



DATA SHEET

AVATAR COURAGE

OVERVIEW

Avatar Courage is a multi-purpose DP1 Anchor Handling Tug Supply Vessel (AHTS).

KEY CAPABILITIES

Year built	2010
Class	ABS
Class notation	100A1 Tug. Fire fighting ship 1 (1600m ³ /h), IWS, LMC, DP1

MAIN CHARACTERISTICS

Length overall	60m	Breath Moulded	16m
Depth moulded	6m	Max draft	4.85m
Deck strength	5t/m ²	Clear deck space	390m ²
Cargo	600t		

PROPULSION MACHINERY

Main engines	2x CAT of 2722 BHP @ 1000 rpm
Marine gearbox	2x Reintjes
Propulsion	2x Berg CPP package - 4 blades
Bow thruster	8 tonnes Schottel @ 600KW electric-motor driven DP1

PERFORMANCE DATA

Horse power	2x 2722 BHP	Min bollard pull	70 BP
Max speed	12 kts	Max deck cargo	600 t
Service speed	kts	Deck strength	5 t /
Total fuel use/ service speed	600 l/h		

TANK CAPACITIES

Fuel	530 m ³	Fresh water	480 m ³
Drill water	450 m ³	Liquid mud	190 m ³
Dry bulk	100 m ³ / 4 tanks		

BULK DELIVERY CAPACITIES

Barite capacity	81.09 t	Cement capacity	53.08 t
Bentonite capacity	39.05 t	Foam	10 m ³
Detergent	10 m ³	Base oil / Brine	180 m ³
Bilge holding tank	10 m ³	Dirty bilge tank	11 m ³
Lub oil storage	7 m ³	Endurance	min 22 days

AUXILIARIES

2x CAT 275KW each
 2x shaft generator of 1000KW each
 1x CAT 90KW emergency genset

ANCHOR

Anchor windlass	8 tons @ 0 to 14m/min, 2 wrapping drums 1 towing drum and 2 chain stopper.
	Chian Cables 825m total length, 36mm diam, Grade 3 chain, 2x AC14 acnhors each 1590 kg.
	2x220m long mooring rope of min 44.000kg. Breaking strength (polypropene rope: 8" cir.)
Drum wire capacity	100m x 58mm diameter (steel wire rope).
Anchor-handling / towing winch	SL300W/BSL300W 1st layer full: 300t @ 7m/min 450t at 1st layer drum

DECK MACHINERY

2x 5t electric capstan (Zicom)
2x10t tugger winch (Zicom)
200t SWL towing pins & 1x300 t Shark Jaw of hydraulic retractable type
1x stem roller of 375t SWL, 4.2m length & 1.8m diameter
1x fixed boom marine crane of max. 5t at 8 m outreach
1x 6t storage rope reel (Zicom)
1 set electric hydraulic power pack approx. 3x5.5KW and 2x5.5KW to be provided for deck machinery.

CARGO WATER PUMP DISCHARGE

Fuel	75m ³ /h at 60m head
Potable water	75m ³ /h at 60m head
Drill water	75m ³ /h at 60m head

FLEXIBLE HOSES

Drill / Potable water	one length x 60 ft. x 4" size reinforced rubber hoses complete with camlock coupling
Diesel fuel	two length x 60 ft. x 3" reinforced rubber hoses complete with camlock couplings.

INTERNAL EQUIPMENT

Accommodation Fully air-conditioned 26 berths.

NAVIGATION/COMMUNICATION EQUIPMENT

GMDSS	Area 3
Radar	2x Furuno
EPIRB (406MHz)	1x Mc Murdo
SART	2x Mc Murdo
GyroCompass	1x Anschutz
Echo sounder	1x Furuno
Navtex receiver	1x Furuno
Autopilot	1x Anschutz
Weather fax	1x Furuno
Speed log	1x Furuno
GPS plotter	1x Furuno
VHF	1 independent VHF radiotelephone

FIRE FIGHTING & LIFE SAVING APPLIANCE

Fire pumps	2x Hamworthy driven by M/E PTO each of 1500m ³ /h @ 14 bar
Fire monitor	2x 1200m ³ /h @ 14 bar
Live saving appliances	As per SOLAS 74/78, Port of registry and classification's requirements.

OTHER EQUIPMENT

Life rafts	2x20 men & 2x25 men
Rescue boat	1x6 men rigid inflatable c/w davit & 40 HP outboard engine.
Service air compressor	1x300 litre / min @ 7 bar
DP1	Kongsburg