





#### PUMPS

- F.O. transfer pump : 1 x horizontal gear pump of 20M<sup>3</sup>/hr @ 20M head, 415V/50Hz/3ph
- Sludge pump oil : 1 x 2M<sup>3</sup>/hr @ 29M head
- Bilge and ballast pump :  
1 x 60M<sup>3</sup>/hr @ 50M head, driven by electric motor,  
1 x 60M<sup>3</sup>/hr @ 50M head driven by electric motor
- G.S. pump : 1 x 60M<sup>3</sup>/hr @ 50M head
- Emergency pump : 1 x 35M<sup>3</sup>/hr @ 4.5 bar, electric driven
- Freshwater hydrophore plant : 1 x fresh water hydrophore plant of two pumps of 3M<sup>3</sup>/hr @ 35M head c/w 1kw motor, 2800RPM, 415/3/50Hz and one pressure tank of 300ltr with maximum working pressure and pressure relief valve
- Seawater hydrophore plant : 1 x salt water hydrophore plant of two pumps 3M<sup>3</sup>/hr @ 35M head c/w 1kw motor, 2800 RPM, 415/3/50Hz and one pressure tank of 300ltr with maximum working pressure and pressure relief valve
- Freshwater maker : 1 x reverse osmosis type of 10 tonnes/day
- Sewage holding & treatment system : for 50 persons
- Oily bilge water separator : 1 x 1.0M<sup>3</sup>/hr with oil content less than 15 ppm
- Mud pump for liquid mud : 2 x dual speed mud (liquid mud) discharge pumps of 75M<sup>3</sup>/hr @ min. 75M head pressure. Pump to be centrifugal type or equivalent with less than 1500 RPM
- F.O. cargo pump : 2 x self-priming centrifugal pump or equal of 150M<sup>3</sup>/hr @ 75M head
- Drill water pump : 1 x self-priming centrifugal pump of 150M<sup>3</sup>/hr @ 75M head
- F.W. cargo pump : 1 x self-priming centrifugal pump of 150M<sup>3</sup>/hr @ 75M head
- Cement compressor : 2 x air compressor, 415/3/50Hz of 18.0M<sup>3</sup>/min, each at 80 psi working pressure c/w air filter

#### DP SYSTEM

Meet DPS-2 class notation of ABS

- 3 x position reference systems
- 2 x wind sensors
- 3 x vertical reference systems
- 2 x gyro compass
- 1 x UPS
- 1 x control station with 2 computer systems
- special purpose cable and socket for DPS equipment

#### DECK MACHINERY

- Windlass : 1 x electro hydraulic windlass of 13 tonnes @ 12m/min for 46mm dia. chain
- Capstan : 2 x electro hydraulic capstan of 10 tonnes @ 25m/min
- Anchor : 2 x bow anchors each of 1845kg
- Towing and anchor handling winch : 1 x hydraulic driven, double drum, waterfall type c/w spooling device for the towing drum only  
Towing/anchor handling drum rated pull :  
At 1<sup>st</sup> layer Low speed : 300 tonnes @ 0-7.0 m/min  
Mid speed : 17 tonnes @ 0-12.0 m/min  
High speed : 115 tonnes @ 17.9 m/min  
Braking capacity : 400 tonnes
- Towing pin : 2 x vertical hydraulic pins, 400 tonnes
- Shark jaws : 1 x hydraulically operated anchor handling fork (hydraulic retractable shark jaws), S.W.L. 400 tonnes
- Tugger winch : 2 x electro-hydraulic tugger winch of 10 tonnes @ 32M/Min
- Deck crane : 1 x marine crane of 5.0 tonnes @ 15.0M
- Stern roller : 5.0M long x 2.2M dia, S.W.L. 500 tonnes
- Lashing/towing Gob : 40pcs of pad eyes for cargo lashing of SWL 10 tonnes

#### NAVIGATION EQUIPMENT

- 1 set S-band radar range 96NM
- 1 set X-band radar range 96NM
- 1 set eco sounder
- 1 set DGPS
- 2 sets Gyro compass
- 1 set magnetic compass
- 1 set AIS
- 2 sets Inmarsat-C with EGC
- 2 sets SART
- 1 set navtex receiver

Contents herein are believed correct but not guaranteed.