

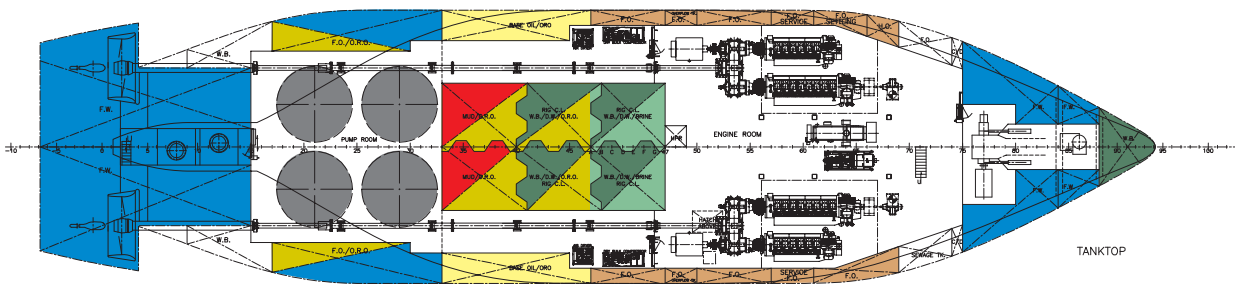
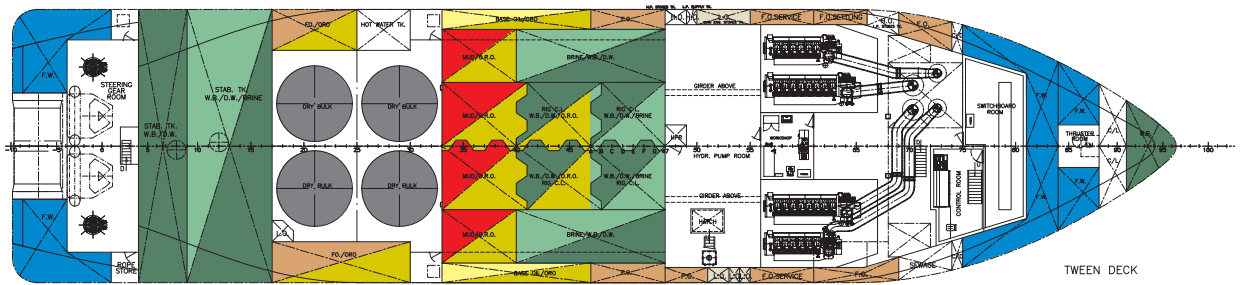
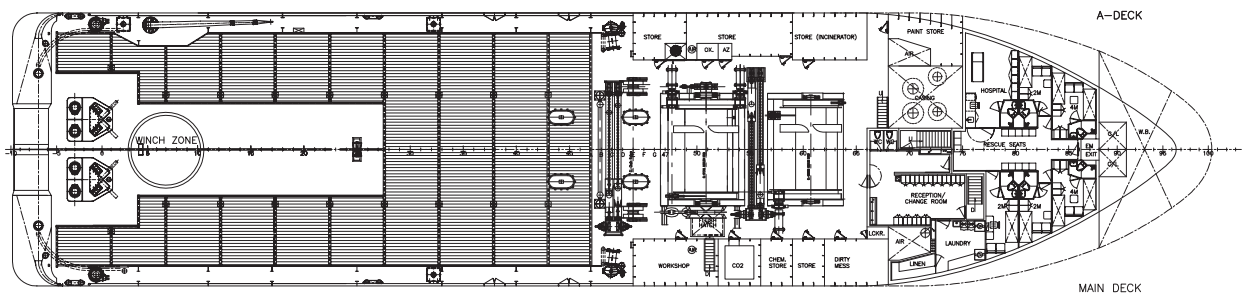
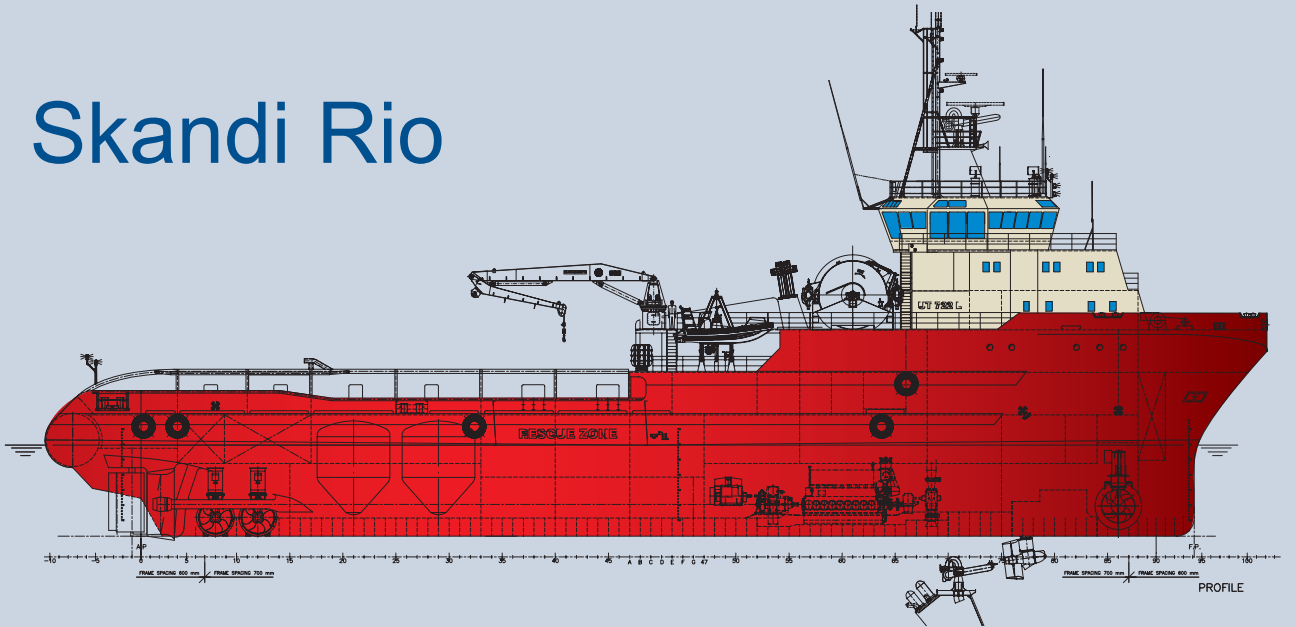


Design: KMAR 404
Built: 1998
IMO No: 9166613

Skandi Rio



Skandi Rio



Tank capacities

			Cargo							
			Cement	Mud	Fuel Oil	Fresh water	Base Oil	Brine	Drill Water	Oil Rec.
			2,400	2,500	0,900	1,000	0,830	2,500	1,000	1,000
Tank ID	Contents	Capacity (m ³)								
Wing TK 2 Stbd	FW	103,5				103,5				
Wing TK 1	FW	74,5				74,5				
Wing TK 2 Port	FW	119,1				119,1				
DB/Wing TK 1 Center	FO	78,6			70,7					
DB/Wing TK 1 Stbd	FO	77,9			70,1					
DB/Wing TK 1 Port	FO	80,7			72,6					
DB TK 3 Stbd	FO	86,8			78,1					
DB TK 3 Port	FO	86,8			78,1					
Wing TK 3 Stbd	BO/ORO	96,8					80,3			96,8
Wing TK 3 Port	BO/ORO	96,8					80,3			96,8
DB TK 4 Stbd	FO	50,2			45,1					
DB TK 4 Port	FO	50,2			45,1					
DB/Wing TK 3A Stbd	FO	81,3			73,1					
DB/Wing TK 3A Port	FO	81,3			73,1					
Wing TK 4 Stbd	FO/ORO	123,6			111,2					123,6
Wing TK 4 Port	FO/ORO	93,3			83,9					93,3
CENTER TK 4 Stbd	MUD/ORO	151,4		378,5						151,4
Stab TK 1	WB/DW/BRINE	310,4						776	310,4	
Stab TK 2	WB/DW	164,8							164,8	
Aft peak TK Stbd	FW	175				175				
Aft peak TK Port	FW	175				175				
CENTER TK 4 Port	MUD/ORO	151,1		377,7						151,1
DB/Wing TK 2 Stbd	FO	61,6			55,4					
DB/Wing TK 2 Port	FO	52,9			47,6					
CEMENT TK 1	CEM	83,6	200,6							
CEMENT TK 2	CEM	83,6	200,6							
CEMENT TK 3	CEM	83,6	200,6							
CEMENT TK 4	CEM	83,6	200,6							
CENTER TK 3 Stbd	BRI/WB/DW	142,8						357	142,8	
CENTER TK 3 Port	BRI/WB/DW	142,8						357	142,8	
RIG CHAIN LCR Stbd	BRI/WB/DW	149,7						374,2	149,7	
RIG CHAIN LCR Port	BRI/WB/DW	143,6						359	143,6	
CENTER TK 4 Stbd	MUD/ORO	71,4		178,5						71,4
CENTER TK 4 Port	MUD/ORO	71,4		178,5						71,4
RIG CHAIN LCR (2) Stbd	BRI/WB/DW	137,7						344,2	137,7	
RIG CHAIN LCR (2) Port	BRI/WB/DW	138,8						347	138,8	
TOTAL WEIGHTS			802,4	1113,2	904,1	647,1	160,6	2914,4	1330,6	855,8
TOTAL VOLUM			334,4	445,3	1005,2	647,1	193,6	1165,8	1330,6	855,8

Ship service tanks

Contents	Capacity (m ³)
Bilgewater	11,9
CD/WB	152,4
Dirty oil	0,0
Fresh Water	3,0
Fuel oil service tanks	122,2
Heavy oil	35,7
Hot water	29,3
Luboil	28,7
Sewage	26,8
Sludge	14,5
TOTAL CAPACITY (m3)	424,5
TOTAL CAPACITY (Cuft)	14991,1

All figures are based on a 100% tank volume

Densities are estimated values and actual cargo densities may alter the above carrying capacities

Technical data

Skandi Rio

GENERAL

Design	UT 722 L
Built by / Year	Aker Promar LTDA / 2006
Flag	Brazilian
Port of Registry	Rio de Janeiro
Classification	Det Norske Veritas (DNV), + 1A1, Tug, Supply Vessel, SF, E0, Oil Recovery, Fi-Fi I+II, DYNPOS AUTR, COMF-V(3), CLEAN, TMON,

MAIN PARTICULARS

LOA	80m
LPP	69,3m
Breadth Moulded	18,0m
Depth Main Deck	8,00m
Draught	6,6m
DWT	2600mt
GRT	3350 GRT
Net Tonnage	xx

DECK CAPACITIES

Deck Area	570m ²
Deck Load	10 t/m ²
Deck Cargo	800mt – 1m vcg
Cargo Rail	3m

DISCHARGE CAPACITIES

Freshwater	1 x 250m ³ /hr – 9bar
Ballast/drillwater/ORO	1 x 250m ³ /hr – 9bar
Fuel oil/ORO	1 x 250m ³ /hr – 9bar
Base oil	1 x 125m ³ /hr – 9bar
Liquid mud	2 x 75m ³ /hr – 18bar
Brine	2 x 75m ³ /hr – 18bar
Dry Bulk	2 x 30,1m ³ /hr

DECK MACHINERY

Tugger Winches	2 x 15 mt
Capstans	1 x 11 t
Deck Cranes	1 x (5mt-18m, 10mt-12m) 1 x 2mt-10m 1 x (2,1mt-10m, 3,3mt-8m)
Windlass / Mooring	2 x 15,1mt
Chain Cables	2x 2850kg 916m length, 46mm dia. Steel grade K3

Technical data

Skandi Rio

MACHINERY & PROPULSION

Main Engines	2 x 3535kW 2 x 2650kW
Aux. generator	1 x 1300kW, 440V 1 x 350kW, 440V
Shaft generator	1 x 3000kVa, 440V
Side thruster aft	2 x 736kW
Side thruster forward	1 x 883kW
Azimuth thruster	1 x 1120kW

NAVIGATION AND COMMUNICATION EQUIPMENT

PERFORMANCE

Full speed	xx knots - xx m3/day
Service speed	xx knots - xx m3/day
Economical Speed	xx knots - xx m3/day
Stand-by	xx m3/day
DP Operation by rig	xx m3/day
In port	xx m3/day

ACCOMMODATION

Total Capacity	36 Persons
Officer Cabins	4 x 1 men
Crew Cabins	2 x 1 men 6 x 2 men
Passenger Cabins	5 x 2 men 2 x 4 men
Lounge	1
Gymnasium	
Office	2
Hospital	One fully equipped

CONTINGENCY EQUIPMENT

MOB-boat	One (1) off MOB-boats of type Seabear 23 MKII or similar to be delivered and installed
Liferafts	On each side the liferafts capacity shall cover the total number of persons the vessel is certified for (34), plus 50% spare capacity

Technical data

Skandi Rio

TOWING AND ANCHOR HANDLING EQUIPMENT

Winch type	Brattvaag Waterfall
A/H winch pull	Handling 76 mm steel wire rope:
	3rd. step:
	1. layer: 400 tonnes at 0 - 17 m/min.
	Mid. layer: 286 tonnes at 0 - 24 m/min.
	Top layer: 223 tonnes at 0 - 32 m/min.
	2nd. step :
	1. layer: 244 tonnes at 0 - 28 m/min.
	Mid. layer: 175 tonnes at 0 - 39 m/min.
	Top layer: 136 tonnes at 0 - 50 m/min.
	1st. step (2x2900 + 1x3600):
	1. layer: 114 tonnes at 0 - 40 m/min.
	Mid. layer: 82 tonnes at 0 - 55 m/min.
	Top layer: 64 tonnes at 0 - 71 m/min.
A/H working winch brake	1. layer 63 - 500 tonnes at 0 - 45 m/min.
	Mid. layer: 39 - 357 tonnes at 0 - 62 m/min.
	Top layer: 28 - 278 tonnes at 0 - 80 m/min
A/H working drum dimension	2000 mm dia. x 4050 mm dia. x 3800 mm length + 1100 mm length socket compartment
A/H working drum capacity	Ø76mm-6254 m
Towing drum pull	
Towing winch brake	
Towing drum dimension	
Towing drum capacity	
Secondary winch pull	1.st layer (ø 1703 mm):138 tonnes pull at 0 - 26 m/min
	Last layer(ø 4164): 52 tonnes pull at 0 - 68 m/min.
Secondary winch brake	1.st layer (ø 1703 mm): 170 tonnes dynamic braking at max. 62 m/min
	Last layer(ø 4164): 65 tonnes dynamic braking at max.164 m/min.
Secondary winch dimension	dia. 1500 mm / dia.4500 mm x 4500 mm length + 1100 mm length special compartment.
Secondary winch capacity	1600 m of rope with fixed dia. 203 mm
Work wires	
Spare work wire	
Towline	
Spare towline	
Towing wire weak link	
Synthetic towing stretcher	
Barge wire	
Brille wire	
Emergency towing wire	
Pennants	
Storage drums capacities	
Spooling gear	Brattvaag
Rig chain gipsies	
Rig chain lockers	
Towing pins	
Shark jaws	
Shark jaws inserts	
A/H swivels	
Grapnel	
Chaser	
Smith Bracket	