

ASD Z-DRIVE TUG

VORTEX VELA

5400 BHP | 71 TBP



SPECIFICATIONS:

ASD - Terminal & Towage Support , FIFI 1

GENERAL:

Vessel Type:	Azimuth Stern Drive
Year Built:	2024
Port of Registry:	Monrovia
IMO no:	9778222
Official no:	24295
Call Sign:	5LRX5
Flag:	Liberia
Classification:	ABS
Notation:	+A1, Towing vessel, +AMS, Fifi 1 with Water Spray, Unrestricted

DIMENSIONS:

Length Overall:	31.00 m
Beam:	Moulded 11.00 m
Depth:	Moulded 5.60 m
Design Draft:	4.30 m
GRT:	471 T
Displacement:	820.45 T

CAPACITIES:

Fuel Oil:	120.0 T
Fresh Water:	30.0 T
Dirty Oil:	3.5 T
Dirty Water:	3.5 T
Ballast:	36.0 T
Foam:	10.0 T

MACHINERY:

Main Engines:	2 x CAT 3516C,
Total Power:	2 x 2000 kW at 1600rpm
Z-Propeller:	2 x Schottel SRP 1515FP rudder propeller sets c/w fixed pitch propeller in nozzle, Ø2600mm Reduction ratio 6.554:1
Bow Thruster:	1x Tunnel Bow thruster c/w Cummins Diesel Engine (175kW)

POWER GENERATION:

Main Generators:	2 x CAT, 150kW/380V/3ph/50Hz/1500rpm
Harbour Generator:	1 x CAT 38kW/380V/3ph/50Hz/1500rpm

DISCHARGE CAPACITIES:

Fuel Transfer Pump:	20m³/h @ 30m
Bilge & Ballast Pump:	36m³/h @ 30m
GS & Fire Pump:	40m³/h @ 50m
Emergency Fire Pump:	25m³/h @ 30m
Aircond & Refrig Sea Water	21m³/h @ 30m
Cooling Pump:	

PERFORMANCE:

Bollard Pull:	71.25 T
Speed:	12 Knots



Commercial and Operational Office

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DECK EQUIPMENT:

Anchor:	2 x HHP anchors, each 675kg
Anchor Winch:	1 x W-rig split single drum winch,
Drum capacity:	110m+110m of dia 80mm pp rope
Drum pull:	18T x 0~10m/min (1 st layer) 4T x 0~37.5m/min (1 st layer)
Drum brake holding:	15.3 T (static)
Towing Hook:	SWL 70 Tonnes
Aft Towing Winch:	1 x W-rig single drum winch
Drum capacity:	700m x 52mm
Deck Crane:	1 x EFFER MODEL 130M 3S Crane, 1 ton @ 10m

VESSEL SAFETY EQUIPMENT:

Inflatable Lifafts:	2 x 15 men
Lifebouys:	8
Fireman's outfits:	6
Life Jacket:	15
WorkVest:	1 shipset
Pyrotechnics:	1 shipset
Fire Extinguisher:	1 shipset
Fire Alarm Panel:	1 shipset
CO2 System:	1 shipset

EXTERNAL FIRE FIGHTING:

Equipment:	Classed as FiFi1 1 No, 2700 m ³ /h driven by port main engine
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ACCOMMODATION:

2 x 1 Berth Cabins	(2 men)
3 x 2 Berth	(6 men)
1 x 4 berth	(4 men)
Total Berths:	12 Men

NAVIGATION/ COMMUNICATION:

GMDSS:	A1+A2+A3 Area
VHF:	2 x JRC JHS-770S
2 Way Portable VHF:	3 x JRC JHS-7
SART:	1 x JOTRON Tronsart 20
MF/ HF:	1 x JRC JSS-2150
EPIRB:	1 x JOTRON TRON 6S
NAVTEX:	1 x JRC NCR-333
INMARSAT C:	1 x JRC JUE-87
Radar:	1 x JRC JMA-5212-6
GPS:	1 x JRC JLR-7500
Depth Sounder:	1 x JRC JFE-380
Auto Pilot:	1 x SAURA SA-10
AIS:	1 x JRC JHS-183
Magnetic Reflector Compass:	1 x SAURA SR-165
GPS Compass:	1 x VECTOR G2
Sound Systems:	Sound Power Phones and PA System
Search Light:	2 x 2000W
Flood Light:	2 x 500 W, halogen floodlight forward 2 x 1000 W, halogen floodlight aft

MISCELLANEOUS:

Oily Bilge Water Separator:	1 No, 0.5m ³ /hr @ 2kg/cm ²
Sewage Treatment Plant:	suit for 11men
Fresh Water Heater:	150L
Fuel Oil Purifier:	1 No, Maker: AfaLaval, MAB103
Air Compressor:	2 Nos, 20m ³ /h @30bar
Air Receiver:	2 Nos, 100L@30kg/cm ²
Wire stoppers on side bulwark:	1 shipset
Protection bar for the hatches on aft deck:	1 shipset