



AOS MAINTAINER 1



Atlantic Maritime Group FZE

www.atlanticnavigation.com

GENERAL PARTICULARS

Year of Build / Place	: 2016 / China
IMO Number	: 9774654
Call Sign	: H9LD
Flag / Port of Registry	: Panama / Panama
Class	: BV
Notation	: I X Hull X Mach, Offshore Support Vessel – Self Elevating Specific Criteria Restricted Navigation – Arabian Gulf CPS (WBT) X ALM
Vessel Manager	: Atlantic Maritime Group

DIMENSIONS

Length OA	: 85.10 m
Breadth	: 40.00 m (49.50 m including Helideck Extension)
Depth	: 5.80 m
Maximum Draft (Hull)	: 3.00 m
Safe Operating Draft	: 5.00 m [Hull + Spud Can]
GRT	: 7931
NRT	: 2379
Displacement @ Max. Draft	: 7520.78 T
Lightship	: 6349.21 T

MACHINERY

Main Engine	: 2 x WEICHAH CW16V200ZC @ Idle 430 RPM 4200 BHP / 3132 kW @ 890 (Max. Safe Operating RPM)
Main Generators	: 5 x Caterpillar C18 / 650 BHP (Each) @ 1500 RPM
Alternator	: 5 x Caterpillar 450 kW / 400 V / 50 Hz
Emergency Generators	: 1 x WEICHAH 250 kW / 400 V / 50 Hz
Aft Thrusters	: 2 x WSP240 – FP / Azimuth Propulsion
Forward Thrusters	: 1 x 600 kW / CPP / CT 150 – CP Thrust 8 T

MAIN CRANE

Location	: Main Deck Port Stern
Type	: Wuhan Marine Machinery / Diesel Driven
Boom Length / Type	: 40.00 m / Lattice Boom
Main Block Capacity	: Maximum 190.0 MT
SWL (Off – Board Use)	: 123.50 MT @ Radius 9.46 m (~Boom Angle 80°) 24.71 MT @ Radius 40.00 m (~Boom Angle 22°)
SWL (On – Board Use)	: 190.00 MT @ Radius 9.46 m (~Boom Angle 80°) 38.01 MT @ Radius 40.00 m (~Boom Angle 22°)
Aux. Block Capacity	: Maximum 10.00 MT
SWL (Off – Board Use)	: 5.00 MT @ Radius 10.73 m ~ 43.72 m
SWL (On – Board Use)	: 10.00 MT @ Radius 10.73 m ~ 43.72 m
Man Riding Capacity	: 1.67 MT @ Radius 10.73 m ~ 43.72 m
Engine	: Caterpillar C18 / 492 kW @ 1500 RPM
Alternator	: Stamford UCM224F13 / 30 kW / 230 V / 1Ph / 50 Hz

AUXILIARY CRANE

Location	: Main Deck STBD Stern
Type	: Wuhan Marine Machinery / Electric Driven
Boom Length / Type	: 30.00 m / Lattice Boom
Main Block Capacity	: Maximum 20.00 MT
SWL (Off – Board Use)	: 8.00 MT @ Radius 5.70 m ~ 20.00 m (~Boom Angle 80°) 3.00 MT @ Radius 30.00 m (~Boom Angle 22°)
SWL (On – Board Use)	: 20.00 MT @ Radius 5.70 m ~ 20.00 m (~Boom Angle 80°) 10.00 MT @ Radius 30.00 m (~Boom Angle 22°)
Aux. Block Capacity	: 3.00 MT @ Radius 7.00 m ~ 33.00 m (All Conditions)
Man Riding Capacity	: 0.90 MT @ Radius 7.00 m ~ 33.00 m
Electromotor	: ABB 132kW / 200kW @ 1485 RPM / 1475 RPM Electric Source AC 400V / 50Hz / 3Ph

OPERATING CONDITIONS

Normal Operating Condition 1 – Elevated

Water Depth	: 60.00 m
Maximum Wave Height	: 6.30 m
Associate Wave Period	: 7.00 Seconds
Wind Velocity	: 25.70 Knots
Maximum Air Gap	: 8.00 m

Normal Operating Condition 2 – Elevated

Water Depth	: 32.00 m
Maximum Wave Height	: 6.30 m
Associate Wave Period	: 8.30 Seconds
Wind Velocity	: 36.00 Knots
Air Gap	: 20.00 m

Crane Working Condition – Elevated

Water Depth	: 60.00 m
Maximum Wave Height	: 6.00 m
Associate Wave Period	: 7.00 Seconds
Wind Velocity	: 15.50 Knots
Air Gap	: 8.00 m
Current at Surface	: 1.03 m/s (All above Conditions)
Current at Mud line	: 0.00 m/s (All above Conditions)

Storm Holding Condition

Water Depth	: 30.00 m
Maximum Wave Height	: 9.50 m
Associate Wave Period	: 10.20 Seconds
Wind Velocity	: 51.50 Knots
Air Gap	: 9.00 m
Current at Surface	: 1.80 m/s (Storm Holding Condition)
Current at Mud line	: 1.03 m/s (Storm Holding Condition)

DP Mode Operating Conditions

Max. Water Depth	: 60.00 m
Wind Velocity	: 10.00 m/s
Current at Surface	: 0.514 m/s
Current at Mud line	: 0.00 m/s

Afloat Conditions

Min. Depth Required (Transit / Tow)	: 6.00 m
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LEGS AND JACKING SYSTEM

Legs	: 4 Nos / Cylindrical Shaped
Leg Dimensions (Exc. Spud)	: 90.00 m (Length) / 3.30 m (Diameter)
Spud Can	: 4 Nos / Tubular Type
Spud Can Dimensions	: 11.70 m x 11.70 m x 1.50 m
Leg Jetting System	: Available in All Legs
Cathodic Protection	: Available
Operating Depth	: 60.00 m
Leg Bearing Pressure	: 18.63 T / m2
Jacking System	: WMMP Electro Hydraulic, Rack & Pinion
Normal Jacking Capacity	: 1400 T (Per Leg)
Max. Jacking Capacity	: 1960 T (Per Leg) during Preloading
Max. Normal Holding Capacity	: 1960 T (Per Leg)
Max. Storm Holding Capacity	: 2800 T (Per Leg)
Jacking Speed (Hull)	: Variable; Up to 2 Ft / minute (0.60 m / min)
Jacking Speed (Leg)	: Variable; Up to 4 Ft / minute (1.20 m / min)
Climbing Pinions	: 14 Nos (Per Leg)

85.10 m x 40.0 m / 260 Men / Self Propelled / 4 Leg Self Elevating Unit with Helideck

HELIDECK CAPACITY

Type (Helicopter)	: SIKORSKY S-92 or equivalent helicopters.
Capacity	: 12.60 T
Helideck Size (Diameter)	: 22.20 m
Safety	: Safety Net, Perimeter Lights, Flood Lights, Circle & H Light As per CAAP 437

FIRE FIGHTING & SAFETY EQUIPMENT

Fi - Fi Pump	: 2 x 630 m ³ / hr @ 100 m Head (Engine Driven – Zone II)
Fi - Fi Engine	: 2 x Weichai; 288 kW @ 1800 RPM
Fi - Fi Monitors	: 2 x External Fi - Fi Monitors with 100 m Throw each
Fire / GS Pump	: 1 x 250 / 140 m ³ / hr @ 40 / 80 m Head
Fire Fighting Pump	: 1 x 100 m ³ / hr @ 60 m Head
Water Screen Pump	: 1 x 60 m ³ / hr @ 60 m Head / Screen Protection as Below (Stern Hull / PS & SS Hull & Jacking House Fr #30 ~ #53)
Foam Pump	: 1 x 140 m ³ / hr @ 80 m Head
Foam Monitors	: 2 x 40 L / sec (For Helideck Fire Fighting)
Fixed CO2 System	: Engine Room + 2 Paint Lockers + Galley Hood
Sprinkler System	: Accommodation Areas
Rig Deluge System	: Available from Mid-ship to AFT of the Barge
Cascade System	: Available for 260 Persons (100 L / min) With multiple outlets (3 rd Level, 4 th Level and Main Deck)

LIFEBOAT AND DAVIT

Life Boat	: 4 x 130 PAX (Each) / Fully Enclosed (SOLAS Approved) Davit Capacity of 185 KN (Each)
Rescue Boat & Davit	: 1 x 12 PAX FRC (Open Type) & Single Arm Davit – 30 KN
Life Rafts	: Total – 22 Nos Free Fall – 4 x 20 PAX & 6 x 25 PAX Davit Launched – 12 x 25 PAX Life Raft Davit Capacity of 23 KN (Each)
Life Buoys / Life Jackets	: 10 Nos / 399 Nos
Fire Hydrant Stations	: 16 sets c/w Dn50 / 20m Hoses / Ø12mm Nozzles 2 sets c/w Dn50 / 15m hoses / Ø19mm Nozzles

ACCOMMODATION

1 Man Cabin	: 7 Nos
1 VIP Cabin	: 1 No
2 Man Cabin	: 20 Nos
4 Man Cabin	: 53 Nos
Total	: 260 Persons
Hospital with 2 Beds	: 1 No
Recreation Room	: 1 No
Mess Room	: 2 Nos
Office	: 7 Nos
Laundry Room	: 1 No
Gym	: 1 No

All Cabins are Fully Air Conditioned

CLIENT CAN BE ACCOMMODATED IN BELOW CONFIGURATION

1 Man Cabin	: 5 Nos
2 Man Cabin	: 9 Nos
4 Man Cabin	: 24 Nos

4 – POINT MOORING POSITIONING SYSTEM

Mooring Winches	: 4 Nos / Hydraulic
Drum Capacity (Rope)	: 38 mm (Diameter) x 800 m (Length)
Working Load	: 350 KN @ 6.50 m / min & 100 KN @ 20.00 m / min
Holding Load	: 700 KN
Hydraulic Pump Motor Power	: 2 x 75 kW

DP SYSTEM

DP System	: DPS – 1 (Kongsberg)
Reference System	: 2 x DGPS / MRU / 2 x Gyro Compass / 2 x Anemometer



CAPACITIES & PERFORMANCE

Fresh Water Tank	: 984.60 m ³
Fuel Oil Tank	: 425.00 m ³
Ballast Water Tank	: 1827.20 m ³
Bilge Pump	: 2 x 80 m ³ / hr @ 32 m Head
Ballast Pump	: 1 x 250 m ³ / hr @ 40 m Head
Sea Water Cooling Pump	: 2 x 250 m ³ / hr @ 40 m Head
Raw Water Pump (Submersible)	: 3 x 400 / 350 m ³ / hr @ 50 / 64 m Head
Jetting Pump	: 2 x 40 m ³ / hr @ 60 bar
Fresh Water Transfer Pump	: 1 x 50 m ³ / hr @ 5 bar
Fuel Oil Pump	: 2 x 8 m ³ / hr @ 3.5 bar
Deck Cargo Space	: 1500 m ² (Usable Free Space 1000 m ²)
Design Deck Load	: Variable (Max 5.0 T / m ²)
Fuel Consumption / Generator	: 3.0 m ³ / day (Elevated Condition)
Average Fuel Consumption / Day Speed	: 17.40 m ³ / day (Full Speed 21.50 m ³ / day) 4.0 Knots (Approx. in Calm Weather)
Compressed Air System	: 2 x 18.5 m ³ / hr @ 30 bar / Type – LSHC – 40A / 33
Sewage Treatment Plant	: 2 x 150 Pax / 11 m ³ / day (Each) / Type – ST 100U
Oily Water Separator	: 1 x 0.5 m ³ / hr @ 15 ppm / Type – BOSS – 2.20 T
Fresh Water Maker	: 3 x 40 T / day (Each) / Type – HSRO – 40 G
Chiller & Freezer	: Two weeks for 260 Persons
Burner Boom King Post	: Available on Port and Starboard Side

NAVIGATION & COMMUNICATION EQUIPMENT

VHF	: 2 x Sailor – 6222
VHF DSC	: 2 x Sailor
Aero VHF	: 1 x IC – A24 ICOM
Portable VHF	: 6 x Sailor – SP3520
MF / HF / DSC	: Sailor – 6310
Navtex	: 1 x Sailor – 6390
Auto Pilot	: 1 x Simrad
Magnetic Compass	: 1 x MK 2000
Gyro Compass	: 1 x Yokogawa CMZ 900; 1 x Anschutz STD – 22
AIS	: 1 x Jotron TR 8000
DGPS	: 1 x Saab R – 5
SSAS	: 1 x Marine Track Lite
GMDSS	: Area A1 + A2
Inmarsat C	: 1 x Sailor 6110
Radar	: 2 x Selux ST250
EPIRB	: 1 x SE406 – II
SART	: 6 x SART – II
Intercom/ P.A System	: Available
Satcom	: 1 x INTELLIAN Dual VSAT Mediator (High Speed)
TV Satellite	: Available

