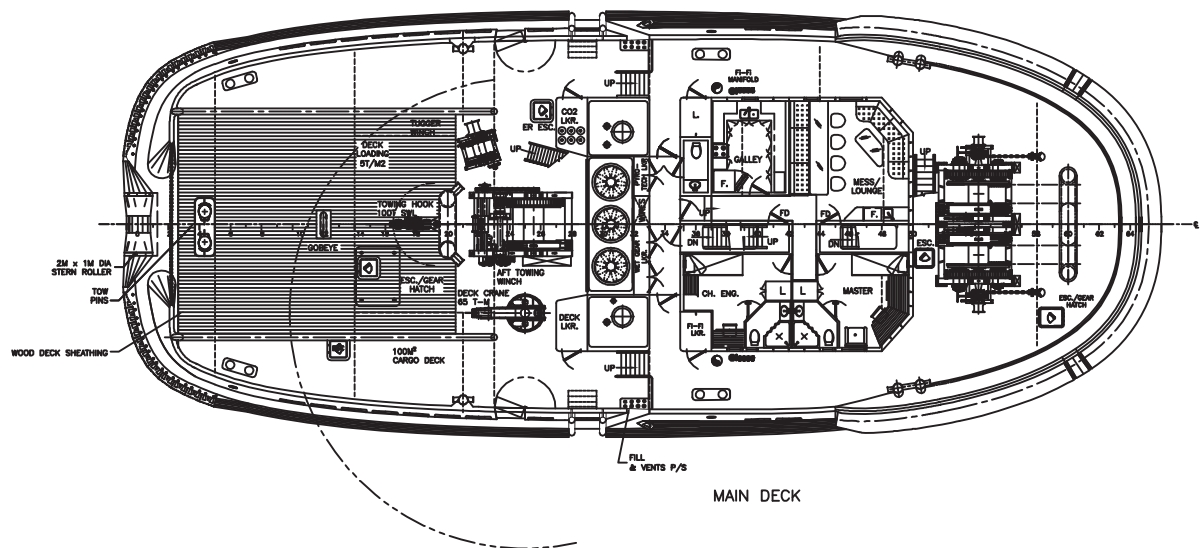
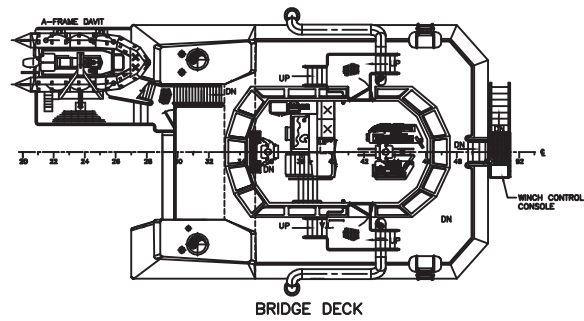
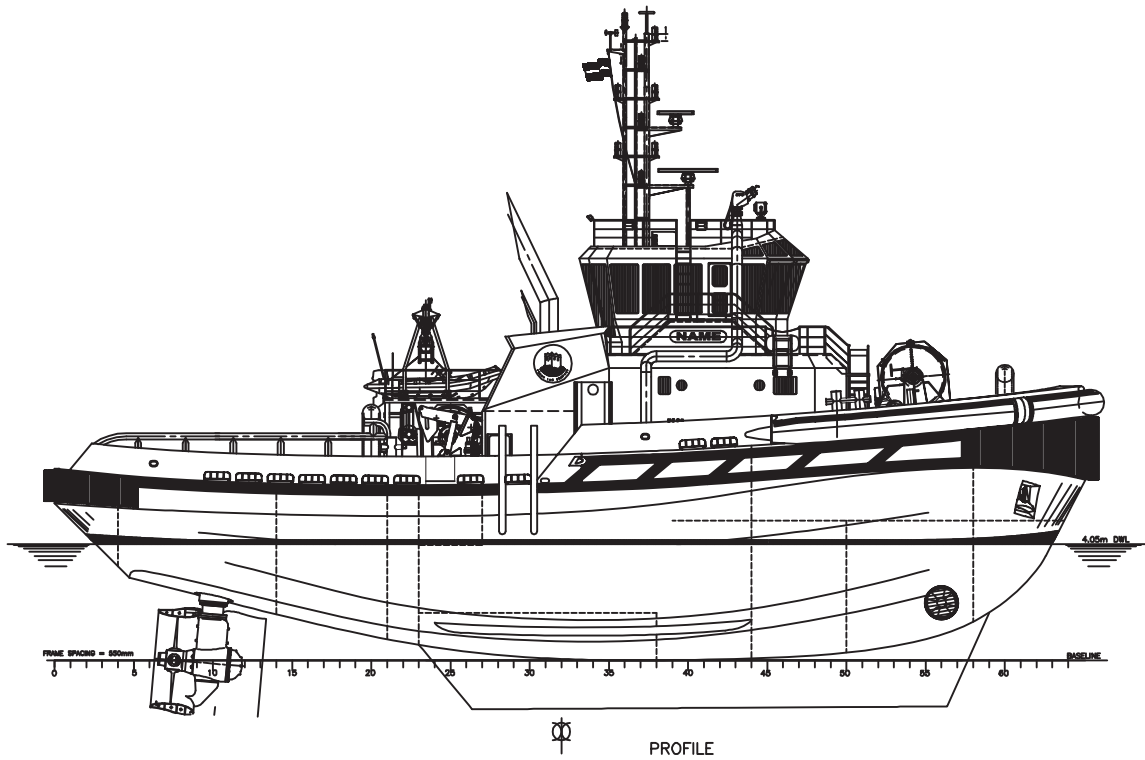


TUGBOATS

36 m x 95 TBP ROBERT ALLAN DESIGN



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MAIN PARTICULARS:

LENGTH OVERALL	35,80	m
LENGTH BP	33,67	m
BEAM	14,50	m
DEPTH	6,05	m
LIGHT DRAFT (Moulded)	4,05	m
LOADED DRAFT (Moulded)	6,30	m

SUMMER FREEBOARD

The vessel is suitable for operation in Unrestricted Service for:
Assist terminal operation, Handling, Escorting, Mooring,
FI-FI 1, waterspraying

CAPACITIES: (%98)

BALLAST	24,0	m3
FUEL OIL	236,4	m3
FRESH WATER	139,2	m3
LOOSE TANK(LUB. OIL/HYD. OIL)	4,2	m3
BLACK & GREY WATER	9,0	m3
SLUDGE	2,5	m3
ENGINE COOLANT	5,4	m3
FOAM	36,3	m3
OTHERS	10,5	m3

MACHINERY:

	Manuf./Type
MAIN ENGINES	2x WARTSILA 9L26
POWER	2x 3060Kw @ 1000rpm (MCR)
AZIMUTHING STERN DRIVE	2x LIPS LCT CS300-S/WN-K Kw
REDUCTION RATIO	4,592:1
PROPELLERS	Diam 3000mm CPP
AUX. GENERATORS	Main: 3 x SCANIA 315 kW, 394 KVA 400V 50Hz 3ph. Emergency: 1x SCANIA 160 kW, 200 KVA, 400V 50Hz 3ph.

FI-FI 1

	Manuf./Type	Capacities:
PUMP	2off FFS SFP250x350 - 1378	m3/h
GEARBOX	KUMERA FVIC-260-75FS	
WATER/FOAM MONITOR	2off FFS1200x300SB-1200/300	m3/h

DOCUMENTATION:

CLASS	Bureau Veritas
	I* HULL * MACHINERY SALVAGE TUG / ESCORT TUG / FIRE FIGHTING SHIP 1-Waterspraying Unrestricted Navigation Oil Recovery * AUT-UMS
FLAG	
RADIO CALL SIGN	TBA
IMO No.	TBA
DESIGN	Robert Allan Ltd.
Built Date	August 2008

TOWING, HANDLING & ESCORT:

	Manuf./Type	Capacities:
AFT TOW DOUBLE DRUM WINCH	PLIMSOLL PC-HTW/SD-80/150	
Capacity	750m Ø52mm	
Brake 1st layer	150 T	
TOWING HOOK	PC-PTH-100, SWL 100T SWL 65T	
CHAIN STOPPER	PC-KCS/24	
REEL WINDER	DRW 5E - 4T 10m/1' 350 m wire rope	
FWD TOW DRUM WINCH	PC-HEATW/GDDG-24-50/250ID	
Capacity	300m Ø64mm SWL 50T	
Brake 1st layer	250 T	

PERFORMANCE:

FREE RUNNING SPEED AHEAD	13.5 (average)	knots
FREE RUNNING SPEED ASTERN	Approx. 13.5	knots

TONNAGE (ITC):

GT	Over 500	Mt
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ACCOMMODATIONS:

	Cabins:	Berths:
MASTER	1	1
CHIEF ENGINEER	1	1
CREW	4	8
GALLEY	1	
MESS/LOUNGE	2	
LAUNDRY	1	
STORE	1	

Fully Airconditioned

total accomod: 10

ELECTRONICS & CONTROLS: Manuf / Type

PROPULSION CONTROL	Lipstronic t
DEPT ECHO SOUNDER	JRC,JFE 380
GPS / PLOTTER	JRC / LORENZ, NWZ 4570
RADARSx2	JRC - JMA 5310-6, 96 Nm
RADIO SYSTEM	JRC GMDSS, A1+A2+A3
INMARSAT SSAS	JRC, JUE 85
AUTO PILOT & GYRO	JRC, NT 991G CMZ 700S
MAGNETIC COMPASS	Lilley & Gillie, SCH 146
NAVTEX	JRC, NCR 333
VHF-DSC	JRC, JHS 770S
AIS, SART, EPIRB	JRC / JOTRON, JHS 182 / JOTRON
SPEED LOG	JRC DOPPLER, JLN 205

SPECIAL EQUIPMENT:

	Manuf./Type
ANCHOR & CHAIN	2x 600kg HHP - chain Ø26mm
KNUCKLE BOOM CRANE	8.0T @ 10,0m outreach
RESCUE BOAT	1x6 Pers. with outboard engine (inflatable)
RESCUE BOAT CRANE	SWL 1,5 T @ 4m
LIFERAFT	2x20 Pers.
TOW PIN	DATA HYDRAULIC DTP12SH
STERN ROLLER	DATA HYDRAULIC Ø1000mm x 2000 mm

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