

# 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.  
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>

## Performances

Bollard Pull (certified) : 53.4 tons  
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 : Alphantron 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 Alphantron Eclips  
Sat TV : Intellian I6p  
GSM cellphone, email & internet (coastal)

## Additional

DP System : Navis JP3000  
Seabed levelling/dredging : Portal A-frame for 30t plough