



## TECHNICAL SPECIFICATIONS

Built	2009
Classification	Lloyd's Register
Length Overall (m)	197.10
Length Between Perps (m)	188.40
Breadth Moulded (m)	32.20
Depth Moulded (m)	17.75
Total Hold Capacity (m <sup>3</sup> ) (including hatches)	45,708.50
Deadweight (t)	47,556
Draught Summer (m)	11.517
Gross Tonnage	33,047
Net Tonnage	11,140
Bow Thruster (kW)	1,119
Length of Boom (m)	76.20
Discharge Rate: Coal, Gypsum, Aggregates (mt/hr)	2,500
Discharge Rate: Iron Ore (mt/hr)	3,000

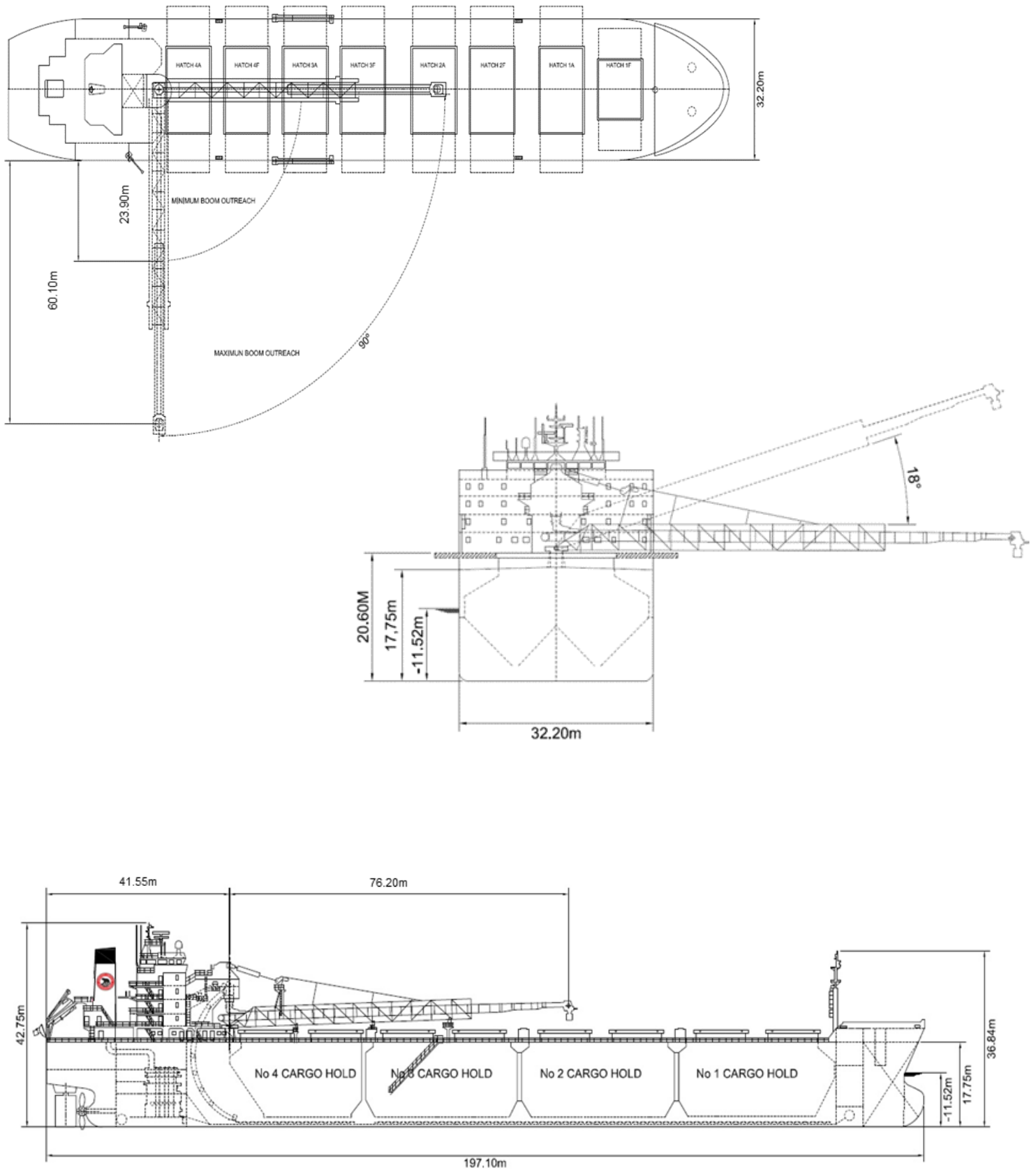
*Algoma Integrity* is a self-unloading bulk carrier with four cargo holds, strengthened for heavy cargoes, loaded through eight hatches.

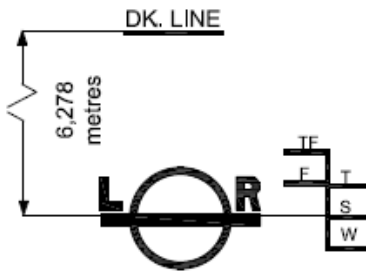
The discharge is gravity fed through the gate system via two longitudinal conveyor belts feeding to a central C-Loop that lifts the cargo onto the telescopic boom conveyor and ashore.

Discharge rate is variable to the maximum of 3,000 metric tonnes and 2500 cubic metres per hour for volumetric cargoes.

Using the flexible boom and precise control of the discharge rate makes the vessel suitable for discharge to almost any receiving facility including enclosed hoppers, barges and trucks. The vessel is double hulled, including bunker tanks, and utilizes a bow thruster and high-lift rudder to give excellent handling characteristics.

# ALGOMA INTEGRITY





DEADWEIGHT SCALE - M/V Algoma Integrity									
DRAFT				DISPLACEMENT (tonnes)	TPC (tonnes)	DEADWEIGHT (tonnes)	DRAFT		
Sea Water		Fresh Water					Sea Water		
(metres)	(feet)	(metres)	(feet)				(feet)	(metres)	
	42		42				42		
12	40		40			50,000	40	12	
	38	12	40	60,000			38		
11	36		38		59	45,000	36	11	
	34	11	36	55,000			34		
10	32		34		58	40,000	32	10	
	30	10	32	50,000			30		
9	28		30		57	35,000	28	9	
	26	9	28	45,000			26		
8	24		26		56	30,000	24	8	
	22	8	24	40,000			22		
7	20		22		55	25,000	20	7	
	18	7	20	35,000			18		
6	16		18		54	20,000	16	6	
	14	6	16	30,000			14		
5	12		14		53	15,000	12	5	
	10	5	12	25,000			10		
4	8		10		52	10,000	8	4	
	6	4	8	20,000			6		
3			6		51	5,000		3	
		3	6	15,000					
LIGHTSHIP					50	0			
12,606 tonnes				10,000					
2					49			2	
		2							

## HATCH AND HOLD SPECIFICATIONS

### HOLD VOLUMES (CUBIC METRES)

HOLD NUMBER	1	2	3	4	TOTAL
Cubic (Maximum)	11,905.70	12,382.80	12,382.80	9,037.20	45,708.50

### HOLD OPENINGS IN METRES

NUMBER OF OPENINGS	1F	1A	2F	2A	3F	3A	4F	4A
Opening Length	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20
Opening Width	13.40	19.20	19.20	19.20	19.20	19.20	19.20	19.20
Coaming Height Above Keel	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85

### HATCH INFORMATION (METRES)

DESCRIPTION	Side-Rolling Panels							
Operation	Hydraulic							
Hatch Length	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52
Hatch Width	13.78	19.58	19.58	19.58	19.58	19.58	16.15	19.58
Hatch Top Height Above Keel	20.48	18.70	18.70	18.70	18.70	18.70	18.70	18.70

## CARGO HANDLING EQUIPMENT

Two Hold Conveyors

Two Transfer Conveyors

One Boom Conveyor

One "C" Loop Conveyor

All conveyors are driven by variable speed motors, gears and couplings

Discharging is done through hydraulically operated gates fitted to outlet hoppers in the bottom of cargo holds

Boom Belt - Wide: 1,600 mm

Tunnel Belts - Wide: 2,000 mm

Transfer Belts - Wide: 2,000 mm

"C" Loop Belt - Wide: 2,750/2,600 mm

Dust Suppression: Water spray systems on the hold, transfer, C-Loop Chutes and on the Boom end

Discharge rate 2,500 m<sup>3</sup>/hr or 3000 mt/hr whichever is first reached

Maximum Boom outreach: 76.20 m (telescopic shuttle conveyor)

## CONSUMPTION (TONNES PER DAY)

	SPEED		MAIN ENGINE	AUX. GENERATORS
	Loaded	Ballast	IFO	IFO
Sea (RPM)	14.0	15.0	39.0	1.0
Port/ Anchorage				1.5
Loading				2.7
Discharge				5.0

## ASSIGNED DRAFT

Season	Draft (Tonnes)	Displ. (Tonnes)	DWT (Tonnes)
TF	-	-	-
F	11.771	60,098	47,492
T	11.757	61,582	48,977
S	11.517	60,162	47,556
W	11.277	58,762	46,138

All specifications given in good faith but without guarantee.