

# ALP DEFENDER | 306<sup>mt</sup> Bollard Pull

## General Data

CALLSIGN

PDDE

FLAG

The Netherlands

PORT OF REGISTRY

Rotterdam

IMO NUMBER

9737242

BUILT

2017 - Niigata Shipbuilding, Japan

DESIGN

Ulstein SX 157

CLASSIFICATION

≅ 1A1 Fire fighter(II) Offshore service vessel(+,

Anchor handling, Towing) BIS BWM(T) Clean(Design)

COMF(V-3) DYNPOS(AUTR)

E0 Ice(1B) NAUT(OSV(A)) Recyclable SF TMON

DP NOTATION

DP 2 with external force module

BOLLARD PULL

306 mt 2021

MAXIMUM SPEED

19,0 kts

ECO SPEED

9,0 kts

## Main Dimensions

LENGTH O.A.

88,51 mtr

LENGTH B.P.

84,94 mtr

BEAM O.A.

21,00 mtr

DEPTH TO MAINDECK

9,50 mtr

SUMMER DRAUGHT

7,95 mtr

DEADWEIGHT

4.230,3 mt

GROSS TONNAGE

5.901 mt

NETT. TONNAGE

1.771 mt

CARGO DECK AREA

550 m<sup>2</sup>

DECK LOAD

10 mt / m<sup>2</sup>

CHAIN LOCKER CAPACITY

2x 255,6 m<sup>3</sup>

## Equipment

TOWING WINCH

Rolls Royce / Brattvaag mod. SL400-3T

1st speed: 401 mt @ 0-13 m/min

BRAKE HOLDING LOAD

600 mt on 1st layer, 675 mt on 1st layer static load

DRUMS CAPACITY

3x 2.000 mtr x 83 mm Ø

CONTROL

Remote controlled from bridge

CABLE LIFTERS

500 mt @ 0 - 9m/min, 2x 76 mm Ø 1x 127 mm Ø

MAIN TOW WIRES

2.000 mtr x 83 mm Ø

SPARE TOWING WIRES

2.000 mtr x 83 mm Ø

1.200 mtr x 83 mm Ø

WORK WIRES

400 mtr x 83 mm Ø

STORAGE REELS

2 compartments: 2.335 mtr and 550 mtr of 86 mm Ø wire

3 compartments: 990 mtr of 86 mm Ø wire

STERN ROLLER

2.000 mm Ø, total Length 5.000 mm, 650 mt SWL

DECK WINCH

2x 30 mt pull GOG winch @ 0 - 12 m/min 38 mm Ø,

Capacity 720 mtr x 42 mm Ø wire

1x 15 mt pull Tugger winch @ 0 - 30 m/min 28 mm Ø,

Capacity 710 mtr x 28 mm Ø wire

CAPSTANS

2x Rolls Royce, 13,2 mt pull @ 0 - 10 m/min

TOWING PINS

2x Karmoy set of 2 pins 450 mm Ø 300 mt SWL

KARM FORKS

2x Karmoy 500 mm Ø 600 mt SWL

inserts For Chain 50 mm Ø - 125 mm Ø - 165 mm Ø

QUARTER PINS

2x popup pins 450 mm Ø 300 mt SWL

GIPSY WHEELS

For Chain: (Detachable up to max of 165 mm Ø)

2x 76 mm Ø: Six Pockets width 398 mm and 2.190 mm Ø

2x 84 mm Ø: Six Pockets width 425 mm and 1.600 mm Ø

2x 92 mm Ø: Five Pockets width 461 mm and 1.545 mm Ø

ROV PREPARATION

1x dedicated mezzanine deck available for WROV and LARS

CRANES

Triplex (KNC-60/3.0/105/45).

Capacity SWL 3 mt at max 15 mtr

Capacity SWL 6 mt at max 10 mtr

## Tank Capacities

BALLAST WATER

3.103,6 m<sup>3</sup>

FRESH WATER

307,6 m<sup>3</sup>

MAIN ENGINES

3.183 m<sup>3</sup>

AUXILIARY GENERATORS

349 m<sup>3</sup>

ENDURANCE AT FULL POWER

49 days

ENDURANCE AT HALF POWER

84 days

## Machinery

MAIN ENGINES

18.000 kW / 600 Rpm 4 x 4.500 kW MAK 9M32C

PROPELLERS

4 blades, Berg CPP x 2 with fixed nozzles, 5.000 mm Ø

RUDDERS

Rolls-Royce electro-hydraulic rotary-vane.

Type: Flap rudder (SR743 FCP)

BOW THRUSTERS

2x Berg Tunel, CPP 22.4 mt @ 211 Rpm, 1.500 kWt,

2.550 mm Ø

STERN THRUSTERS

2x Berg Tunel, CPP 14.8 mt @ 306 Rpm, 1.050 kWt,

1.950 mm Ø

GENERATORS

3x CAT C32 940 kW @ 1.800 Rpm 60 Hz, 3 phase

SHAFT GENERATORS

2x AEM Shaft Gen 3.150 kWt @ 1.200 Rpm 60 Hz,

3 phase, Driven by ME

## Crew occupation

TOWING-19 crew | 24 HR DP-21 crew | 24 AH

DP-22 crew

## Accommodation

TOTAL ALLOWED PERSONS

35

CABINS

Single berth 25

Double berth 5

HOSPITAL

Single berth -Category A (24)

