	结果 Remarks	
Wheelhouse	1# Floor Standing FCU-204TM(P)	4.5	15.3	OK	
	2# Floor Standing FCU-204TM(S)	4.2	15	OK	
	1# FCU-204KM(P)	7.1	16.2	OK	
	2# FCU-204KM(S)	7.5	15.1	OK	
Captain's Cabin	FCU-204KM	7	15.1	OK	
Vip Room	FCU-204KM	7.5	15	OK	
Tourist Class-P	1# FCU-204KM(S)	7.8	16	OK	
	2# FCU-204KM(S)	7.6	16.3	OK	
	3# FCU-204KM(P)	8.2	14.5	OK	
	4# FCU-204KM(S)	8.3	15.3	OK	
	5# FCU-204KM(P)	7.6	15.5	OK	
	6# FCU-204KM(S)	7.8	16.5	OK	
	7# FCU-204KM(P)	8.4	16.8	OK	
	8# FCU-204KM(P)	8.1	16	OK	
	9# FCU-204KM(S)	8	15.5	OK	
	10# FCU-204KM(P)	7.9	15.3	OK	
	11# FCU-204KM(P)	8.1	15.5	OK	
	12# FCU-204KM(S)	8	15	OK	
Transit Class-P	1# FCU-204KM(P)	7.8	16.1	OK	
	2# FCU-204KM(S)	8	15	OK	
	3# FCU-204KM(P)	8	15.8	OK	
	4# FCU-204KM(S)	7.7	15.1	OK	
	5# FCU-204KM(P)	7.8	15.3	OK	
	6# FCU-204KM(S)	8	15.5	OK	
	1# FCU-204KM(S)	8.4	16.4	OK	

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空调试验记录单
Air Conditioning Trial Parameters Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
Space Served 服务舱室	Air Terminal 出风口	Vel [m/s] 风速 [m/s]	温度 Temp. (°C)	结果 Remarks	
Tourist Class-S	2# FCU-204KM(S)	8.5	16.5	OK	
	3# FCU-204KM(P)	7.8	16.2	OK	
	4# FCU-204KM(S)	8.1	16.2	OK	
	5# FCU-204KM(P)	8.1	16.2	OK	
	6# FCU-204KM(S)	8.4	16.1	OK	
	7# FCU-204KM(P)	8.1	16.3	OK	
	8# FCU-204KM(P)	8.5	16.1	OK	
	9# FCU-204KM(P)	8.2	16	OK	
	10# FCU-204KM(P)	8.4	15.6	OK	
	11# FCU-204KM(P)	8	15.5	OK	
	12# FCU-204KM(P)	8.2	15	OK	
	Business Class-S	1# FCU-204KM(P)	8.2	16.1	OK
2# FCU-204KM(S)		8.1	15.7	OK	
3# FCU-204KM(P)		8.4	15.4	OK	
4# FCU-204KM(S)		8.4	15.2	OK	
5# FCU-204KM(P)		7.8	15.9	OK	
6# FCU-204KM(S)		8.2	15.2	OK	
Crew	1# FCU-204KM	7.1	15.8	OK	
	2# FCU-204KM	7.5	15.4	OK	
	3# FCU-204KM	7.3	16.2	OK	
Mess	6# FCU-204KM	7.6	15.7	OK	
备注 Remarks					
质检 QC	ZHAO 2016.12.08				
船级社 LR class					
船东 Owner	Kerr 8 Dec 2016				



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

艏侧推记录单 Bow Thruster Record Sheet								
船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY							
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:9772888				
速级Speed	试验要求 test request	试验工况test statue						
船舶停航(前侧推) Ship is static(Fore bow thruster)	右机舱内主机(转/分) Inboard main engine in starboard engine room (rpm)	1600						
	测量船舶航向角 measure the ship heading angle	102°	105°	111°	118°	127°	135°	143°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
低航速(前侧推) low speed(Fore bow thruster)	右机舱内主机(转/分) Inboard main engine in starboard engine room (rpm)	1600						
	测量船舶航向角 measure the ship heading angle	214°	200°	186°	161°	135°	105°	77°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
船舶停航(后侧推) Ship is static(Aft bow thruster)	左机舱内主机(转/分) Inboard main engine in port engine room (rpm)	1600						
	测量船舶航向角 measure the ship heading angle	152°	151°	147°	142°	136°	130°	125°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
低航速(后侧推) low speed(Aft bow thruster)	左机舱内主机(转/分) Inboard main engine in port engine room (rpm)	1600						
	测量船舶航向角 measure the ship heading angle	102°	67°	38°	8°	339°	305°	277°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
船舶停航(双侧推)往左 Ship is static(Two bow thruster) towards the left	左右机舱内主机(转/分) Inboard main engine in P/S engine room (rpm)	1600/1600						
	测量船舶航向角 measure the ship heading angle	283°	273°	264°	257°	248°	237°	226°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
船舶停航(双侧推)往右 Ship is static(Two bow thruster) towards the right	左右机舱内主机(转/分) Inboard main engine in P/S engine room (rpm)	1600/1600						
	测量船舶航向角 measure the ship heading angle	118°	124°	134°	145°	158°	172°	187°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
低航速(双侧推)往左 low speed(Two bow thruster) towards the left	左右机舱内主机(转/分) Inboard main engine in P/S engine room (rpm)	1600/1600						
	测量船舶航向角 measure the ship heading angle	176°	157°	115°	73°	33°	3°	329°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
低航速(双侧推)往右 low speed(Two bow thruster) towards the right	左右机舱内主机(转/分) Inboard main engine in P/S engine room (rpm)	1600/1600						
	测量船舶航向角 measure the ship heading angle	289°	319°	350°	29°	69°	112°	150°
	所需时间(分) time(min)	0	30'	60'	90'	120'	150'	180'
备注 Remarks								
质检 QC	18/1-2017							
船东 Owner	18 JAN 2017							



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

噪音记录单
Noise Test Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY			日期: 2017.8.30 Date: Aug 30, 2017	
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.:	9772888
速度speed	测试区域 Test area	设计噪音水平(分贝) Design Sound Level (DBA)	噪音(分贝) Noise (DBA)	结果 Remarks	
85%试验 Test	驾驶室 wheelhouse		55		
	船长室 captain room		53.5		
	VIP 房间 VIP room		53.6		
	上建尾部客区(左) accommodation aft (superstruct) (P)		68.5		
	上建中部客区(左) accommodation mid (superstruct) (P)		65.9		
	上建前部客区(左) accommodation fwd (superstruct) (P)		58.6		
	上建尾部客区(右) accommodation aft (superstruct) (S)		70.2		over the limit
	上建中部客区(右) accommodation mid (superstruct) (S)		64.3		
	上建前部客区(右) accommodation fwd (superstruct) (S)		58.2		
	船员间 crew room		65.9		
	船员餐厅 crew mess		64.7		
	左机舱 engine room (P)	110	110.9		over the limit
	右机舱 engine room (S)	110	110.6		over the limit
Idle speeds 怠速	在船外离尾部主甲板25M处 outside the Vessel, approx 25m away from aft main deck		76.7		
备注 Remarks					
质检 QC	[Signature] 2017.8.30				
船级社 LR class					
船东 Owner	[Signature] 30 Aug 2017 comments as marked.				



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

噪音记录单
Noise Test Record Sheet

船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY			日期: 2017.8.30 Date: Aug 30, 2017
船号: HULL NO.:	HY-2186	船级社: Classification	LR	IMO No.: 9772888
速度 speed	测试区域 Test area	设计噪音水平(分贝) Design Sound Level (DBA)	噪音(分贝) Noise (DBA)	结果 Remarks
100% 试验 Test	驾驶室 wheelhouse		60.9	
	船长室 captain room		57.2	
	VIP 房间 VIP room		55.7	
	上建尾部客区(左) accommodation aft(superstruct) (P)		69.7	
	上建中部客区(左) accommodation mid(superstruct) (P)		68.1	
	上建前部客区(左) accommodation fwd(superstruct) (P)		56.8	
	上建尾部客区(右) accommodation aft(superstruct) (S)		72.1	over the limit
	上建中部客区(右) accommodation mid(superstruct) (S)		66.4	
	上建前部客区(右) accommodation fwd(superstruct) (S)		56.3	
	船员间 crew room		---	
	船员餐厅 crew mess		---	
	左机舱 engine room (P)	110	112.7	over the limit
	右机舱 engine room (S)	110	112.6	over the limit
Idle speeds 怠速	在船外离尾部主甲板25m处 outside the Vessel, approx 25m away from aft main deck		76.7	
备注 Remarks				
质检 QC	24/8/2017.8.30			
船级社 LR class				
船东 Owner	30 Aug 2017 comments as marked.			

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广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

振动记录单
Vibration Measurement Test Record Sheet

船名: (ull)		73.6米车渡船 73.6m ROPAX CATAMARAN FERRY										日期: 2017.8.30 Date: Aug. 30, 2017					
船号: (ULL NO.)		HY-2186				船级社: Classification				LR				IMO No.: 9772888			
测试区域 Test area	主机转速 RPM speed	驾驶室 wheel house	船长室 captain room	VIP 房间 VIP room	上建客区(左) accommodation (P)			上建客区(右) accommodation (S)			船员餐厅 crew mess	左舵机舱 steering gear room (P)	右舵机舱 steering gear room (S)	左机舱 engine room (P)	右机舱 engine room (S)	结果 Remarks	
		前部 fwd	中部 mid	尾部 aft	前部 fwd	中部 mid	尾部 aft	前部 fwd	中部 mid	尾部 aft	船位 crew room	左舵机舱 steering gear room (P)	右舵机舱 steering gear room (S)	左机舱 engine room (P)	右机舱 engine room (S)		
1000																	
1100																	
1200																	
1300																	
1400																	
1500																	
1600																	
1700																	
1800																	
1900	0.9				0.8	1.1	1.2	0.4	1.3	1.2			5.5	5.4	3	2.4	
2000	1.1				1	1.4	1.5	0.2	1.1	1.1			5.4	5.3	2.9	2.8	
备注 Remarks	振动速度: 毫米/秒 Vibration speed: mm/s																
测试 QC	FHF 2017.8.30																
船级社 LR class	CC+R 30 Aug 2017																
船东 Owner																	



广东新船重工有限公司
Guangdong Bonny Fair Heavy Industry Ltd.

振动记录单
Vibration Measurement Test Record Sheet

船名: Hull Name:		73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY												日期: 2017.7.11 Date: July 11, 2017		
船号: HULL NO.:		HY-2186												IMO No.:		
测试区域 Test area	主机转速 RPM/rev speed	船级社: Classification												左机舱 engine room (P)	右机舱 engine room (S)	结果 Remarks
		上层客区(左) accommodation (P)				上层客区(右) accommodation (S)				LR						
		前部 fwd	中部 mid	尾部 aft	前部 fwd	中部 mid	尾部 aft	前部 fwd	中部 mid	尾部 aft	船员间 crew room	船员餐厅 crew mess	IMO No.:			
1000	0.1	0.3	0.4	0.8	0.2	0.3	0.2	0.3	0.3	0.2	0.1	0.1	1.3	2.1	9772888	
1100	0.4	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.1	0.1	1.9	2		
1200	0.7	0.3	0.3	0.4	0.2	0.4	0.2	0.4	0.5	0.5	0.2	0.2	2.3	1.9		
1300	0.2	0.3	0.4	0.4	0.3	0.5	0.3	0.5	0.5	0.5	0.2	0.3	1.8	1.8		
1400	0.3	0.4	0.5	0.7	0.3	0.7	0.3	0.7	0.9	0.9	0.3	0.3	1.1	2.4		
1500	0.7	0.4	0.7	0.8	0.3	0.4	0.3	0.4	1	1	0.3	0.4	1.8	3		
1600	1	0.4	1	1.2	0.4	0.7	0.4	0.7	1.3	1.3	0.3	0.3	2.3	2.9		
1700	0.9	0.5	1.1	1.3	0.4	0.8	0.4	0.8	1.6	1.6	0.3	0.4	2.5	3.2		
1800	1.1	0.5	1.7	2.3	0.4	0.8	0.4	0.8	2	2	0.4	0.4	2.4	3.8		
1900	1.1	0.7	1.8	2.2	0.5	1	0.5	1	1.8	1.8	0.4	0.4	3	3.9		
2000	1.6	1	1	2.9	1	1.6	1	1.6	3.1	3.1	0.2	0.8	3	3.7		
备注 Remarks:																
质检 QC:	P. H. C. 2017.7.11															
船级社 LR class																
船东 Owner																



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

油耗记录单 Fuel Consumption Test Record Sheet					
船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				
船号: HULL NO.:	HY2186	船级社: Classification	LR	IMO No.:	9772888
测试区域 Test area	左机舱外侧主机 Outside Main Engine(P) l/h	左机舱内侧主机 Inside Main Engine(P) l/h	右机舱内侧主机 Inside Main Engine(S) l/h	右机舱外侧主机 Outside Main Engine(S) l/h	
主机转速 W/E speed					
500	16	17	16	16	
600	22	23	21	22	
700	27	29	27	27	
800	35	37	35	35	
900	42	49	42	46	
1000	64	73	61	64	
1100	84	97	85	91	
1200	126	133	118	121	
1300	150	158	146	145	
1400	171	202	177	175	
1500	260	265	256	257	
1600	289	297	290	286	
1700	358	355	356	352	
1800	392	405	389	398	
1900	502	512	503	495	
2000	560	555	548	552	
备注 Remarks					
质检 QC	<i>[Signature]</i> 2017.1.18				
船级社 LR class					
船东 Owner	<i>[Signature]</i> 18 Jan 2017				



广东新船重工有限公司

Guangdong Bonny Fair Heavy Industry Ltd.

排气管背压记录单 Back Pressure Test Record Sheet					
船名: Hull Name:	73.6米车客渡船 73.6m ROPAX CATAMARAN FERRY				日期: 2017.8.30 Date: Aug 30, 2017
船号: HULL NO.:	HY2186	船级社: Classification:	LR	IMO No.:	9772888
主机 Main Engine 主机转速 M/E speed	左机舱外侧主机 Outside Main Engine (P/OL)	左机舱内侧主机 Inside Main Engine (P/IN)	右机舱内侧主机 Inside Main Engine (S/IN)	右机舱外侧主机 Outside Main Engine (S/OL)	
50%/1587	-----	-----	-----	-----	
75%/1817	-----	-----	-----	-----	
85%/1895	-----	-----	-----	-----	
100%/2000	490	430	430	500	
备注 Remarks					
质检 QC	[Signature] 2017.8.30				
船级社 LR class					
船东 Owner	[Signature] 30 Aug 2017				



Lloyd's Register
Marine

ZhaoZhou Qiu
Deputy Senior Surveyor in Charge, Existing Ship Lead Surveyor
Guangzhou Office
Lloyd's Register Marine and Offshore

Lloyd's Register Classification Society (China)

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