

## Expedition Yacht

A trawler conversion project

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### Main characteristics

Type	long range explorer yacht
Length - Beam - Draft (aft)	40.2m (132ft.) - 9m (29.5ft.) - 4.6m (15ft.)
Hull - Superstructure	Steel & aluminum
<a href="#">Main engine</a>	9 cylinder Deutz 628, 2000 HP (850 rpm)
Generators	1x <a href="#">Deutz 1015c</a> 275 KW 2x <a href="#">Northern Lights M1066A1</a> - 105 KW @ 50 Hz 1x <a href="#">Northern Lights M944W3</a> - emergency - 26 KW @ Hz
Main electrical system	3 phase 400V, 50 Hz
Consumer electrical system	220V, 50 Hz and 110V, 60 Hz (via converter)
Speed (max./cruise)	13 /11 knots
Range	5.000 nm (@ 10 kn)

### Accommodation

Guests cabins	8: 6x one queen, 2x two twins; all guest cabins will have <a href="#">ceiling-hidden pullmans</a> for total guest berth capacity of 26**
Crew cabins	7: 1x queen; 6x two twins

### Construction

Year built/refit	1989 / 2010
Builder	Maaskant Shipyards, The Netherlands & Expeditionyachts, Panama
Naval designer	Herman Jansen / Kleijweg Design
Interior designer	<a href="#">Peter Sampson</a>
Classification	Internationally: Lloyds Register yacht; compliance with MCA LY2, unattended engine room; Panama: passenger ship, coastal voyages
Flag	Panama

### Ship systems

Main switchboard	<a href="#">Piet Brouwer Electra</a>
Air conditioning & fresh air	<a href="#">Heinen &amp; Hopman</a> / <a href="#">Marine Air</a> chiller system
Engineroom ventilation	Heinen & Hopman (automated)
Stabilizers	2 Quantum Hydraulics Maglift-330 <a href="#">rotary stabilizers</a>

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Watermakers

[Hatenboer](#) Demitec 7.5 m<sup>3</sup>/day (1.950 gl./day)

Sonar

Farsounder [FS-3DT](#)

Sprinkler system

[Novenco XFlow watermist system](#) for accommodations & engine room (SOLAS approved)

Fuel separation

CJC off-line diesel oil filtration system ([PTU2 27/27](#))

### Environmentally 'green' features

Sewage treatment plant

[Triton Format](#) Ultra-filtration system with capacity for 40 people(exceeding Marpol / Alaska standards)

Toilets

Triton Format/Roediger (18x) & JETS vacuum system

Deck covering

[Bolideck Select Teak](#) (synthetic)

Other

- Re-use of treated grey/black water for deckwash
- Using hot engine cooling water to heat tap water
- 95% LED lighting
- [RWO SKIT/S-DEB](#) oily water separator
- CJC fine filter for lubrication oil filtration ([HDU 27/27](#))

### External out-fit & deck equipment & recreation

Main forward crane

10-ton certified crane (own design)

[Tender/utility crane](#)

2.5 ton crane [Steelhead Marine](#)

[Helipad](#)

["Mulder" design](#) extractable deck\*\* (allows Eurocopter EC130B4 & Bell Jetranger III)

Tenders

2 custom aluminium cat tenders with forward ramp and Steyr 260 HP inboard diesel with stern drives (SOLAS approved rescue boats)  
5 expedition kayaks & assorted non-powered water toys

Liferafts

[4x Viking](#) 20-person SOLAS A

### Noise & vibration control

[Van Cappellen](#)

Measures as determined by their studies

### Coating application & finishes

Hull & superstructure coating

System as recommend by [Marten Yacht Painting Advice](#) (no fully faired hull)

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### Diving equipment & submarines

High pressure compressors	2x Bauer <a href="#">Verticus PE500VE</a> Poseidon (IK150 block), super silent version - 500 l/m (17.7 cfm) with Bauer Air-cool & P61 filter system
Low pressure compressors	2x <a href="#">CompAir HV07-RS</a> hydrovane compressors with 2x <a href="#">OMI HTD30A</a> air dryer and 2x Aaragon activated carbon filtering tower
Nitrox membrane	2x 500 l/minute membrane (Parker/Aaragon)
<a href="#">Submarine</a>	Carrying and storage capacity for <a href="#">SeaMagine Triump</a> (3-pax) or <a href="#">Triton 1.000/3</a> or <a href="#">Yachtdive VAS (4-pax.)</a>

### Tankage capacity

Diesel	60 tons approximately (15.600 gl.)
Drinking water	30 tons (7.800 gl.)
<a href="#">Jet fuel</a>	6 tons (1.550 gl.) ***
Dirty (oily) water	6 tons (1675 gl.)
Sewage holding tank	6 tons (1675 gl.)

\*\* Remarks: coming soon

