SHIP SPECIFICATION



AHT/Multipupose tug “ARAL”

2028 KWT – LMC -UMC– AHTS

ENKA İNŞAAT VE SANAYİ A.Ş.

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CLASS AND FLAG DATA	
Type	Tug
Year built / Shipyard	2004/ Netherlands
Class	LR
Class symbol	+100A1 Tug, LMC, UMS
Flag	Kazakhstan
Port of registry	Aktau
Call sign	UQT
IMO number / or Class number	9313979
DIMENSIONS	
Length (overall)	28,16
Length (between perpendicular)	25,57
Breadth (moulded)	9.5 m
Depth (moulded)	3.1 m
Draft (summer)	2.5 m
Deadweight	141.3 tons
Registered gross tonnage	224
MACHINERIES	
Main engines	2 x Cat 3512 DITA- 1014 kW each
Auxiliary diesel-generators	1 x 340 kVa Cat 3408 DITA 2 x 65 kVaJonh Deere
Bow thruster	VETH VT-150/ 160 kW
CPP / FPP and Rudder(s)	Twin screw fixed pitch propeller in nozzles, rudders
Steering gear	Manufacturer : Flexion Model:HYD-10-001-02B Proj Nr:628805
AUXILIARY EQUIPMENT	
Oily water separator	DVZ 250 VC-OIMASTER / 1pc.
Water distiller	H.E.M DESALINATION SYSTEM SERIES 25 / 1pc.
ANCHOR AND MOORING EQUIPMENT	
Anchor windlass	MENAROM S.A- Type 2 VAT – E20.5k2- Nominal pull :22KN
Anchors	Type: Schmitt high holding fully balanced stockless high holding power anchor / 455 kg / 2 pcs
Chains (length, caliber)	Total length:412,5 m – Port side :7 shackles, Stb.side 8 shackles / Dia : 20,5mm
Capstan	Type: LK EP 5000 (RR 810T/IEC132-4) Load Pull : 5000 kg
TOWING AND ANCHOR HANDLING EQUIPMENT	
Towing winch / drum	tow / anchor handling double drum winch SWL 30t (50t hold)
AH winch / drum	tow / anchor handling double drum winch SWL 30t (50t hold)
Towing wire dimensions and SWL/ BL	670 m x 38 mm / SWL:20,6 ton / BL :103 ton
AH wire dimensions and SWL/ BL	400 m x 38 mm / SWL:20,6 ton / BL :103 ton
Stern roller	700 x 5200 mm
Towing pins	2
TANKS FULL CAPACITIES	
Fuel tanks	105,01 m^3
Oil tanks	1,9 m^3
Fresh water tanks	38,1 m^3
Sewage water tanks	12,53 m^3
Oily bilge water tanks	7,52 m^3
Oil residues (sludge) tanks	1,9 m^3
TRANSFER RATES	
Fuel	30 m^3 per hr

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Fresh water	30 m³ per hr
Sewage water	10 m³ per 6hr
Oily bilge water	3 m³ per hr
Oil residues (sludge)	3 m³ per hr
DECK CAPACITY	
Clear deck dimensions (L x B)	11 x 9 m
Clear deck area	99 m²
DECK CRANE(S)	
Manufacturer	HEILA / HLRM 140-3S
SWL	10 ton
Location	Aft deck
PERFORMANCE	
Maximum speed / consumption	12 knots / 8,4 tons
Economical speed / consumption	10 knots / 5,7 tons (with towing) / 4,3 tons (without towing)
Bollard pull	27.8 tons
NAVIGATION AND COMMUNICATION	
GMDSS area	[A1 +A2]
Radar 1	Furuno FR-1500 Mark 3 ARPA
Radar 2	Radio Holland RHRS- 2005RC Riverradar
AIS	ACR NAUTICAST X – PACK AIS
EPIRB	JONTRON AS – 40S s/n: 120AD50147
Radar transponder	JOTRON TRON SART
VHF radio station	2 x FURUNO FM 8500
MF/HF radio station	Furuno FS-1570 SSB
Two–way portable VHF	Samyung STV- 160-I
	Samyung STV- 160-II
Magnetic compass	Kelvin Hughes Pilot MK 4 s/n: 61997
Gyro compass	TOKIMEC ES-160
Satellite compass	Furuno SC-60
Auto pilot	Seaplot - 75
NAVTEX receiver	Furuno NX-500
GPS receiver	Furuno GP-80
Echo sounder	ELAC LAZ 5000
Speed log	Furuno DS-80
Satcom	Thuraya SF2500

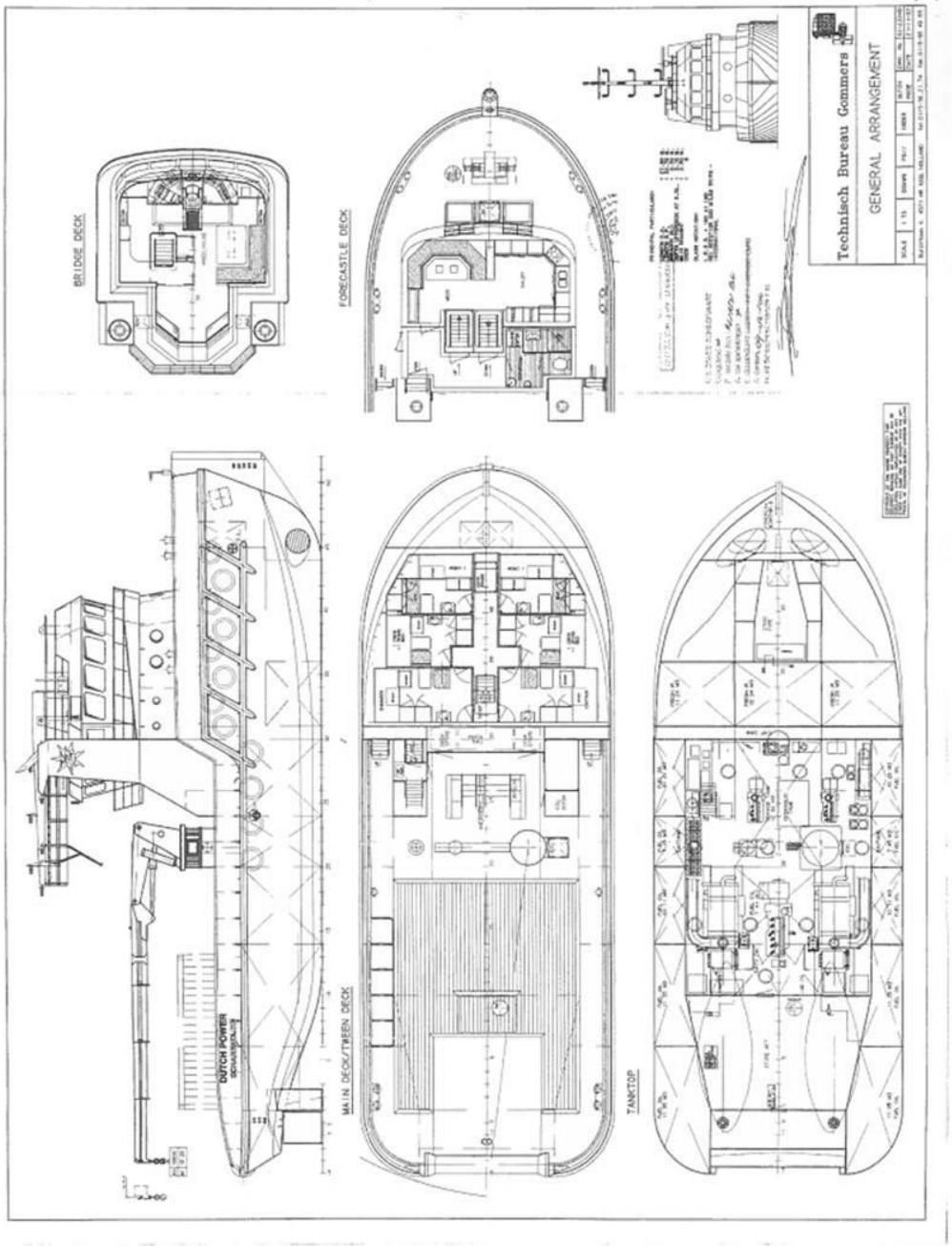
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FIREFIGHTING EQUIPMENT AND POLLUTION PREVENTION EQUIPMENT	
Fireman outfit	2
Portable fire extinguishers	9
Fire hoses and nozzles	4 fire hoses, 4 nozzle
Fire pump	DESMI K&R Pompen B.V
Emergency fire pump	HATZ-DIESEL 1B20 / 1B30
Fixed fire-fighting system	CO_2
Oil spill kit	1
LIFE-SAVING APPLIANCES	
Inflatable life raft	3 x 6 persons
Life buoy	6
Life jacket	10
Immersion suit	8
Recovery sling	Markus net 1.5 x 1.5 x10
ACCOMMODATION	
Number of persons for which LSA are provided	8
Number of crew for safe operation / passengers	7 / 1
One-bed cabin	4
Two-bed cabin	2
Mess room	1
Galley	1

TANK NAME	100% CAPACITY
Fuel tank№1	11,05 m^3
Fuel tank №2	11,05 m^3
Fuel tank №3	11,35 m^3
Fuel tank №4	11,35 m^3
Fuel tank №5	10,11 m^3
Fuel tank №6	10,11 m^3
Fuel tank №7	8,02 m^3
Fuel tank №8	8,02 m^3
Fuel tank №9	13,04 m^3
Fuel tank №10	10,91 m^3
Oily bilge water tank №11	7,52 m^3
PS FW tank	11,38 m^3
SBT FW tank	11,38 m^3
Central FW tank	15,34 m^3
Sewage tank	12,53 m^3
Lub Oil tank	1,9 m^3
Dirty Oil tank	1,9 m^3

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