

# Voe Earl

Multipurpose Anchor- Handling Tug / Workboat  
Call sign – 2FEP6

Built 2012  
MMSI – 235.090.599



## General

Type of vessel	: Damen Multicat®2613
Builder	: Damen Shipyards Hardinxveld
	: Yard No. 571655
Basic Functions	: Anchor handling, dredger service, supply, Towing, hose handling, survey, ship assist, Cable lay, dive support, ROV support.
	Salvage & salvage support
Classification	: Bureau Veritas, I*Hull•MACH Tug • AUT UMS
	: Unrestricted Navigation
	: Nat. Authorities
	: MCA workboat Category 1
	: 150 miles from shore

## Dimensions

Length o.a.	: 24.07m
Beam	: 12.97m
Depth at sides	: 4.00m
Draught aft	: 3.5m

## Tank Capacities

Fuel oil	: 120.00m <sup>3</sup>
Fresh water	: 51.10m <sup>3</sup>
Ballast water	: 30.00m <sup>3</sup>
Black/grey water	: 7.30m <sup>3</sup>
Dirty oil	: 3.60m <sup>3</sup>
Free deck space	: 180m <sup>2</sup>
Deck loading	: 10 t/m <sup>2</sup>

## Performances

Bollard Pull	: 53.4 tons (certified)
Bollard Pull astern	: 35.0 tons
Speed	: 10.6 knots

## Propulsion System

Main engines	: 2 x Caterpillar 3512 B TA
Total power	: 2850 bkW at 1600 rpm
Gearboxes	: 2 x Reintjes WAF 773 7.087:1
Propulsion	: 2 x fixed pitch props in nozzles, 2400mm
Bowthruster	: 2 x Kalkman 257kW in pushbows
Rudders	: 2 x Independent fishtail 45°

## Auxiliary Systems

Generator sets	: 2 x Caterpillar C 04.4, 107kVA each
Harbour set	: Caterpillar – C 04.4, 60kVA
Hydraulic power	: Caterpillar C-32 TTA, 970kW at 1800 rpm
Transfer pumps	: Fuel & fresh water - 50m <sup>3</sup> /hr

## Deck Lay-out

Deck cranes	: 2 x Effer 200.000 4S   10.5 T @ 16m
Towing winch	: 50T pull, 125T brake   700m x 48mm
Anchor handling	: 100T pull, 150T brake   150m x 48mm
Tugger/Mooring winches	: 4 x 13T pull   200m x 22mm + 19mm ground chain
Mooring spread	: 4 x 1000kg Delta Flippers + cowcatchers
Pop-ups fore deck	: Shark Jaw – Triplex H-200
	: Guide Pins – Triplex S-65
	: Side pins – WK 400
Pop-ups aft deck	: WK Triple pin type
Towing hook	: Mampaey 45 T
Bow roller	: 100 T SWL 6m, Ø 1200mm
Stern roller	: 60 T SWL 2m, Ø 760mm
Capstan	: WK 5 tons

## Accommodation

Comfortable heated and air-conditioned accommodation  
For 8 persons, in 4 cabins, galley, sanitary facilities, etc.

## Navigation & Communication

Radar system	: 2 x JMA 5208-6'+4' (ARPA)
Compass	: Caessens & Plath
Gyrocompass	: Alphaminicourse
Echosounder	: 2 x JRC JFE-380 in pushbows
DGPS	: 2 x JRC JLR7800
Speedlog	: JRC JLN 205
Chart Plotter	: Navisailor 4000ECS + Backup
Autopilot	: Alphatron Multicourse
Navtex	: JRC NCR 333
Intercom	: Alphacall MF (9 Stations)
VHF	: 2 x Sailor RT 6222 / DSC
VHF Handheld	: 3 x Icom IC-M71
VHF GMDSS	: 2 x Sailor SP3520
Inmarsat-C	: 2 x Sailor TT6110
AIS	: JRC JHS 182 Class A
SSB	: Sailor System TT6000
UPS system	: APC 1600W – 220V
CCTV	: 4 x Alphatron Eclips
Sat TV	: Intellian I6p
GSM cellphone, email & internet (coastal)	

## Additional

DP System	: Navis JP3000
Seabed levelling/dredging	: Aft Portal A-frame (1 x 60t SWL or 2 x 30t SWL)