

# M.V. HIGHLAND ENDURANCE

UT722L - 16,320 BHP ANCHOR HANDLING TUG SUPPLY VESSEL



## REGISTRATION

Owner	GulfMark UK Ltd
Manager	Soviknes Verft, Norway 2003
Classification	ABS A1, Towing Vessel, Offshore Support Vessel, AMS, ACCU, DPS-2
Flag	UK

## DIMENSIONS

LOA	80 m
Breadth (Moulded)	18 m
Depth (Mould to sh.dk)	8 m
Draft (Max)	6.6 m
GRT	3,160 T
NRT	1,187 T
Deadweight @ 6.6 m	2,750 T

## CARGO CAPACITY

Deck Area	570 m <sup>2</sup>
Deck Load	1,500 T
Fuel Oil	1,150 m <sup>3</sup> @ 100%
Potable Water	499 m <sup>3</sup> @ 100%
Drill Water	1,669 m <sup>3</sup> @ 100%
Oil Based Mud	2,725 bbls @ 100%
Base Oil	1,264 bbls @ 100%
Brine	5,257 bbls @ 100%
Dry Bulk	10,000 cuft @ 100%

## DISCHARGE RATES

Fuel	250 m <sup>3</sup> /hr @ 90 m hd
Pot Water	250 m <sup>3</sup> /hr @ 90 m hd
Drill Water	250 m <sup>3</sup> /hr @ 90 m hd
Oil Based Mud	75 m <sup>3</sup> /hr @ 90 m hd
Base Oil	125 m <sup>3</sup> /hr @ 90 m hd
Brine	2 x 75 m <sup>3</sup> /hr @ 90 m hd
Cement	80 T/hr @ 90 m hd
Barytes	60 T/hr @ 90 m hd
Bentonite	100 T/hr @ 90 m hd

## MACHINERY

Main Engines	4 x 4,080 BHP
Bow Thrusters	2 x 1,180 BHP
Stern Thrusters	1 x 1,180 BHP
Rudders	2 RRM High Lift
Propellers	2 x CPP (nozzles)
Joystick	1 x Kongsberg Joystick

## ACCOMMODATION

14 x 1 Man / 5 x 2 Man  
2 x 4 Man / 1 x 1 Man (Hospital)

## FIREFIGHTING

FiFi 1 (DNV Classed)  
2 x 1500 m<sup>3</sup> / hr centrifugal pumps  
2 x 1200 m<sup>3</sup> / hr Monitors

## DYNAMIC POSITIONING (DP2)

Kongsberg K-POS 21, Fanbeam, HIPAP, 2 x DGPS, IALA, 2 Wind sensors

## BOLLARD PULL

179 T Continuous

## CRANES

1 x 5T @ 10m or 2.5T @ 16m  
1 x 1.5 T @ 13.5m or 0.75 T @ 22 m  
(Retractable crane in cargo rail aft)

## TOWING AND ANCHOR HANDLING

Triple Drum Brattvaag Winch  
625 T Brake / 500 T Pull

## NAVIGATION AND COMMUNICATION EQUIPMENT

1 x Furuno 10cm ARPA Radar  
1 x Furuno 3cm Radar  
1 x Furuno Satellite Navigator GP31  
1 x Jotron EPIRB Type TRON 40S  
2 x Jotron 9GHz Radar transponder  
3 x Sailor SP 3110 VHF GMDSS  
4 x Motorola GP 900 portable UHF  
1 x Anschutz gyro compass-20 compact  
1 x Anschutz digital autopilot  
1 x Radar monitor aft  
1 x Sailor Mini M / 1 x Furuno SATB  
1 x Furuno echo sounder FE-700  
1 x Furuno Doppler speed log DS80  
2 x Deif wind indicator  
1 x Furuno MF/HF SSB Radio station  
1 x Furuno DSC terminal DSC 60  
2 x Thrane & Thrane SAT C  
1 x Furuno Navtex receiver NX-500  
1 x Sailor Compact VHF, built in DSC  
1 x Furuno Weather Fax  
1 x Sailor RT 4822 simplex VHF  
1 x Telko Electronic Chart System  
3 x TSS Meridian gyro compasses  
3 x Wind sensors

## AFT AH DRUM (1)

Capacity	8000 m of 83mm
Spd/Pull Low Gear	200-500T @ 14-32 m/min
Spd/Pull High Gear	100-250T @ 28-72 m/min
Spooling Gear	Load 57 T, speed 3m/min

## FWD AH TOW DRUMS (2)

Capacity	3000 m of 83mm each, Ttl 6000m
Spd/Pull Low Gear	230-500T @ 14-31 m/min
Spd/Pull High Gear	113-250T @ 28-62 m/min
Spooling Gear	Load 25T, spd 3m/min each
Secondary Drums	(2) -Upper Deck-65 T pull
Capacity	500m of 83mm each, total 7000m

## SECONDARY DRUMS (2)

Upper Deck	65 T pull
Capacity	3500m of 83mm each, total 7000m
Spooling Gear	Load 23T spd 3m/min each

## SPARE WIRE REEL (BELOW DECK)

7.5 T pull  
Capacity 1500 m of 83mm - Spare Tow Wire

## 2 TUGGER WINCHES (MAIN DECK)

20 T pull  
Capacity: 600 m of 83mm each, total 1200 m

## GYPSIES

2x3", 2x3¼", 2x4"

## 2 KARM FORKS

SWL 650 T (50-165 mm)

## 4 TOWING PINS

450mm diameter SWL 330T  
2 "Pop up" Pins - SWL 95 T

## SMIT BRACKET

200 T fitted on Bow

## CHAIN LOCKERS

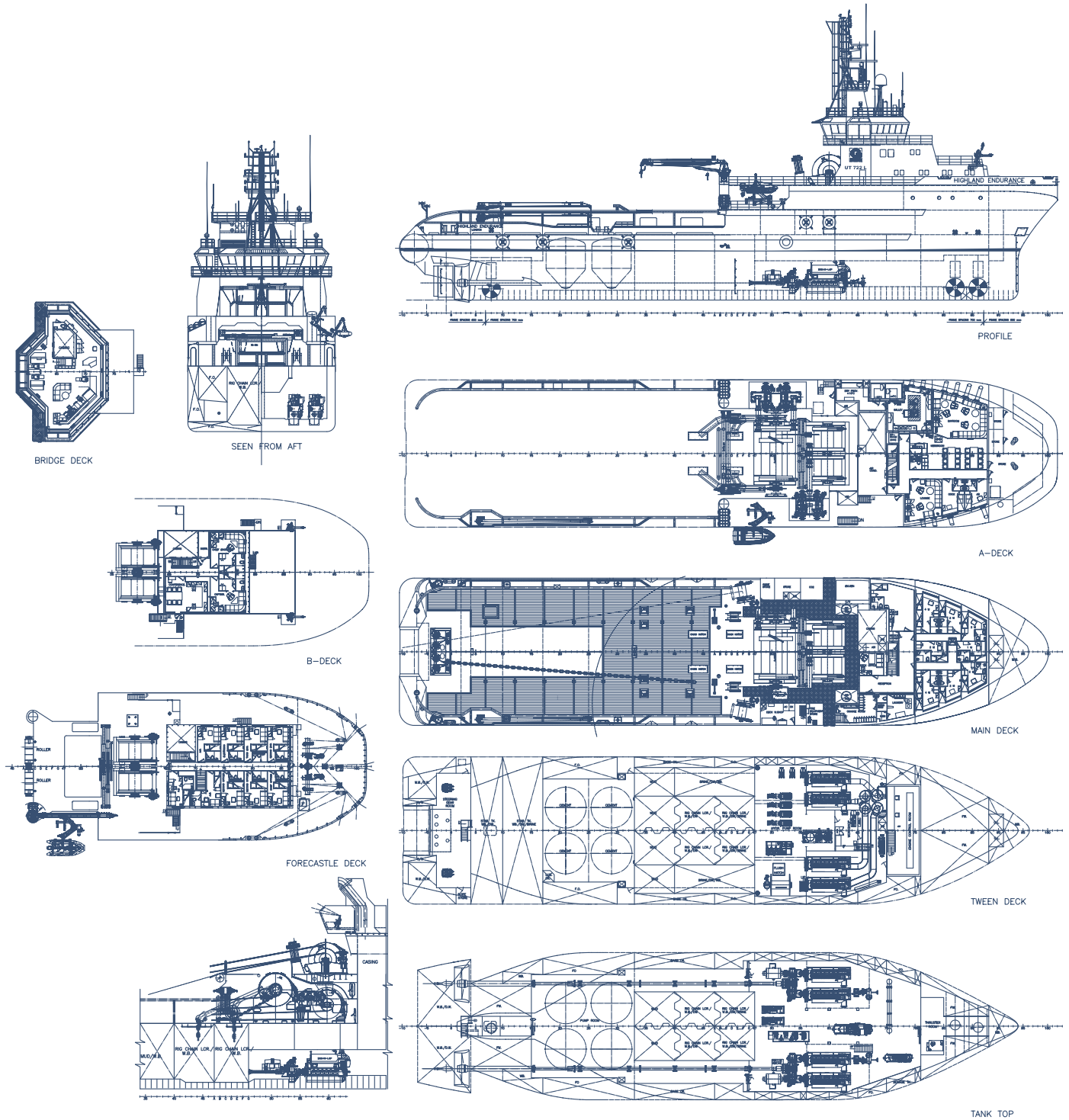
552 m<sup>3</sup> total (4)  
(MAX: 4 x 1,800 m of 83mm chain)  
Towcon 2000+ towing system  
Bridge operating system in UMAS control chair for main engine, thrusters, steering gear, all drums, spooling gears, karm forks / towing pins  
Winch system powered by 4 Electro Hydraulic Motor Pump sets



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GENERAL ARRANGEMENT DRAWING





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## TANK CAPACITIES

TANK	CUBIC METRES			BARRELS		
	FUEL OIL	FRESH WATER	DRILL WATER	OIL BASED MUD	BRINE	BASE OIL
FUEL (16)	94.2 91.5 76.6 61.1 47.5 73.2 73.2 102.6 101.7 38.5 38.5 92.3 92.3 21.4 15 15					
FRESH WATER (4)		184.6 197.2 58.9 58.9				
DRILL WATER (12)			158.5 272.7 194.3 113.7 113.7 133.7 133.7 140.7 139.3 134.5 133.7			
OBM (4) (DEDICATED)				907.6 908.2 454.1 454.1		
BRINE (5)					1,726.6 860.4 854.8 907.6 907.6	
BASE OIL (2)						632 632
<b>TOTAL</b>	<b>1,150</b>	<b>499</b>	<b>1,669</b>	<b>2,725</b>	<b>5,257</b>	<b>1,264</b>