

Anchor Positioning Pontoon AL DANA 1



PRINCIPAL CHARACTERISTICS

General Data

| | |
|------------------------|---|
| Type: | Flat top barge with 4 X 7T anchors |
| Flag | St. Vincent |
| Port of Registry | Kingstown |
| Built by | Yizheng Xinyang shipbuilding Co. LTD. China |
| Year of construction: | 2008 |
| Yard Number | 394482 |
| Owner: | Middle East Dredging Company Q.S.C. |
| Classification Society | American Bureau of Shipping |
| Gross Tonnage (GT) | 2306 |
| Nett Tonnage (NT) | 691 |
| Class | ABS |

Dimensions and Weight

| | |
|---------------------|--------|
| Length overall(LOA) | 76.2 m |
| Breadth overall: | 24.4 m |
| Moulded depth: | 4.88 m |
| Draught max. | 3.88m |



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|-----------------------------|----------------|---|--------------|---------------|---------------|---------------------------------------|----------------|------------------|
| Weight (lightship)estimated | 1450 t | | | | | | | |
| Height above waterline | 3.7 – 3.6m | | | | | | | |
| Deck load | 15.0 T/m (max) | | | | | | | |
| Deadweight | 4965t | | | | | | | |
| Diesel Engines | | | | | | | | |
| # | HP | total | kW | total kW | rpm | type | Manufacture | Purpose |
| 2 | 134 | 268 | 99 | 198 | 1800 | ME99KWDHP | PERKINS | HPU driven |
| 1 | 126 | <u>126</u> | 93 | <u>93</u> | 1800 | N ^o 1006-T62A 56D102E-1 | ZEXEL | Generator Driven |
| | | 394 | | 291 | | | | |
| Generator | | | | | | | | |
| # | Power | total | tension V | freq. | rpm | type | Manufacture | Purpose |
| 1 | 100kVA | 100 | 440AC | 50Hz | 1800 rpm | DB-1.381K brush less | Denyo | Main gen. |
| Winches | | | | | | | | |
| # | Manufacturer | type | cable length | drum diameter | pulling force | speed | cable diameter | motor power |
| 4 | Promoter | Anchor winch PHD35TSDMW/AB/AC/ AS/SS(hydraulic) | 500m | 400mm | 35T | 10m/min | 44mm | 75kW |
| 2 | Promoter | Mooring Winch PHD35TSDMW/AB/AC/ AS/SS(hydraulic) | 250m | 400mm | 35T | 10m/min | 44mm | 75kW |
| Motor and Type | | Hydromotor , Staffa HMB 325 | | | | | | |
| Nominal Pressure | | 230 | | | | | | |
| Maximum Pressure | | 250 | | | | | | |
| Oil Flow (ltr/min) | | 175 | | | | | | |
| Spring Brake | | 105 mm compressed | | | | | | |
| Wire Drums | | 1 | | | | | | |
| Pulling Force(kN) | | 300 kN | | | | | | |
| Dia Drum(mm) | | 610 mm | | | | | | |
| Wire Length (m) | | 300 m | | | | | | |
| Wire Layers | | 7 | | | | | | |
| Clutch | | Hydraulic Activated | | | | | | |
| Brake | | Hydraulic/Nitrogen activated | | | | | | |
| Brake holding force kN | | 1000 | | | | | | |
| General | | Open Grease | | | | | | |
| Lubricant | | Roller bearings | | | | | | |
| Bearings | | steel | | | | | | |
| Foundation | | | | | | | | |
| Anchors: | | 4 units - 7t Delta Flipper | | | | | | |
| Ramps: | | 1 unit – length 12m, width 5.6m, 51T total weight, capacity | | | | | | |



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| Hydraulic Powerpack: | 160t. Operation via cable and mooring winch |
| Bunker capacity: Diesel fuel oil Potable water | 2 units – Enclosed Canopy Perkins air cooled, 99kw each 40 m ³ 20 m ³ |
| Accommodation: | |
| Galley | 1 x 20" container |
| Control Room | 1 x 20" container |
| Lavatory | 1 x 20" container (2 toilets, 1 shower) |
| Water Tank | 20.000l; 20" double skinned tank container |
| Diesel tank | 2 x 22.000l; 20" double skinned tank container |
| Spares Containers | 2 x 20" container |

