



## MMA CRYSTAL

### AHTS



<b>PARTICULARS</b>	
Vessel Type	Anchor Handling Tug Supply
IMO Number	9594212
Port of Registry	Singapore
Year Built	2012
Classification	✕ A1, Towing Vessel , Fire Fighting Vessel Class 1, Offshore Support Vessel AH , AMS, DPS-2
<b>DETAILS</b>	
Length Overall	70.05m
Breadth	17.0m
GRT-NRT	2,763/829
Deadweight	2,515t
Depth Moulded	7.50m
Maximum draft	6.10m
Clear deck Space	500m <sup>2</sup> (600 tons total)
Deck loading	7.5 T / m <sup>2</sup>
Max Speed	14.0kts
Economical speed	10.0kts
Bollard Pull tonnes	104.2t
Sewage Plant	1 x 50 men , Evac Vacuum
Rudders	2 x Becker Flap Type S A
Joystick	Bridge Mate
Flow Meter	YES
<b>CAPACITY</b>	
Fuel Oil	698.7m <sup>3</sup>
Potable Water	514.1m <sup>3</sup>
Drill Water	Total capacity all D/W tank = 1239T if filled with fresh water and 1369T if filled with sea water. Currently Tank No. 2, 4 and 5 filled with fresh water only for the rig with capacity 593.6T.
Oil Based Mud	Currently 2 tanks used for OBM with 100% capacity =

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	140m <sup>3</sup> / 1762 bbls
Dispersant	15.7m <sup>3</sup>
Dry Bulk	50m <sup>3</sup> in four tanks
Foam	15.7m <sup>3</sup>
<b>PUMPING RATES</b>	
Fuel Oil	1 x 117m <sup>3</sup> /hr @ 80m head
Potable Water	N/A
Drill Water	1 x 120m <sup>3</sup> /hr @ 90m head
Oil Based Mud	2 x 75 m <sup>3</sup> /h @ 95m head
Dry Bulk	2 x 20m <sup>3</sup> /hr
<b>MACHINERY</b>	
Main Engines	2 x MaK 9 M 25 2,970kW
Generators	2 x Volvo Penta D12 MG 350kW
Emergency Generators	1 x 99 ekW @ 1800 RPM, Volvo penta radiator cooled, 440V/3Ph/60Hz
Bow Thruster	2 x 600kW Tunnel Type
Propulsion	2 x CPP
<b>ACCOMMODATION</b>	
Berths	1x10, 2x20
Total	50
<b>FIRE FIGHTING</b>	
Class	1
Monitors	2 x 1,200m <sup>3</sup> /hr
Pumps	2 x 1,711m <sup>3</sup> /hr
<b>DECK EQUIPMENT</b>	
<b>Towing Winch</b>	
Type	Rolls Royce Electro-hydraulic
Pull	Bollard Pull 104.2 MT
Brake Holding	250t
Wire Capacity	58mm x 1,400m
<b>Anchor Handling Winch</b>	
Type	Rolls Royce Electro-hydraulic
Pull	65MT stalling (high speed) and 210MT stalling (slow speed)
Brake Holding	250t
Wire Capacity	76mm x 800m
<b>Tugger Winch</b>	
Number & Capacity	2 x 12t Hydraulic
Wire Capacity	24mm x 220m
<b>Other Deck Equipment</b>	
Storage Drum	1 x electro-hydraulic, Brattvaag, fixed ø800/2 x L1700mm, for ø58mm x L1500m rope
Towing Pins	2 x 300t Karmoy

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Shark Jaws	1 x 300t Karmfork
Stern Roller	1 x 250t 2.2m x 4.8m
Crane	1 x 2t @ 12m / 5.9t @ 2.2m Palfinger Hyd Deck Crane PTM 400
Deck Voltage & Sockets	2 x 415V, 2 x 220V
Water Maker	2 x 5m <sup>3</sup> /day reverse osmosis
<b>LIFESAVING</b>	
Liferafts	6 x 25 man
Lifejackets	63
FRC/Rescue Boat/Davit	1 x NEUVISA PR-40
Lifebuoys	8
Immersion Suits	56