[	版本 REV.		描 述 Description		修改 Drawn	校对 Checked	日期 Date	
	DE	TAIL DESIGN 详细设计	63600MT DWT PANAMAX BULKER WITH TRAINING PURPOSE	SC	4622(WH	H)-210-01	JS	
	CURRENT 当前,	REVISION A CURRENT STATUS S 近本 S	EQUIPMENT NUMBER CALCULATION	HULL NO.:AVIC		C398/AVI	398/AVIC399	
A	DESIGNED 设绘	つして 石光伟 DATE 日期	1	WEIGHT 重量 PAGE	kg	SCALE 比例 TOT ABEA	1:1	
	CHECKED 校对 VERIFIED 审核	陆利平 DATE 日期			DESIGN	TOT. AREA 总面积 NGHAI MERCH & RESEARCH	INSTITUTE	
亲图总号 .	APPROVED 批准 This d	「「「「「」」 日 期	ed is the exclusive property of SDARI and r	nust not be		<del>船舶研究</del> r handed o		
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EQUIPMENT NUMBER CALCULATION		SC4622(WH)-210-01JS	PAG		
	舾装数计算书			2/-	
1.	Principal partic	ular:			
1.	Fincipal partic	ulai.			
	Length	(o.a)	<i>199.90</i> m		
	Length	(p.p)	<i>194.50</i> m		
	Rules Length		<i>192.060</i> m		
	Breadth	(mld)	32.26 m		
	Depth	(mld)	<i>18.50</i> m		
	Draft	(scantling)	<i>13.30</i> m		
	Draft	(Designed)	<i>11.30</i> m		
2		equipment number:			
	According to Rules and Regulations for the Classification of ships (CSR).Equipment Number is the value obtained from the following formula.				
	EN=∆ <sup>2/3</sup> + 2hB +	+ 0.1A			
Where:	A-moulded disr	alacement of the shin in (t) (i	in sea water having a density o	f 1 025t/r	
	the summer load		in sea water having a density o	11,02501	
	∆= 62770.5t		roft)		
		(at Designed d			
	∆ <b>= 75197.1</b> t	(at Scantling d	raft)		
	h=a+ $\Sigma$ hn				
	h <sub>0</sub> :effective heig	ht, in m, from the summer lo	ad waterline to the top of the		
	uppermost ho	ouse;when calculating h <sub>0</sub> , car	mber and sheer are disregarded	d.	
	a=18.5-11.3=7.2				
	a=18.5-13.3=5.2				
	-	the centreline of the Upper d	leck to A deck.		
	h1=3.35 (m)				
	h2=2.9 (m)	A deck to B deck.			
	( )	B deck to C deck.			
	h3=2.9 (m)				
	· · ·	C deck to D deck.			
	h4=2.9 (m)				
		D deck to Bridge deck.			
	h5=2.9 (m)				
	-	Bridge deck to Compass dec	CK.		
	h6=2.80 (m)				
		2.90+2.90+2.90+2.90+2.80=24			
		2.90+2.90+2.90+2.90+2.80=22	2.95(m) (at scantling draft)		
	-	noulded breadth of the ship			
	B= 32.26 (m)				

EQUIPMENT NUMBER CALCULATION	SC4622(WH)-210-01JS	PAGE
舾装数计算书	004022(WH) 210 0100	3/4
$A = aL + \sum_{n=1}^{5} h^{"}l^{"}$		
L=rule length L=192.06(m)		
A-area in [m <sup>2</sup> ], in profile view of the hull, sup- greater than 0.25B, above the summer load and bulwarks 1.5m or more in height is to be determining h and A.	waterline within the length L .F	ixed screens
The calculation as follows:		
aL=7.2x192.06=1382.832[m <sup>2</sup> ] (at designed aL=5.2x192.06=998.712[m <sup>2</sup> ] (at scantling		
A=1382.932+338=1720.832[m <sup>2</sup> ] (at design A=998.712+338=1336.712[m <sup>2</sup> ] (at scantlin Equipment numeral:		
EN=∆ <sup>2/3</sup> + 2hB + 0.1A		
= 62770.5 <sup>2/3</sup> +2x24.95x32.26+0.1x1720.832 = 3361.3	2 (at designed	draft)
<ul> <li>= 75197.1<sup>2/3</sup>+2x22.95x32.26+0.1x1336.712</li> <li>= 3396</li> <li>3 Determination of equipment number</li> </ul>	2 (at scantling	draft)
The anchor, chain cable and mooring line an of rule , equipment number EN greater than		uirements
3.1 Anchor		
Number of stockless bower anchors: 2 Mass of each anchor 9900kg		
3 .2 Chain cable		
Electrical welded studlink chain cable Grade: Q3 Diameter: 78mm Total length: 660m		

EQUI	PMENT NUMBER CALCULATION 舾装数计算书	SC4622(WH)-210-01JS	PAG 4/4		
3.3	Mooring line				
	8 lines: Polyamide Fibre (Multifilament) Eight-strand Rope >6 lines (rule require)				
	Diameter: Φ64mm				
	Length of each line: 220m>200m (rule require	re)			
	Min. breaking strength: 706KN>554KN (rule	require)			
3.4	Towline				
	Number of towline:1				
	Length of towline:280m				
	Type of towline: Ф54 6x37S+FC 1570	GB/T8918-96			
	Min. breaking strength: 1510KN>1471KN (Rule require)				