Aegir 30 crane barge with 400T crawler crane

VESSEL

DATA SHEET

Vessel identification

The Aegir 30 was converted from a coal transshipment barge which supported a large pedestal mounted crane. The barge is therefore exceptionally strongly built, making it highly suited for lifting and salvage operations.

Its stability characteristics are well-matched to the capacity of the American 11320 crane which is able to perform lifts of up to 120 tonnes in or over water or 17 tonnes at 50m radius.

The 8 point mooring system provides excellent station keeping and maneuverability within its anchor spread, and allows the barge to be independent of a support vessel. The spud system is appropriate for sheltered water operations and can position the barge within 150mm of a target.

Type of vessel	Crane barge
Build date	1983
Port of registry	Kingstown
Official no.	9562
Category	VIII
Propulsion method	None

Deck equipment, generators

4 x Anchor winches (20 tons hauling)
2 x Anchor chains winches (21 tons hauling)
1 x Warping winches (8 tons hauling)
4 x Capstan winches port/starboard 280nm torque
Mercedes 240Kw 3 phase
CAT 344Kw 400/230V 3 phase
CB 4.4lts - 75Kw 380/220V 3 phase
Welding machine
Stores
Fabrication workshop
2 x 23.5m spuds

Dimensions and weight

Gross tonnage	1110 tons
Lightship displacement	894 tons
Overall length	46m
Breadth	25m
Draught	1,6
Deck strength	10 tons/m²

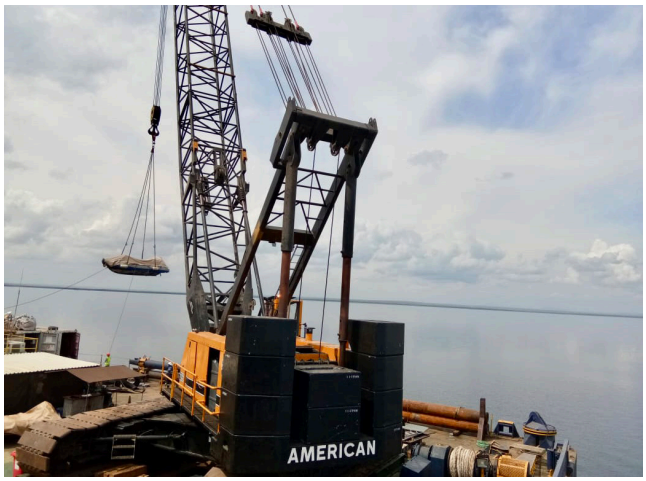
Crane specification

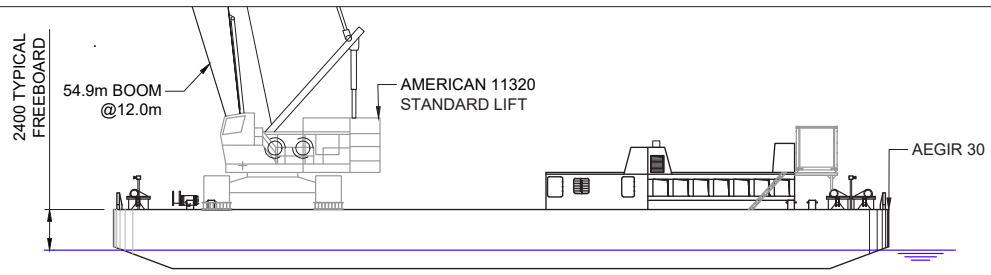
The American 11320 is a 400T duty cycle crane with free fall capability and superior lifting performance. The crane offers various boom lengths and assembly configurations which can significantly improve lifting capacity if required. The crane is typically operated in the Standard Lift configuration and is typically configured with a 54.9m boom for sheltered water work.

Type of crane	American
Make and model	1100 series, 11320
Lifiting capacity	408.2t
Boom length	21.3m to 67.1m (Standard Lift)
Power	384kW
Counter weight	104.23t
Number of winches	3
Main hoist line pull	27.15t
Main hoist single line pull	22.68t
Rope diameter	32mm
Free fall function	Yes
Rooster head SWL	16.84t

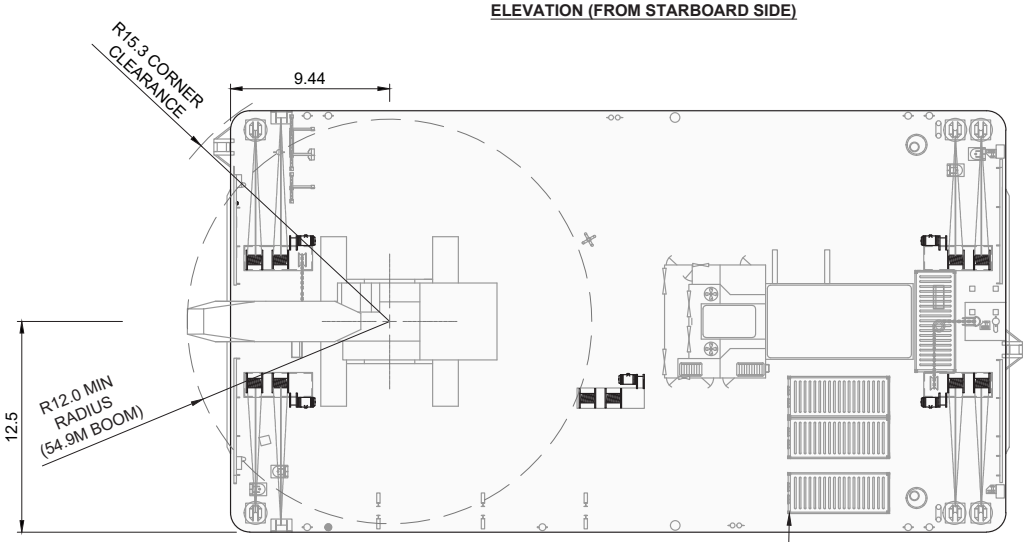
Tank capacities, accommodation and additional equipment

Fuel	2 x 120m³
Daily fuel supply tank	2200 L
Drinking water	2 x 29m³
Berths	8
Sanitary	1
Galley	1
RWO oil bilge separator (0.53m/3/hr)	
Fuel oil transfer pump (Stork SO 13 B x 2 2.2Kw motor)	
Balast pump (11Kw motor)	
Domestic fresh water pump (1.38 Kw motor)	





ELEVATION (FROM STARBOARD SIDE)



PLAN

AEGIR 30 PARTICULARS :

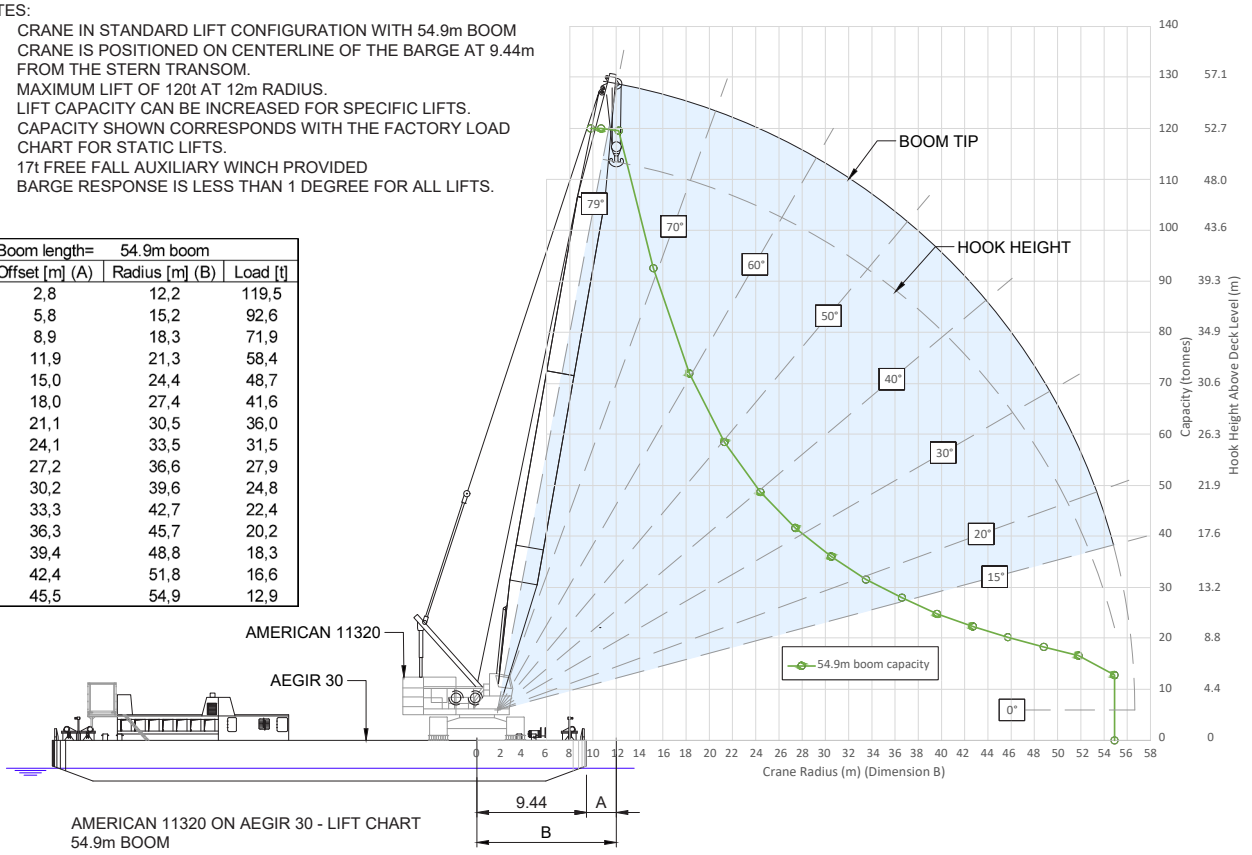
LENGTH MOULDED: 46.0m
BREADTH MOULDED: 25.0m
DEPTH MOULDED: 3.5m

AMERICAN 11320 ON AEGIR 30 - LAYOUT
54.9m BOOM @ 12m
SCALE 1:275 (A3)
Rev A

NOTES:

1. CRANE IN STANDARD LIFT CONFIGURATION WITH 54.9m BOOM
2. CRANE IS POSITIONED ON CENTERLINE OF THE BARGE AT 9.44m FROM THE STERN TRANSOM.
3. MAXIMUM LIFT OF 120t AT 12m RADIUS.
4. LIFT CAPACITY CAN BE INCREASED FOR SPECIFIC LIFTS.
5. CAPACITY SHOWN CORRESPONDS WITH THE FACTORY LOAD CHART FOR STATIC LIFTS.
6. 17t FREE FALL AUXILIARY WINCH PROVIDED
7. BARGE RESPONSE IS LESS THAN 1 DEGREE FOR ALL LIFTS.

Boom length=	54.9m boom	
Offset [m] (A)	Radius [m] (B)	Load [t]
2,8	12,2	119,5
5,8	15,2	92,6
8,9	18,3	71,9
11,9	21,3	58,4
15,0	24,4	48,7
18,0	27,4	41,6
21,1	30,5	36,0
24,1	33,5	31,5
27,2	36,6	27,9
30,2	39,6	24,8
33,3	42,7	22,4
36,3	45,7	20,2
39,4	48,8	18,3
42,4	51,8	16,6
45,5	54,9	12,9



AMERICAN 11320 ON AEGIR 30 - LIFT CHART
54.9m BOOM
SCALE 1:400 (A3)
Rev B