## **CSL RELIANCE**



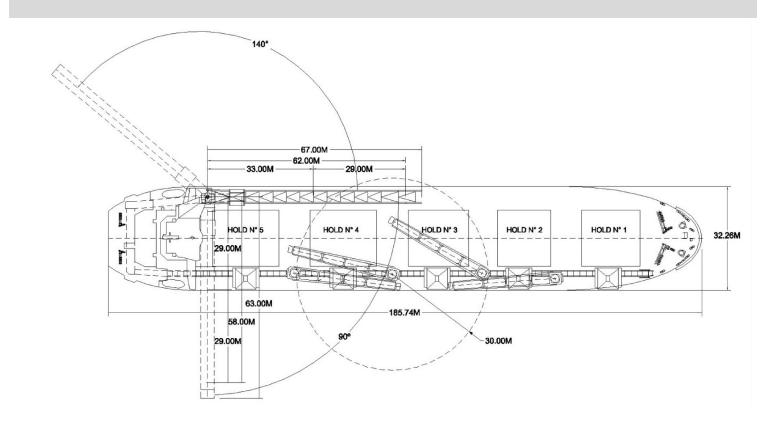


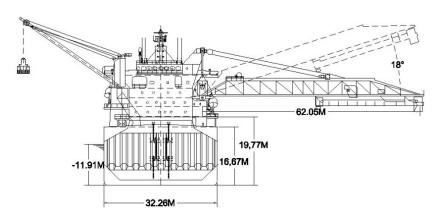
TECHNICAL SPECIFICATIONS				
Built	2002			
Classification	1A1 Bulk Carrier ES(S) Grain(U) E0 ESP HC(E) Holds (2,4) may be empty IB (+) LCS (D, G,I,S) NAUTICUS (Newbuilding)			
Length overall (m)	185.74			
Breadth Moulded (m)	32.26			
Depth Moulded (m)	16.67			
Total Hold Capacity (m <sup>3</sup> )	62,363			
Deadweight (t)	47,665			
Draft (m)	11.91			
Gross Tonnage	28,136			
Net Tonnage	17,252			
Bow Thruster (kW)	1,600			
Length of Boom	66.40			
Discharge Rate (max tph)	1,200			

The hybrid self-unloading bulk carrier *CSL Reliance* carries gypsum, mineral sands, dolomite, sugar, salt and coal.

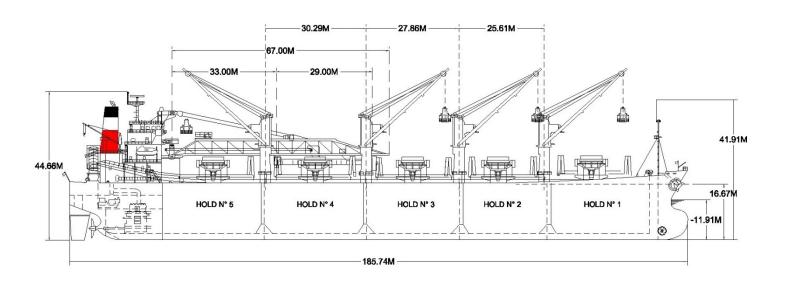
CSL Reliance is also utilized as a transhipment vessel for ship-to-ship loading and unloading operations.

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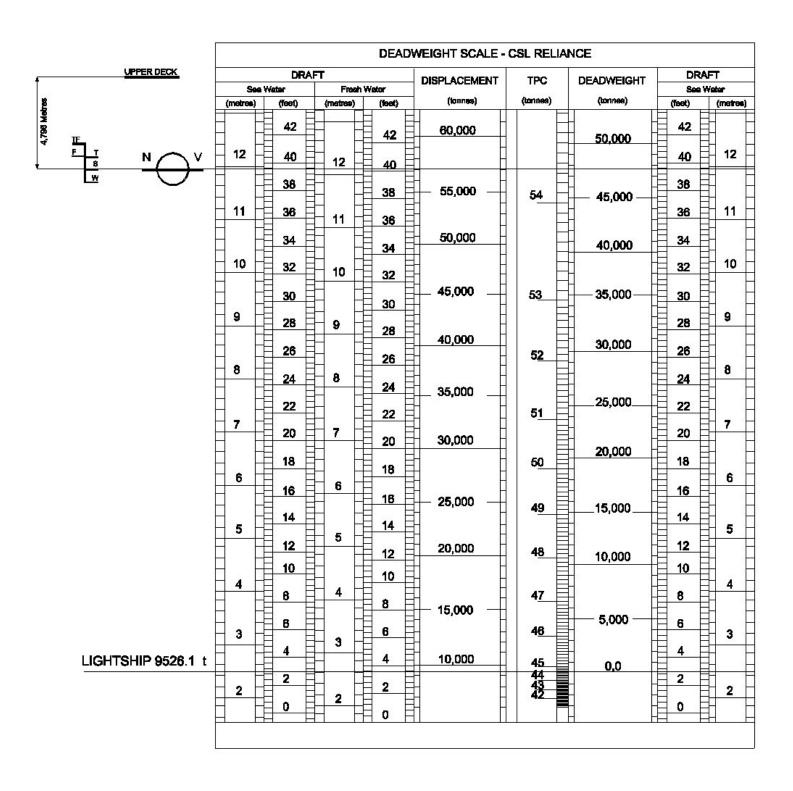


ASSIGNED DRAFTS					
Season	Draft (metres)	Displ. (tonnes)	DWT (tonnes)		
TF	12.43	58,491	48,965		
F	12.18	57,201	47,675		
Т	12.16	58,509	48,983		
S	11.91	57,191	47,665		
W	11.66	55,878	46,352		





### **HYBRID SELF-UNLOADER**



## **CSL RELIANCE**

#### **HYBRID SELF-UNLOADER**

HATCH AND HOLD SPECIFICATIONS						
HOLD VOLUMES (CUBIC METRES)						
HOLD NUMBER	1	2	3	4	5	TOTAL
Cubic (Grain)	11,554.00	11,975.00	13,030.00	13,896.00	11,908.00	62,363.00
Cubic (Bale)	11,476.00	11,780.00	13,708.00	13,708.00	11,840.00	61,636.00
HOLD OPENINGS IN METRES						
NUMBER OF OPENINGS	1	1	1	1	1	
Opening Length	17.85	16.15	18.70	20.40	20.40	
Opening Width	17.60	17.60	17.60	17.60	17.60	
Coaming Height Above Keel	20.46	19.50	19.50	19.50	19.50	
HATCH INFORMATION (METRES)						
DESCRIPTION		End Folding Panels				
Operation	Electr/Hydr					
Hatch Length	20.97	16.86	19.39	21.12	21.12	
Hatch Width	18.00	18.00	18.00	18.00	18.00	
Hatch Top Height Above Keel	18.70	18.70	18.70	18.70	18.70	

CARGO HANDLING EQUIPMENT				
5 x Yokohama Fenders for Ship-to-Ship Operations				
4 x 30t Electric Side Mounted Tsuji Cranes SWL 30 t				
4 Orts Grabs 20.0 m³ Capacity, 5 Unloading Hoppers				
5x100 m³ Deck Hoppers				
1 Longitudinal Conveyor, 1 Cross Conveyor, 1 Incline Conveyor and 1 Boom Conveyor with Discharge Rate of (max) 1,200 t/hr.				

Dust Suppression System: Water Spray System Located in each Hopper and at each Conveyor Transfer Point

All Conveyors Covered

Unloader Boom Length: 66.40 m

Unloader Boom is Reversible with 2 Discharge Points

Boom Slewing: 140 degrees to Port, 90 degrees to Starboard

Boom Luffing: Horizontal to +18 degrees

7.5 m Discharging Chute Fitted on Discharge Boom

Discharge Rate: 1,200 tph

CONSUMPTION (TONNES PER DAY)						
SPEED		MAIN ENGINE HFO		A/E		
Loaded	Ballast	Loaded	Ballast	HFO		
13.0	13.5	24.0	22.0	0.0		
		N/A	N/A	2.5		
		N/A	N/A	2.5/4.8		
	SPI	SPEED Loaded Ballast	SPEED MAIN END Loaded Ballast Loaded 13.0 13.5 24.0 N/A	SPEED MAIN ENGINE HFO Loaded Ballast Loaded Ballast 13.0 13.5 24.0 22.0 N/A N/A		

All specifications given in good faith but without guarantee.