

Work Barge PDC 2



PRINCIPAL CHARACTERISTICS

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|------------------------------|-------------------------------------|
| General Data | |
| Name | PDC 2 |
| Type | Work barge |
| Flag | Qatar |
| Port of Registry | Doha |
| Year of construction | 2011 |
| Built by | ASL Shipyard, Singapore |
| Owner | Middle East Dredging Company Q.S.C. |
| Classification Society | Bureau Veritas |
| Gross Tonnage(GT) | 1242 |
| Net Tonnage(NT) | 372 |
| Dimensions and Weight | |
| Length overall | 64.00 m (210' 0") |
| Beam moulded | 18.29 m (60' 0") |
| Moulded depth | 3.66 m (12' 0") |
| Draught Max | 2.545 m |
| Deck Loading | 20 T/m ² (max) |
| Spuds | |
| Diameter | 1200 mm |
| Length | 28.6 m or 18 m |
| Weight | 2 x 27 T or 2 x 21 T |



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| Tank Capacities | | | | | | | | |
|-------------------------|--------------------------------------|---------------------|--------------|---------------|---------------|-----------|----------------|-----------------|
| Fuel Oil | 187 m ³ | | | | | | | |
| Dirty Oil | 4.2 m ³ | | | | | | | |
| Fresh Water | 234 m ³ | | | | | | | |
| Grey Water | 4.2 m ³ | | | | | | | |
| Lube Oil | 0.4 m ³ | | | | | | | |
| Diesel Engines | | | | | | | | |
| No | HP | Total HP | Kw | Total Kw | Rpm | Type | Manufacturer | Purpose |
| 1 | 612 | 612 | 450 | 450 | 1500 | D16 MG HE | Volvo | Main Engine |
| 1 | 125 | 125 | 92 | 92 | 1500 | D5A-B TA | Volvo | Aux Engine |
| 1 | 325 | 325 | 239 | 239 | 1500 | D9 MG RC | Volvo | Deck Engine |
| Generator | | | | | | | | |
| No | Power | Total | Tension V | Freq. | Rpm | Type | Manufacturer | Purpose |
| 1 | 525kVA | 420kWe | 415 AC | 50 Hz | 1500 | HCM534F-1 | Stamford | Mooring winches |
| 1 | 107kVA | 86kWe | 415 AC | 50 Hz | 1500 | UCM274E-1 | Stamford | AC mains |
| 1 | 270 kVA | 216kWe | 415 AC | 50 Hz | 1500 | HCM434E-1 | Stamford | Welding Shop |
| Winches | | | | | | | | |
| No | Manufacturer | Type | Cable Length | Drum diameter | Pulling Force | Speed | Cable diameter | Motor Power |
| 2 | ME | Hydr. Mooring winch | 350m | 635mm | 40T | 7m/min | 40mm | 90kW |
| 2 | Promotor | Spud winch | | | 35T | | | |
| Auxiliary Equipment: | | | | | | | | |
| Oily water separator | Type GRS-03EB (0.3m ³ /h) | | | | | | | |
| Sewage treatment plant | Type MST-15 (Capacity 15 persons) | | | | | | | |
| Bilge Pump | Bombas Azcuc CA 50/7A | | | | | | | |
| Fire/GS pump | Bombas Azcuc CA 50/7A | | | | | | | |
| Fuel cargo pump | Bombas Azcuc BT-LH 80T | | | | | | | |
| FW transfer pump | Bombas Azcuc CA 50/5A | | | | | | | |
| FW pressure set | Pedrollo CPm 158 | | | | | | | |
| Grey water pump | Bombas Azcuc CA 50/2A | | | | | | | |
| Dirty Oil pump | Bombas Azcuc BT-IL 52D | | | | | | | |
| Emergency fire pump | Bombas Azcuc CA 50/5A engine driven | | | | | | | |
| Fuel transfer pump | Bombas Azcuc 2YE | | | | | | | |
| HPU cooling pump | Bombas Azcuc BR36/20 | | | | | | | |
| Fuel transfer hand pump | Vane semi-rotary pump K2 | | | | | | | |
| Air compressor | Ingersoll Rand MM75 x 2 | | | | | | | |
| Horizontal air receiver | 3000 L | | | | | | | |



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| Deck Equipment | |
| Welding Machine Gouging Machine Electrode Oven Mooring winch Hydraulic Power pack | Type ARC500 x 10 Type ARC630 x 2 Floor type 2 sets ME Hydraulic driven 2 sets 2 x 45kW Electro-hydraulic power pack 1 x 99kW Electro-hydraulic power pack |
| Navigation and Communication Equipment | |
| UAIS transponder Radar transponder Loud hailer Heading sensor GPS navigator Marine VHF radio TV-FM Antenna Wind speeder Echo sounder Two-way VHF radio | FURUNO FA-150 SARACOM RT-10 FURUNO LH-3000 FURUNO PG-500 FURUNO GP-32 SAILOR DSC 6215 NAVAL Mark 20CA Young 05103-58 FURUNO FCV620/585 HUASIN SE 1500 |
| HVAC system | |
| VRV AIRCON outdoor condensing unit VRV AIRCON indoor FCU | Daikin RXQ14PY1 Daikin FXFQ100/63/50MVE |
| Accommodation | |
| Control room Office Galley/Mess Changing room/Toilet A/C compartment Workshop/Store | 1 1 1 1 1 1 |



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