Rijnstroom



Multi Purpose Vessel 4716 - DP2 - TIER III - Hybrid - ULEV

IMO nr.	IMO 1145807
Type MPV	4716 DP2
Constructed	2027
Bollard pull	Approximately 50 T
Speed	11.0 knots
Free deck space	465 m^2
Deckload	10.0 ton/m^2
Home port	Hardinxveld-Giessendam, The Netherlands
Callsign	PDIW

Basic functions

Towing, Anchor handling, Dredging support, Diving support, Oil & Gas support, Renewable Energy support, Surveying, Ploughing, ROV support

GT	1066 GT
Dimensions	47,10 x 16,60 x 4,70 mtr.
Draft (min. / max.)	2.55 / 3.00 mtr.

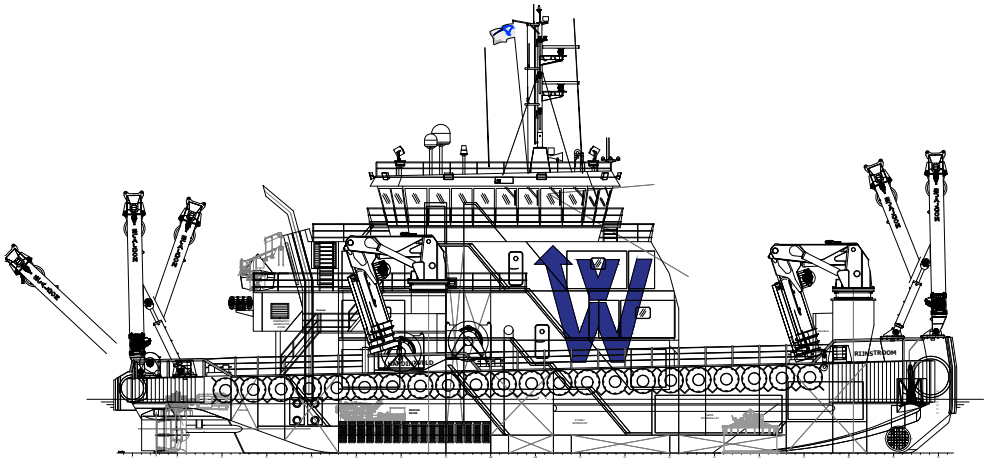
Engines	1x Caterpillar C32 - 970 kW (Center)
Gear boxes	1x Reintjes, type WAF 675L
Generator sets	1x Caterpillar C7.1 - 111 ekW, 2x Caterpillar C32 - 940 ekW, 1x Caterpillar C18 - 550 ekW, 1x Caterpillar C32 - 600 ekW
Microgrid	2x 155kVA
Batteries	508 kWh
Thrusters	2x Veth Azimuth thruster 968 KW, 1x Veth Compact Jet 524 KW, 2x Veth Tunnel truster 380 KW

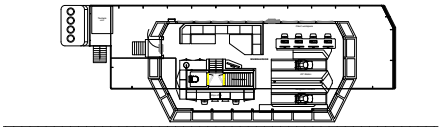
Tank capacities	Fuel oil	310 m^3	Urea	33,5 m^3	Dirty oil	5,15 m^3	Bilge water	8,5 m^3
	Lubr. oil	2,8 m^3	Hydr. oil	3,5 m^3	Sewage	37 m^3	Portable water	75 m^3

Transfer pumps	Fuel 60 m^3/hr - 4,8 b - bunker / delivery rate 50 m^3/hr portable water: 50 m^3/hr - 4,0 bar
Nautical equipment	GMDSS A3 - DP2
Deck equipment	Hydraulic cranes, 2x HS Marine AKC 620/17 T @ 21 mtr. , winches on cranes 15 T single fall / 30 T double fall - AH winch 220 /290 T Towing winch 110/290 T - Bow roller 9.5 mtr. / dia. 2.0 mtr, SWL 250T - Stern roller 4 mtr. / dia. 1.25 mtr, SWL 250 T - Moonpool 1.0 x 1.0 mtr. - Hydraulic bow door - 2x Tuggerwinch 15 T - Kooiman Delta pin SWL 150 T (fore deck) - mob boat
Special	Biodegradable oil in all deck components / full hybrid, up to 12 hr stand-by on battery without running diesel gen. / 2x starlink connection
Optional	Hydraulic A-Frame 60T SWL on main hoist, 20T SWL aux. Winch single fall, 40 T double fall / 4pt. Mooring system 15T pull-27T hold / Spudpoles 18 mtr, 600 mm. / Boatlanding / USBL pole / Power supply 2x 200Amp, 480V, 60hz + 2x 125Amp, 400V, 50hz / Taut Wire / Cy-Scan
Accommodation	Comfortable heated and air-conditioned accommodation for a total of 27 persons is provided, consisting of 13 single cabins, 7 double cabins, and a hospital cabin, all positioned in the deckhouse above the waterline in accordance with MLC regulations. Client office and dayroom facilities are also available.

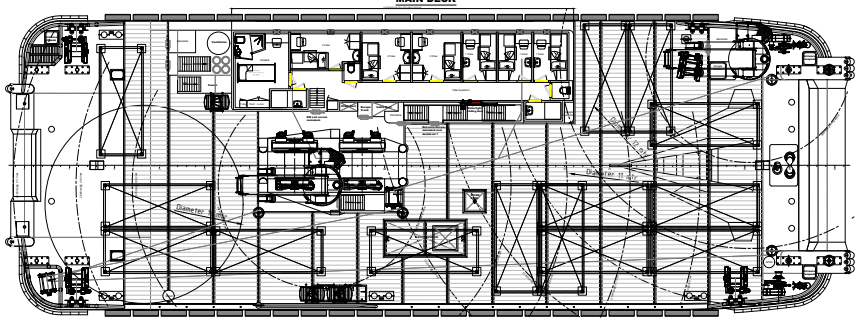
Classification	Bureau Veritas I HULL MACH Offshore Support Vessel Tug - standardized design bollard pull (49)1 Anchor Handling - Cyber Resilent - SP(32) - IP (32) Unrestricted Navigation	AUT-UMS Dynapos AM/ATR ALM Cleanship Electric Hybrid (PM, PB) Inwatersurvey Stablift ULEV

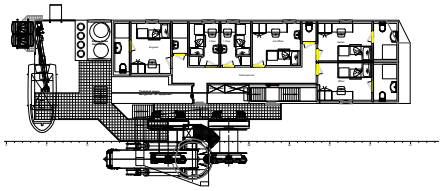
The right partner... **all over the world.**



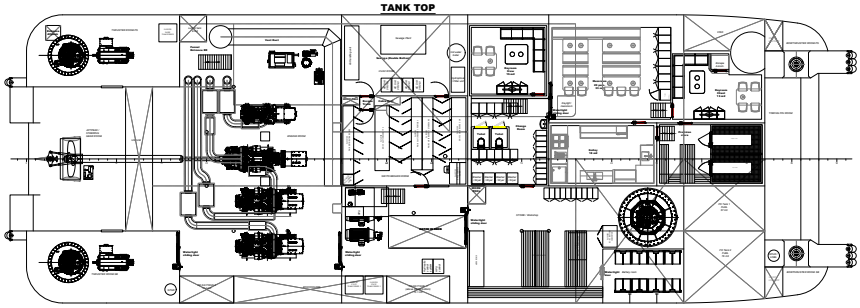


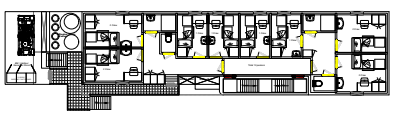
MAIN DECK





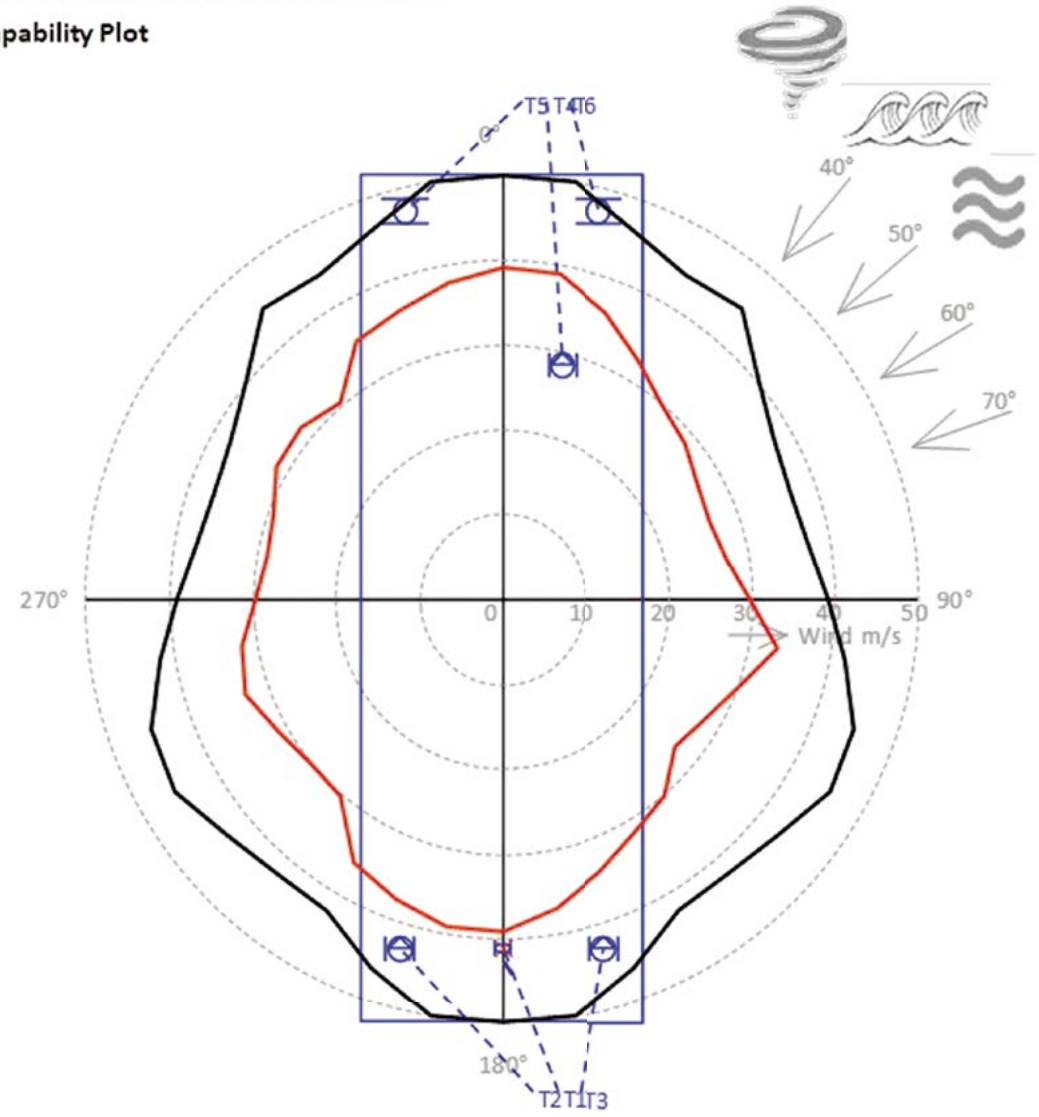
TANK TOP





Case , All available and Worst Case

Capability Plot



IMCA North Sea Wave Period table		Thruster		Vessel	
Most limiting	70°	Number	4	Length	47.1m
Wind	26.5m/s	Usage	100%	Breadth	16m
Current	0.77m/s	Force	73KN	Draught	3m
Wave spectrum	JONSWAP γ=3.3 H=10.55m, P=15.2s	Thrust	7.3mT	Displ.	3m

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