



2012 | 75 m | FIFI | AHTS

Vessel Specifications

VESSEL MAIN PARTICULARS

Vessel design	STX AH 08
Type	AHTS
Class definition	DNV: 1A1, Tug, Fi-fi I+II, Oilrec, SF, COMF-V(3), E0, DYNPOS-AUTR, NAUT-OSV(A), CLEAN, DESIGN, DK(+), HL(2.8), TMON
Vessel built	2012
Yard	TBD
Yard no	TBD
Port of registry	TBD
Flag state	TBD
Safe Manning	10
Next dry docking	TBD
<u>PRINCIPAL DIMENSIONS</u>	
LOA	75 m
LPP	68 m
Breadth mld	17.4 m
Depth mld to main deck	8.5 m
Min Draft	4.8m
Summer draft	7 m
Airdraft	29.4 m (min. draft)
Deadweight	3000 t
Lightship	3290 t
Gross tonnage	3181 t
Net tonnage	1129 t

PERFORMANCE

Max speed	16 knots
BHP	12000 (KW)
Bollard Pull Continuous	193 t
Bollard pull max	

PROPULSION / MAIN ENGINES

Main engines (make)	Rolls Royce B32:40V12P-2. Clean Design
Total output main engines (kW)	12 000 kW
Main propellers	2 Scana Volda Hub 105, 4 blades
Propellers diameter	Ø 4000 mm
Drive type shaft/diesel-electric	shaft
Fuel type MGO/HFO	MGO

THRUSTERS / PROPELLERS

Bow thruster	2 x 880 kW
Stern thrusters	2 x 880 kW

GENERATORS / AUX GENERATORS

Shaft generators make:	STX-NOT
Shaft generators capacity:	2 x 2400 kW
Aux generators Make:	Scania
Aux generators capacity:	2 x 370 kW
EM generator make:	John Deere
EM generator capacity:	99 kW

CARGO DECK

Deck space	520 m ²
Deck length	37.5 m
Deck breadth	14.5 m
Deck strength	10 t/m ²
Deck cargo capacity (tonnes)	1000 t @ 1 m above deck
Height of cargo rail	2,8 m

CARGO CAPACITY SUMMARY

Fuel oil	1700 m ³
Base oil	230 m ³
Fresh water	641 m ³
Drill water	1950 m ³
Liquid Mud	240 m ³
Brine	430 m ³
Dry Bulk	264 m ³
Special products	Soap Mix 2m ³
Oil recovery	max 1070 m ³
Rig chain lockers	2 x 150 m ³
Slop	84.6 m ³
Combination tank system	yes

DRILL WATER

Tank capacity	1950 m ³
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Number of tanks	9
Pump capacities	200 m ³ /h
Pump type screw/centrifugal	Centrifugal
Number of pumps	1
<u>FW</u>	
Tank capacity	641 m ³
Number of tanks	8
Pump capacity	200 m ³ /h ; 70 m ³ /h
Pump type screw/centrifugal	Centrifugal
Number of pumps	2
<u>FUEL OIL</u>	
Tank capacity	1700 m ³
Number of tanks	29
Pump capacity	200 m ³ /h
Pump type screw/centrifugal	Screw
Number of pumps	1
Flowmeter	yes
<u>LIQUID MUD</u>	
Tank capacity	240 m ³
Number of tanks	6
Pump capacity	2 x 75 m ³ /h
Pump type screw/centrifugal	Screw
Number of pumps	2
Fixed tank cleaning system	No
Tank washing pipe system	No
Agitator or circulation	yes
Possible to handle two types of mud simultaneously	yes

Max SG	2.7 t/m ³
<u>DRY BULK</u>	
Tank capacity	264 m ³
Number of tanks	4
Compressor capacity	2 x 1554 m ³ /h
Segregated system	yes
Air dryer	yes
<u>BASE OIL</u>	
Tank capacity	230 m ³
Number of tanks	2
Pump capacity	110-63 m ³ /h
Pump type screw/centrifugal	Screw
Number of pumps	1
Possible to handle two types of base oil simultaneously	no
<u>BRINE</u>	
Tank capacity	430 m ³
Number of tanks	6
Pump capacity	37-75 m ³ /h
Pump type screw/centrifugal	Screw
Number of pumps	2
Possible to handle two types of brine simultaneously	yes
<u>SLOP TANKS</u>	
Tank capacity	84,6 m ³
Number of tanks	
Pump capacity	3500 l/h

CARGO LOADING / DISCHARGING CONNECTIONS

Fuel oil	ND 150 ($\varnothing=168.3\text{mm}$) 5" Weco
Fresh water	ND 150 ($\varnothing=168.3\text{mm}$) 5" Weco
Liquid mud	ND 125 ($\varnothing=139.7\text{mm}$) 5" Weco
Brine	ND 125 ($\varnothing=139.7\text{mm}$) 5" Weco
Drill water	ND 150 ($\varnothing=168.3\text{mm}$) 5" Weco
Drybulk	ND 125 ($\varnothing=139.7\text{mm}$) 5" Weco
Base oil	ND 150 ($\varnothing=168.3\text{mm}$) 5" Weco
<u>POWER SUPPLY DECK</u>	
Air outlets	2
Air outlet capacity	6,5 bar
<u>ROLL REDUCTION SYSTEM</u>	
Roll reduction system type	Inertial stabtanks
Number of roll reduction tanks	2 (S1 207.5 m3, S2 162 m3)
<u>EVAPORATOR / OSMOSIS</u>	
Reverse osmosis type	HANSUN HSRO-10
Reverse osmosis capacity	10m2
<u>DECK CRANES</u>	
Cargo rail crane	1 x Cargo rail crane 3t - 12m
Crane TBN	1 x Straight boom 5t - 10m/3.2t - 15m
<u>ANCHOR HANDLING WINCH</u>	
Type	Waterfall Brattvaag BSL 350W
Length of drum	Max Capacity 3400 m, 76mm. 2300 m 83mm
Inner drum diameter	1050mm
Diameter of flanges	2850mm

Low gear: Drive hoist first layer	350 t @ 0-10,5 m/min
Low gear: Drive hoist top layer	144 t @ 0-25 m/min
Low gear: Lowering first layer	0-34m/min
Low gear: Lowering top layer	0-84m/min
Low gear: Dynamic braking first layer	64-480 t @ 0-51m/min
Low gear: Dynamic braking top layer	26-196 t @ 0-126 m/min
High gear: Drive hoist first layer	half pull & full speed
High gear: Drive hoist top layer	half pull & full speed
High gear: Lowering first layer	half pull & full speed
High gear: Dynamic braking first layer	half pull & full speed
High gear: Dynamic braking top layer	half pull & full speed
Brake holding first layer	450 t
<u>TOW / WORK WINCH</u>	
Type	AS AH Winch Brattvaag BSL 350 W
Length of drum	Max Capacity 3400 m, 76mm. 2300 m 83mm
Inner drum diameter	1050mm
Diameter of flanges	2850mm
Low gear: Drive hoist first layer	350 t @ 0-10,5 m/min
Low gear: Drive hoist top layer	144 t @ 0-25 m/min
Low gear: Lowering first layer	0-34m/min
Low gear: Lowering top layer	0-84m/min
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High gear: Lowering first layer	half pull & full speed
High gear: Lowering top layer	half pull & full speed
High gear: Dynamic braking first layer	half pull & full speed
High gear: Dynamic braking top layer	half pull & full speed
Brake holding first layer	450 t

SECONDARY WINCHES

Type	Brattvaag ALM 63130 max 130t
Length of drum	2 x 2300 mm + 2x750 mm (spare comp.)
Inner drum diameter	1500 mm
Diameter of flanges	4500 mm
Drive hoist first layer	130 t @ 0-18 m/min
Drive hoist top layer	53 t @ 0-45 m/min
Capacity wire	2 x800 m rope fi 203 mm

ANCHOR HANDLING EQUIPMENT

Smith bracket MBL	350 t
Shark jaws	2 x Karmoy Winch ø 500/600t SWL for chain and wire up to 165mm
Spare shark jaw inserts	1 x 95-125, 2 x 85-102, 2 x 75-90, 2 x 60-80, 1 x 50-65
Towing pins	4 x of Karmoy Winch ø 450/300 t SWL
Steering pins	2 x Karmoy Winch height above the deck 374mm / 95t SWL
Stern roller dim	1 x Rolls Royce Marine ø 3500mm/L 6000mm 550t NWL
Water monitors	Yes 1 x PS & 1 x STBD
J-hook	1 x 110t WLL
Grapnel	1 x 110t WLL
Swivel numbers of.	1 x 3-1/2"
Swivel SWL	160t SWL
85 T shackles	4
120 T shackles	2

WIRE STATUS

AH drum	1500m @ 84mm
Work drum	n/a
Tow drum	1500m @ 76mm

Sec drum Starboard	yes
Sec drum port	1200 @ 83mm Spare tow wire
Storage drum	1 x Brattvaag LALMX41009
Fibre drum	Secondary Winch
<u>GYPSYS INSTALLED</u>	
Gypsy starboard side	for chain 76mm
<u>DECK MACHINERY</u>	
Tugger wich type	2 x Brattvaag LAKM 132024
Tugger wich capacity	24 t
Tugger wich hoisting speed	24 t @ 0-22 m/min
Capstan type	2 x Brattvaag LAKMm 22012
Capstan capacity	12 t
Capstan hoisting speed	12 t @ 0-17 m/min
<u>WINDLASS</u>	
Type	1 x Brattvaag BFGX 63044 max 18t
Cable lifter hoisting speed/pull	9,8 t @ 0-13 m/min
Cable lifter Lowering speed	0-46 m/min
Anchor type	2 X Stockless Bower Anchor 3060 kg each
Chain length	44mm, NV K3 type Rolls Royce, total lenght 495 m
Mooring drum capacity/pull	Not specified / pull 60.1 t (first layer)
<u>STORAGE WINCH</u>	
Type	Brattvaag LALMX41009
Capacity	Not specified
Hoisting power	max. 8.4 t

RIG CHAIN LOCKERS

Chain lockers numbers & m ³	2 x 153,7 m3
Capacity 76 mm chain	Appr. 1500m
Capacity 84 mm chain	Not specified

NAVIGATION EQUIPMENT

X-band Radar	Sperry, 8 FT Antenna Type No.:65608/A
S band Radar	Sperry, 12FT Antenna Type No.:656112/A
Electronic chart system	2x Sperry, VisionMaster FT 23"
Autopilot	Sperry, Navipilot 4000
GPS	2 x Saab Transponder Tech R4
Echosounder	Northrop Grumman, LAZ 5100-01
Magnetic Compass	Sperry, NavPol II magnetic Jupiter, Type 4105
Gyro compass	3 x Northrop Grumman, NAVIGAT X MKI
Speed Log	Sperry, NAVIKNOT 350 E
Wind gauge	2 X Wind Observer 11, Ultrasonic Anemometers
AIS	Saab R4-J4

COMMUNICATION EQUIPMENT

MF/HF	Sailor 6310
MF/HF DSC	Built in
VHF	2 x Sailor RT5022
VHF DSC	2 x Sailor RT6222
EPIRB	2 x Sailor SGE 406-II
SART	2 x Sailor SART II
Inmarsat C	2 x Sailor 6110 1-st: 425800410, 2nd: 425800411
Portable VHF	3 x Sailor SP3520 GMDSS
Portable UHF	4 x Motorola GP339, 4 x Motorola GP388
Inmarsat FleetBroadband	Sailor Thrane&Thrane TT-3622B

DYNAMIC POSITIONING SYSTEM

Class definition	DYNPOS-AUTR (IMO DP2)
Type	KONGSBERG K-POS DP-21
DGPS no1	Kongsberg Seatex DPS 122
DGPS no2	Kongsberg Seatex DPS 232
Diff correction	Fugro Seastar 3610
Fanbeam	MDL Fanbeam Laser Mk 4,2
Transponders	2 x Fanbeam reflectors, 2 x RADIUS 700 Low Power Transponder
ERN number	99,99,99

JOYSTICK

Type	C-Joy, DP
Connections points	Aft Bridge Central manoeuvring console + STBD Bridge wing

ACCOMMODATION

Total number of bunks	27
Officers Cabins	7
Crew single Cabins	7
Crew double Cabins	10
Messroom/Rec rooms	1/2
Hospital	1
Offices	2

GALLEY

Freezer space(m ³)	15
Cooler space (m ³)	15

LIFE SAVING EQUIPMENT

MOB boat	MOB Rescue boat type VIKING 470 GRP
Liferafts	6 x VIKING 16 pers.
Lifejackets	33 x VIKING

Survival suits	31 x VIKING
Working/MOB-boat suits	4
<u>FIFI / DISPERSANT SYSTEM</u>	
Type	JASON Engineering a/s
Fire Fighting class	I + II
Throw height / length	110m /180m
Monitor count	2 x FM 400 HD-01 Type, inlet pressure 13-15 bar
Monitors capacity	Max 3600 m3/h
<u>INCINERATOR</u>	
Incinerator type	HANSUN HSINC-18

