



PRINCIPAL PARTICULARS

Length overall : 45.00M
Length BP : 41.11M
Breadth moulded : 11.00M
Depth moulded : 4.00M
Draft moulded : 3.20M
Class : NK
Notation : NS* MNS* (Tug)
Gross tonnage : 496 tons
Net tonnage : 149 tons
Endurance : 30 days
Free deck space : 190M²
Bollard pull : 40 tons (approx)
Speed : 13.0 knots (approx)

TANKAGE

Fresh water : 165M³ (approx)
Fuel oil : 266M³ (approx)
SW ballast tank : 88M³ (approx)
Lub oil : 3.0M³ (approx)

MACHINERY

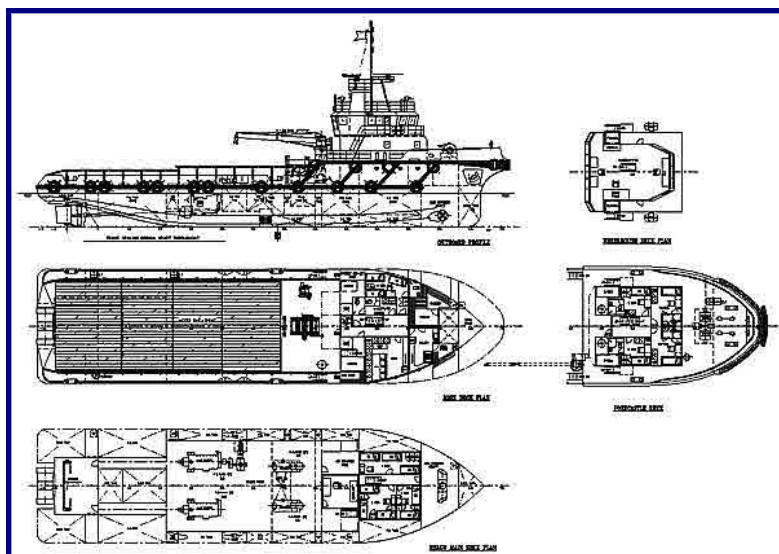
Main engine : 2 x 1600bhp @ 1800RPM
Cummins KTA50M2
Reduction gear : 2 x Reintjes WAF665L,
5.95:1
Propeller : 2 x four bladed manganese bronze
fixed pitch propeller
Bow thruster : 1 x bow thruster of 5.0 tons
driven by electric motor about 350kw
Main generator : 2 x 280kw Cummins
KTA19(D)MGC, 415V/3ph/50Hz

ACCOMMODATION

Total complement	:	28 men
Captain and chief engineer	:	2 x 1 man
Crew	:	2 x 2 men
		1 x 4 men
		3 x 6 men
Hospital	:	1 x 1 man

LIFE SAVING EQUIPMENT

2 x 25-men inflatable liferaft
28 sets lifejackets
8 sets lifebuoy



Some pictures are of sisterships.

Contents herein are believed correct but not guaranteed.



PUMPS

Bilge and ballast pump : 1 x horizontal self-priming centrifugal SW pump of 50M³/hr @ 35M total head, 415/50Hz/3ph
GS pump : 1 x horizontal self-priming centrifugal pump of 50M³/hr @ 60M total head, 415V/50Hz/3ph
Emergency fire pump : 1 x hand-start, air cooled diesel driven fire pump of 25M³/hr @ 45M head
F.O. transfer pump : 1 x gear pump of 20M³/hr @ 30M head, 415V/50Hz/3ph
F.O. cargo pump : 1 x cargo gear pump of 50M³/hr @ 50M head driven by electric motor
F.W. cargo pump : 1 x horizontal self-priming centrifugal pump of 50M³/hr @ 50M head driven by electric motor
FW pressure set : 1 x 3M³/hr @ 35 PSI driven by electric motor, 230V/1/50
SW pressure set : 1 x 3M³/hr @ 35 PSI driven by electric motor, 230V/1/50
Oily bilge water separator : 1 x 0.5M³/hr @ 2kg/cm² head with oil content less than 15 ppm
Sewage treatment plant : for 30 men
Dirty oil pump : 1 x electric driven pump of 5M³/hr @ 45M head

NAVIGATION EQUIPMENT

1 set Radar
1 set Eco sounder
1 set GPS
2 sets Magnetic compass & gyro compass
1 set Autopilot
1 set MF/HF-DSC radio telephone
1 set VHF-DSC radio telephone
1 set SART
1 set EPIRB
1 set Navtex Receiver
1 set Inmarsat C

DECK MACHINERY

Anchor : 2 x stockless bower anchor each of 780kgs
Mooring lines : 4 x 120M long mooring rope of minimum 69 KN breaking strength
Anchor windlass : 1 x electro hydraulic anchor windlass of 2.5 tons at 10M/min suitable for 24mm diameter
Tugger winch : 1 x hydraulic tugger winch of 5 tons @ 15m/min
Capstan : 1 x hydraulic vertical capstan of 5 tons @ 15m/min
Towing winch : 1 x hydraulic winch of single drum (Wire rope to be supplied by buyer)
Rated pull (1st layer) :
40 tons x 0-5m/min (low speed)
8 tons x 0-15m/min (high speed)
Drum capacity : 1000MM x 42MM dia
Brake holding : 100 tons on 1st layer
Deck crane : 1 x electro hydraulic crane of 1 tons @ 15m / 3 tons @ 5m
Stern roller : 3.5M long x 1.5M dia (SWL 150MT)

FIRE FIGHTING SYSTEM

1 x fire pump of 1200M³/hr @ 10 bar
CO2 System : Main engine room shall be protected by means of a "total flooding" fixed CO2 central bank fire extinguishing system