

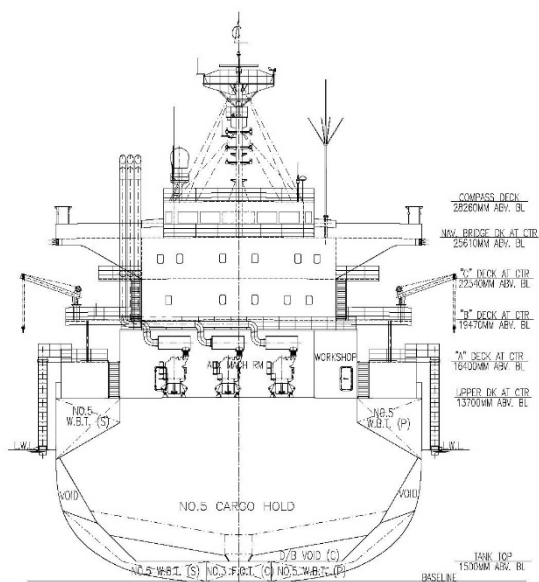
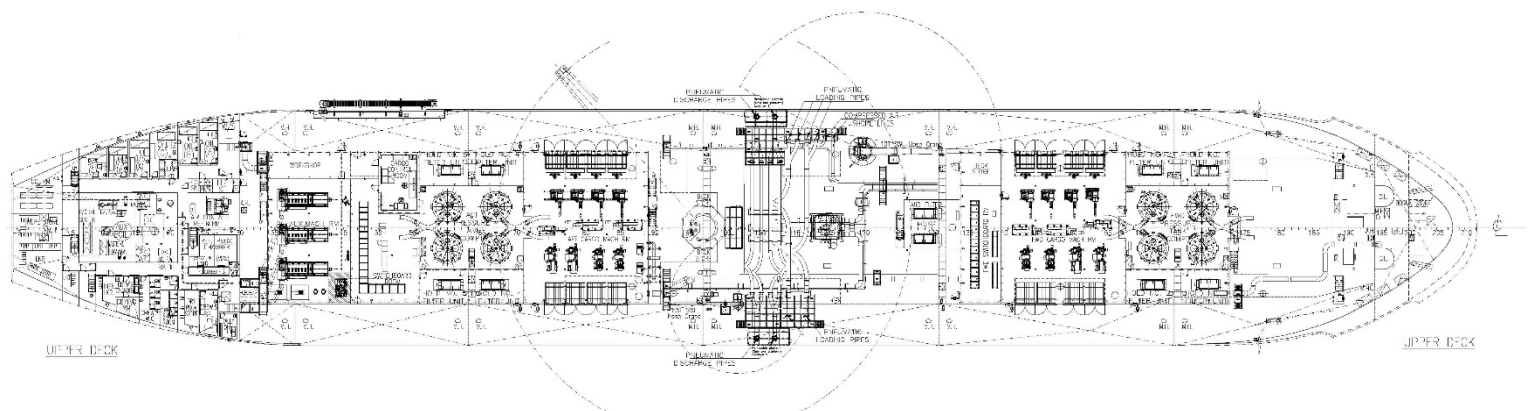


TECHNICAL SPECIFICATIONS

Built	2009 (converted to a cement carrier in 2019)
Classification	ABS ✕A1, E, ✕AMS, ✕ACCU, UWILD, RW, BWT with description 'Cement Carrier'
Length Overall	169.37 metres
Breadth Moulded	27.20 metres
Depth Moulded	14.20 metres
Total Hold Capacity	26,738 cubic metres
Deadweight	26,544 tonnes
Draft	9.82 metres
Gross Tonnage	17,784 tonnes
Net Tonnage	7,283 tonnes
Thruster	1,300 kW
Discharge Rate (maximum)	1,200 tonnes/hour

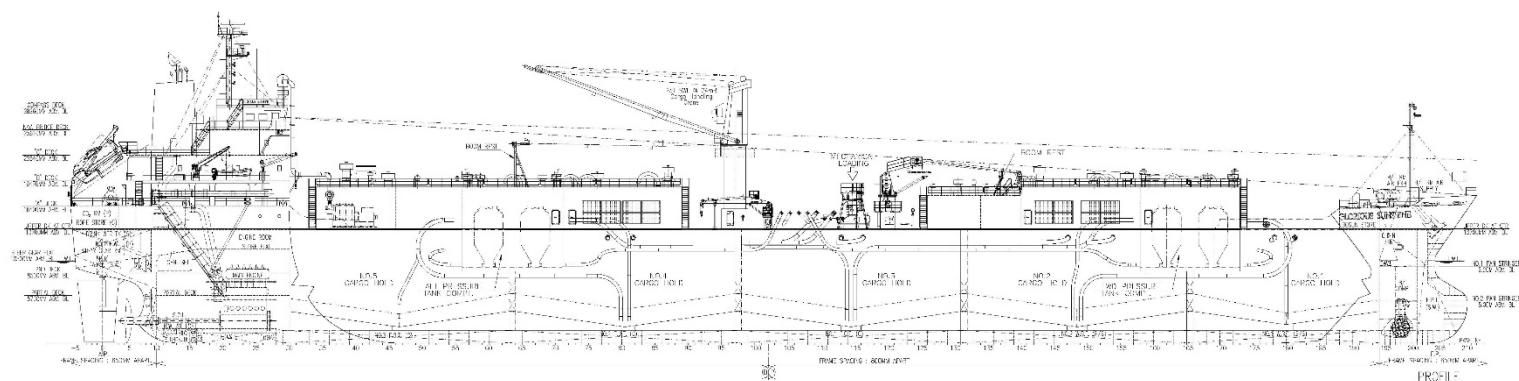
MV *Akuna* is a cement carrier designed for pneumatic and mechanical loading and unloading.

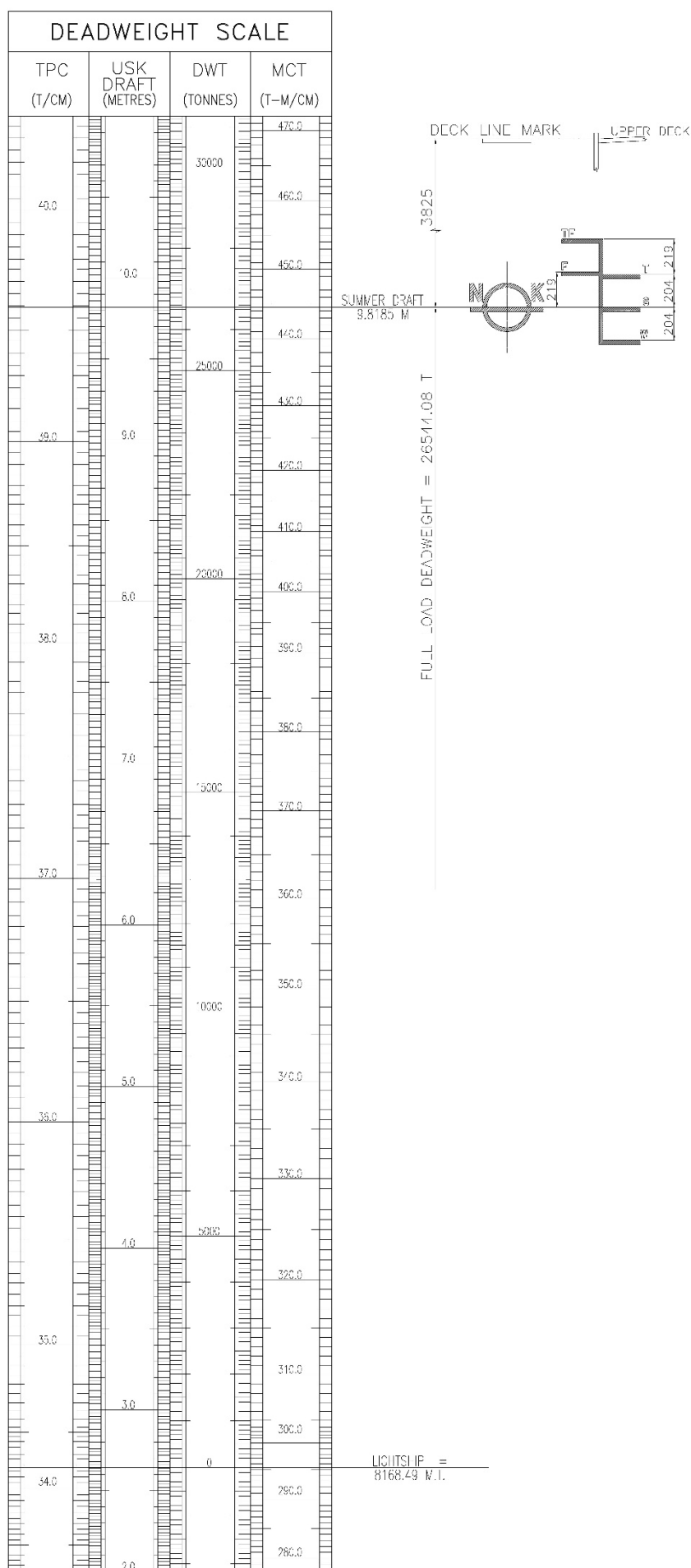
The vessel carries cement and fly ash.



SECTION IWO
AUX MACH RM
(LOOKING AFT)

ASSIGNED DRAFT			
LOAD LINE	MARK	DRAFT (M)	DEADWEIGHT (M.T.)
TROPICAL FRESH WATER	TF	10.242	27,337.28
FRESH WATER	F	10.038	26,544.93
TROPICAL	T	10.023	27,353.16
SUMMER	S	9.819	26,544.08
WINTER	W	9.615	25,737.81





HATCH AND HOLD SPECIFICATIONS

HOLD VOLUMES (CUBIC METRES)

HOLD NUMBER	1	2	3	4	5	TOTAL
Cubic Volume*	3,544.62	5,398.25	5,680.33	5,415.24	4,804.09	24,842.53
Weight (Tonnes) Maximum	4,253.54	6,477.90	6,816.40	6,498.29	5,764.91	29,811.04

* Data calculated 1.10 m below upper deck

CARGO HANDLING EQUIPMENT

MECHANICAL LOADING

Through midship hopper, rated capacity 1,000 tonnes/hour with cement at bulk density 1.20 tonnes/m³

Loading Hopper Air Draft

19.20 m to guardrail | 18.20 m to inlet flange

Consumption

2.60 metric tonnes/day idle with no cargo operation

2.20 + 8.50 mt/day unloading with two AEs, total: 10.70

PNEUMATIC LOADING POINT – PORT SIDE

Loading rate

4 x Lines 300 tonnes/hour each (1,200 tonnes/hour total)

Manifold Arrangement

4 x Lines, 400 NB DIN PN10 Flanges
(OD 565, 16 x M24 Bolts on 515 PCD)

Distance from bow to centre of loading pipes = 78 m

Distance from ship side to manifold flange = 3.40 m

Air Supply to Shore

2 x Lines, port only, 250 NB DIN PN10 Flanges
(OD 395, 12 x M20 Bolts on 350 PCD)

Distance from bow to centre of air lines = 74.90 m

Distance from ship side to manifold flange = 2.96 m

CARGO HANDLING EQUIPMENT (CON'T)

PNEUMATIC LOADING POINT – STARBOARD SIDE

Loading rate

2 x Lines 300 tonnes/hour each (600 tonnes/hour total)

Manifold Arrangement

2 x Lines, 400 NB DIN PN10 Flanges
(OD 565, 16x M24 Bolts on 515 PCD)

Distance from bow to center of loading pipes = 78.50 m

Distance from ship side to manifold flange = 5.50 m

PNEUMATIC UNLOADING

Port and Starboard Side

4 x 400 NB Lines @ 300 tonnes/hour each or

2 x 400 NB Lines @ 600 tonnes/hour each

(max, basis cement cargo and subject to shore receipt piping arrangement)

Max air delivery to shore: 30,480 m³/hour

CARGO HOLD DUST COLLECTORS

2 x 7,200 m³/hour per cargo hold

72,000 m³/hour total capacity

HOSE HANDLING CRANES

1 x 25 tonne @ 24 m on ship centreline
(outreach 10.40 m from ship side)

1 x 10 tonne @ 16 m port side
(outreach 11.45 m from ship side)

1 x 1.50 tonne @ 8 m starboard side
(outreach 3.20m from ship side)

CONSUMPTION (TONNES PER DAY)

	SPEED		MAIN ENGINE HFO		MAIN ENGINE DO		A/E
	Loaded	Ballast	Loaded	Ballast	Loaded	Ballast	HFO
Sea	13.70	14.20	22.50	22.50	0.21	0.21	1.50
Port/ Anchorage			N/A	N/A	N/A	N/A	2.60
Loading/ Discharge			N/A	N/A	N/A	N/A	2.60 / 13.00

All specifications are given in good faith but without guarantee.