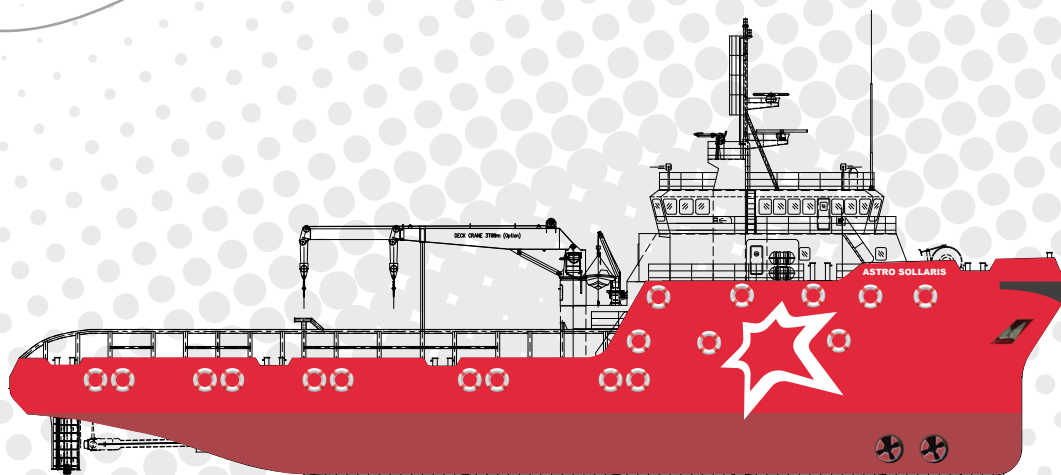




ASTRO SOLARIS

ANCHOR HANDLING TUG SUPPLY VESSEL – DP 1

A 58M modern AHT capable of 71.50 T Bollard Pull and space for 42 berths. Suitable for towing, supply, anchor handling and general offshore support duties.

GENERAL PARTICULARS

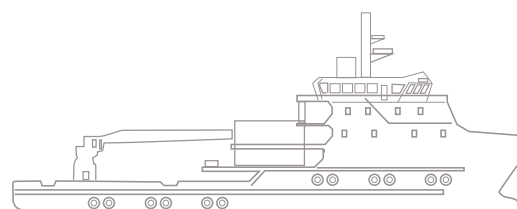
Length Overall	:	58.70 m
Length Waterline	:	56.31 m
Breadth Moulded	:	14.60 m
Depth Moulded	:	5.50 m
Draft (designed)	:	4.75 m
Year Built	:	2014
GRT/NRT	:	1561 / 468
Class	:	ABS
Flag	:	singapore
Call Sign	:	9V8932

CARGO CAPACITIES

Deadweight	:	@ S.L.L. 1271.367
Deck Cargo	:	500 T
Deck Strength	:	7 T/m ²
Clear Deck Area	:	350 m ²
Fuel Oil	:	468.5 m ³
Fresh Water	:	212.2 m ³
Drill Water / SWB	:	417.2 m ³
Mud Tank	:	259.2 m ³
Cement Tanks	:	4 x 46.72 m ³
Freezer	:	9 m ³
Cooler	:	6 m ³
Foam	:	13.5 m ³
Dispersant	:	13 m ³
Lube Oil	:	6 m ³

PROPULSION SYSTEM

Main Engines	:	2 x Caterpillar 35i6C - HD 1920 kW @ 1600 rpm
Reduction Gears	:	2 x Reintjes LAF 873 ratio 7:455:1
Shaft Generator	:	2 x 1192 PTO driven 415 V/ 3 ph/ 50Hz/ 1000kW
Main Generator	:	2 x Catterpillar C18 350 kW diesel driven
Bow Thruster	:	2 x Kawasaki 8T CPP Type
Propellers	:	2 x controllable pitch propeller
Rudders	:	2 x double plate flat type
Steering Gear	:	2 x independent electro-hydraulic



PERFORMANCE

Maximum Speed	:	13.5 knots
Economical Speed	:	12 knots

DECK EQUIPMENT

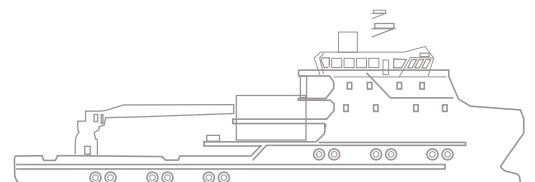
Windlass	:	9T @ 12m/min for 40 mm dia.
Anchors	:	2 x 1305 kg
Chains	:	2 x 400 m x 40 mm dia.
Capstan	:	2 x 5T @ 15 m/min
TuggerWinch	:	2 x 10T @ 15 m/min
Rope Reel	:	1 x 5T @ 15 m/min
		Cap : 1000 m (L) x 56 mm dia.
Deck Crane	:	1 x Pedestal Mounted
		SW L: 3T@2.5m-9m

TOWING / ANCHOR HANDLING

Bollard Pull	:	71.5t-Bollard pull	
Winch	:	1 x 150 T Line Pull	
Stern Roller	:	200 T; 5.0 m x 1.6 m dia.	
Shark Jaw &	:	2 x 5T @ 15 m/min	
Towing Pins	:	hydraulic operated type;	SWL:200T Rescue Boat

RADIO AND NAVIGATION

GMDSS	:	Area A1+A2+A3
SSB	:	1 x Furuno FS-1570
VHF	:	2 x Furuno FM8800S
MF/HF DSC	:	1 x Furuno FS-1570
Inmarsat C	:	1 x Furuno Felcom-18
Radar	:	2 x Furuno FR-2115
AIS	:	1 x Furuno FA-150
Echo Sounder	:	1 x Furuno FE-700
Auto Pilot	:	1 x Simrad AP70
Gyro Compass	:	2 x Simrad GC80
SART	:	2 x Mc Murdo S4
VHF radios	:	3 x Mc Murdo R2 (portable)
EPIRB	:	1 x Mc Murdo E5
Magnetic Compass	:	1 x Saura MR-150
Speed Log	:	1 x Furuno DS-80
Navtex Receiver	:	1 x Furuno NX-700A/B
GPS Navigator	:	1 x Furuno GP-50
Weather Fax	:	1 x Furuno FAX-408
Satellite Telephone	:	Thrane & Thrane TT 3672A Mooring System
		8 X 160M Polypro R



LIFE SAVING & HSE

Search Lights	:	3 x 2000 W
Floodlights	:	7 x 1000 W
Liferafts	:	4 x 20 men & 2x 25 men
Lifejackets	:	53 sets
Lifebuoys	:	8 sets
Scrambling Nets	:	1 x 4.6 m x 1.1 m
Rescue Boats	:	1 x 6 menWater Making Plant

DISCHARGE RATES

Fuel Oil	:	150 m3/hr @ 75 m head
Portable Water	:	100 m3/hr @ 75 m head
Drill Water	:	100 m3/hr @ 75 m head
Liquid Mud	:	2 x 70 m3/hr @ 75 m head
Bulk Mud/Cement	:	2 x 13.0 m3/min

DYNAMIC POSITIONING

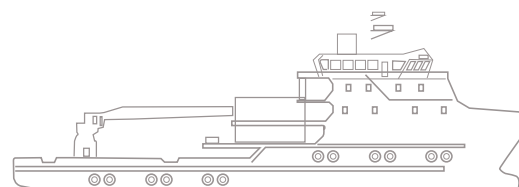
DP System	:	Kongsberg Dynamic Positioning 1
		- 2 x PRS
		- 2 x Wind Sensor
		- 1 x Vertical Ref Systems
		- 2 x Gyro Compass
		- 1 x UPS
		- 1 Control Station

ACCOMMODATION

Configuration	:	2 x 1 man cabins
		4 x 2 men cabins
		8 x 4 men cabins
Total	:	42 men
Hospital	:	1 x 1 men
Accommodation is fully air conditioned.		

GALLEY

Refrigerator Capacity	:	290 liters
Freezer Capacity	:	250 liters



FIRE-FIGHTING

EXTERNAL	:	FIFI Class 1 c/w Water Spray
Fire Pump	:	2 x 1500 m ³ /hr @ 130 MLC
Water/Foam	:	2 x 1200 m ³ /hr @ 12 bar
Search Lights	:	3 x 2000W
Dispersant S/B	:	13 m ³
INTERNAL	:	
Emer Fire Pump	:	55 m ³ /hr @ 4.5 bar
1 x CO2 System	:	in Main Engine Room

MISCELLANEOUS

Sewage Treatment	:	one set
Oily Water Separator	:	one set

GENERAL ARRANGEMENTS

