



# BRITTOIL DIAMOND

7,000 BHP | 90 TBP | DP2 | AHTS | 50t SUBSEA CRANE

## Principal Particulars

Flag	Tuvalu
Class	ABS +A1, Towing Vessel, Fire Fighting Vessel Class 2, Offshore Support Vessel AH, (E), +AMS, +DPS-2, Oil Recovery Capability Class 2
Call Sign	T2HH5
Year Built	2013
Place Built	PRM Offshore Heavy Industries Pte Ltd
Design Draft	6.25 m
Max Summer Draft	6.25 m
Gross Tonnage	3,208.0 T
Net Tonnage	962.0 T
Deadweight (Max Draft)	3,100 T @ 6.25 m
Displacement	5,914 T
IMO No.	9503079
Design	81m Anchor Handling / Supply Vessel

## Dimensions

Length Overall	81.00 m
Beam Overall	16.80 m
Depth Moulded	7.50 m

## Performance

Max Speed	12 kts
Economical Speed	10 kts
* Subject to actual weather and operating conditions	

## Cargo Deck

Deck Cargo Area	650 m <sup>2</sup>
Deck Cargo Dimension	45.0 m x 14.0 m
Deck Cargo Capacity	1,200 T
Deck Strength	5.0 T/m <sup>2</sup>
Reefer Point	6 x 440V and 2 x 220V

## Capacities

Fuel Tank	1,074 MT (90%)
Cargo Fuel Oil Tank*	830.0 m <sup>3</sup> (shared with base oil)
Fresh Water	370.0 m <sup>3</sup>
Drill Water *	1,015 m <sup>3</sup> (shared with oil recovery)
Base Oil*	376.0 m <sup>3</sup> (shared with cargo fuel oil)
Mud Tank*	605.0 m <sup>3</sup> (shared with brine)
Brine Tank*	605.0 m <sup>3</sup> (shared with mud)
Dry Bulk Tank	339.6 m <sup>3</sup> (in 6 tanks)
Oil Recovery*	1,515 m <sup>3</sup> (shared with drill water)

\* Indicates tanks with shared capacity

## Main Engines & Generators

Main Engine	Yanmar 8EY26, 2 x 2,560 kW each
Generator	Caterpillar 3412, 6 x 590kW each + Caterpillar C4.4, 1 x 92kW

## Thrusters & Propulsion

Bow Thruster	Kawasaki KT-88B3, 2 x 550kW (2 x 9.0T)
Propeller	Kawasaki KST-220 ZC/B Rexpeller Azimuth Thruster in kort nozzle

## Deck Cranes

Telescopic Subsea crane	CT Liebherr crane with 50T main hoist at 500mts WD and 15T Aux hoist man riding
Fixed Crane	SWL 5T @ 8m

## Anchor Handling/Tow Equipment

Tow /Anchor Handling Winch	Rolls Royce Brattvaag SL150W-2T double drum waterfall type
Stall Pull Capacity	160.0 T
Brake Holding Capacity	225.0 T
Tow Drum Capacity	1,200 m x 52.0 mm dia wire
Anchor Handling Capacity Storage	1,200 m x 52.0 mm dia wire
Reel Capacity	3 x 1,800.0 m x 52.0 mm dia wire
Tugger Winch	2 x 10.0 T each
Capstan	2 x 5.0 T each
Shark	1 x Triplex H-200, SWL 200.0 T
Jaws	1 x Triplex S-200, SWL 200.0 T
	5.0 m x 2.5 m dia, SWL 300.0T

## Tow/Anchor Handling Wires

Main Tow Wire	1,000.0 m x 52.0 mm dia wire
Spare Tow Wire	1,000.0 m x 52.0 mm dia wire
Anchor Handling Wire	1,000.0 m x 52.0 mm dia wire

## Mooring Equipment

Anchor	2 x 2,500 kg HHP Anchor
Anchor Chain	2 x 17 shackles x 42.0 mm dia
Anchor Windlass	13.0 T @ 0-12 m/min



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## Discharging Rates

Drill Water/Pump	2 x 150 m <sup>3</sup> /hr @ 80 m head
Fresh Water/Pump	2 x 100 m <sup>3</sup> /hr @ 80 m head
Fuel/Pump	2 x 150 m <sup>3</sup> /hr @ 80 m head
Brine/Pump	2 x 150 m <sup>3</sup> /hr @ 80 m head
Liquid Mud/Pump	2 x 100 m <sup>3</sup> /hr @ 80 m head
Dry Bulk Tank	40m <sup>3</sup> /hr

## Accommodation

1 – Berth Cabins	2
2 – Berth Cabins	4
4 – Berth Cabins	14
Total (POB)	66

## Dynamic Positioning System

DP Class	DP 2 L3 NMS6000
References	3 x Veripos LD5 DGPS + 1 x Cyscan + 1 x Radascan
VRU	2
Independent Joystick System	Kawasaki KICS

## Fire Fighting and Rescue

Firefighting System	FiFi 2
FiFi Pump	2 x 1,800 m <sup>3</sup> /hr + 1 x 3,600 m <sup>3</sup> /hr
FiFi Monitor	4 x 1,800m <sup>3</sup> /hr
Spray Boom	2 x 6.0 m
Dispersant Capacity	29.0 m <sup>3</sup>
Foam Capacity	29.0 m <sup>3</sup>
Rescue Boat	1 x 10-man rigid hull waterjet FRC, 218 hp
Life Raft	8 x 25-man
Life Buoy	12
Life Jacket	90
Fixed H2S Detection	Yes

