



# VOS CHALLENGE

## Anchor-handling tug supply vessel

DP-2

Vessel number 3081

### GENERAL

Flag	Singapore
Place built	Fujian South East Shipyard, China
Year built	2016
Class	LR + 100A1 offshore supply ship, tire-tighting ship 1 (2,400 m <sup>3</sup> /h) with water spray, HNLS, oil recovery, *IWS, WDL (7 t/m <sup>2</sup> from aft to frame 71), ECO(TOC), LMC, UMS, DP(AA)
Call sign	9V3689
Vessel type	Anchor-Handling Tug Supply vessel

### PRINCIPAL DIMENSIONS

Length overall (LOA)	65 m
Breadth moulded	16.4 m
Design draft	5.4 m
Gross tonnage	2,387 t
Deadweight	1,781 t

### MACHINERY & PROPULSION

Main engine	2 x MAK 8M25C 2,400 kW
Propulsion system	Controllable pitch propellers (Kort Nozzles)
Total BHP	6,500 BHP
Bow thruster	2 x 10 t (550 kW) electric driven
Stern thruster	8 t (550 kW) electric driven
Generator	3 x 450 kW diesel driven
Shaft generator	2 x 1,200 kW main engine driven
Emergency generator	130 kW diesel driven

### PERFORMANCES

Fuel consumption at 9.5 knots	Abt 12 m <sup>3</sup> /day
Fuel consumption at 7.5 knots	Abt 8.3 m <sup>3</sup> /day
Towing at 4.5 knots	Abt 17 m <sup>3</sup> /day
DP mode	Abt 5 m <sup>3</sup> to 7 m <sup>3</sup> /day
General field duties - average	Abt 7 m <sup>3</sup> /day
Fuel type	ISO 8217: 2005 DMA or later revisions

### ACCOMMODATION

Cabins	11 x 1 bed, 14 x 2 beds
Total	39 men
Hospital	1 man

### LIFE-SAVING EQUIPMENT

Life rafts	2 x 16 men and 4 x 25 men life rafts
Rescue boat	1 x 6 men rescue boat with 30 HP OBM

### EXTERNAL FIRE FIGHTING

Capacity	ABS FIF11 - 2,400 m <sup>3</sup> per hr
Monitor	2 x 1,200 m <sup>3</sup> per hr
Throw x height	120 m x 45 m

### CARGO CAPABILITIES

Fresh water	414 m <sup>3</sup> @ 100 m <sup>3</sup> /hr at 70m head
Drill water	1,200 m <sup>3</sup> @ 100 m <sup>3</sup> /hr at 70m head
Fuel capacity (100%)	557 m <sup>3</sup> @ 100 m <sup>3</sup> /hr at 70m head
Liquid mud / brine / ORO	395 m <sup>3</sup> @ 75 m <sup>3</sup> /hr at 50m head
Dry bulk	186 m <sup>3</sup> @ 40 m <sup>3</sup> /hr at 60m head (4 x 1,650 ft <sup>3</sup> )
Foam	12 m <sup>3</sup>
Detergent	12 m <sup>3</sup>
Deck loading	7 t/m <sup>2</sup>
Clear deck area	425 m <sup>2</sup>
Deck cargo capacity	700 t

### COMMUNICATIONS EQUIPMENT

HF radio	Furuno model RC-1800T
VHF radio	Furuno FM-8800S
Portable VHF radio	3 x McMurdo Model R2 GMDSS
Satellite EPIRB	McMurdo model SMARTFIND E5
Navtex receiver	Furuno NX-700A (GMDSS)
SART	2 x McMurdo S4 Rescue SART
Automatic Identification System (AIS)	Furuno FA-150
Remote Fuel Monitoring System	Krohne flow meters + eGenKit system

### NAVIGATION EQUIPMENT

Radar no. 1	X-Band radar
Radar no. 2	S-Band radar
GPS	GPS plotter
Echo sounder	Navigational Echo-Sounder
Electronic Chart Display System	1 set of ECDIS
Auto pilot	Auto pilot system
Gyro compass	3 x gyro compass
Magnetic compass	magnetic compass
Dynamic positioning	Kongsberg DPS-2
DP position references	DGPS1, DGPS2, laser (Cyscan MK4)

### DECK MACHINERY

Tuggers	2 x 10 t @ 15m/min
Capstans	2 x 5 t @ 15m/min
Deck crane	3 t SWL @ 10 m

### TOWING & ANCHOR HANDLING

Bollard pull	88 t
Anchor handling drum capacity	1,500 m x 64 mm wire rope
Towing drum capacity	1,500 m x 64 mm wire rope
Line pull for AH/towing winch	150 t
Brake holding for AH/towing winch	250 t
Clutch type	Manual / removable
Spare tow wire capacity	1,500 m x 64 mm wire rope
Stern roller	5 m x 1.6 m, 300 t
Tow pins	2 x towing pins of 300 t SWL
Wire/chain stopper	Karmfork of 300 t SWL

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