



MANTA

GENERAL

TYPE	Damen STAN TUG 2909
BUILT	Damen Shipyards October 2005
CLASSIFICATION	Lloyd's Register 100 A1 Tug LMC UMS
IMO NUMBER	9186041
FLAG	Kingdom of The Netherlands / St
Martin	
CALL SIGN	PJM6041
GROSS TONNAGE	269
DEADWEIGHT	ton

DIMENSIONS

LENGTH O.A.	29.16 m
BEAM O.A.	8.84 m
DEPTH AT SIDES	4.40 m
DRAUGHT AFT	4.83 m
DISPLACEMENT	535 ton

TANK CAPACITIES

FUEL OIL	150.0 m ³
FRESH WATER	15.6 m ³
FOAM	5.3 m ³
LUBRICATING OIL	3.9 m ³
DIRTY OIL	3.1 m ³
SEWAGE	1.8 m ³
SLUDGE	1.2 m ³
BILGEWATER	1.6 m ³

PERFORMANCE

BOLLARD PULL AHEAD	65.2 ton
SPEED AHEAD	13.5 knots

PROPULSION SYSTEM

MAIN ENGINES	2 x Caterpillar 3516B TA HD / A
TOTAL POWER	3370 bkW (4520 bhp) at 1600 rpm
GEARBOXES	Reintjes WAF 872 7 455:1
PROPULSION	2 x Bronze Promarin fixed pitch propellers
NOZZLES	2x 2650 mm Van de Giessen with stainless steel inner ring
BOWTHRUSTER	HRP 620 mm / 99 kW hydraulically driven

ACCOMMODATION

For 8 persons, insulated and finished with durable modern linings, acoustical Dampa ceiling in the wheelhouse, Bolid floating floors and air conditioned. With 5 cabins, galley, mess/dayroom, switchboard room, dry store and sanitary facilities.

AUXILLIARY EQUIPMENT

GENERATOR SETS	2 x Caterpillar 3056T
CAPACITY	230/400 V, 105 kVA, 50 Hz
BILGE PUMPS	2 x SIHI AKHA 5101 each 20 m ³ /hr. at 14 m.w.g.
BILGE WATER SEPARATOR	Facet CPS 2.5B MK III, 0.5 m ³ /hr.
FUEL PUMPS	Sterling AKHA 4101 and AOHA 3101
SEWAGE TREATMENT	Haman Supermini
FRESH WATER PLANT	Aquamar electric AQE-6, 4.8 m ³ /day Double main engine driven pumps
TRANSFER FUEL	
OIL PUMP	SIHI AKHA 5101, 20 m ³ /hr. at 14 m.w.g.
FUEL OIL HEADER	
TANK PUMP	2 x SIHI AOHA 3101, 4.5 m ³ at 13 m.w.g.
FUEL OIL PURIFIER	Westfalia OTC 2.02.137 1150 ltr/hr
FIFI SET	Caterpillar 3306B TA 600 m ³ / hr. 10 bar
FIFI MONITORS	2 x manual operated 300 m ³ /hr each
AIR COMPRESSOR	2 x Atlas Copco LT 70-3KE

DECK LAY OUT

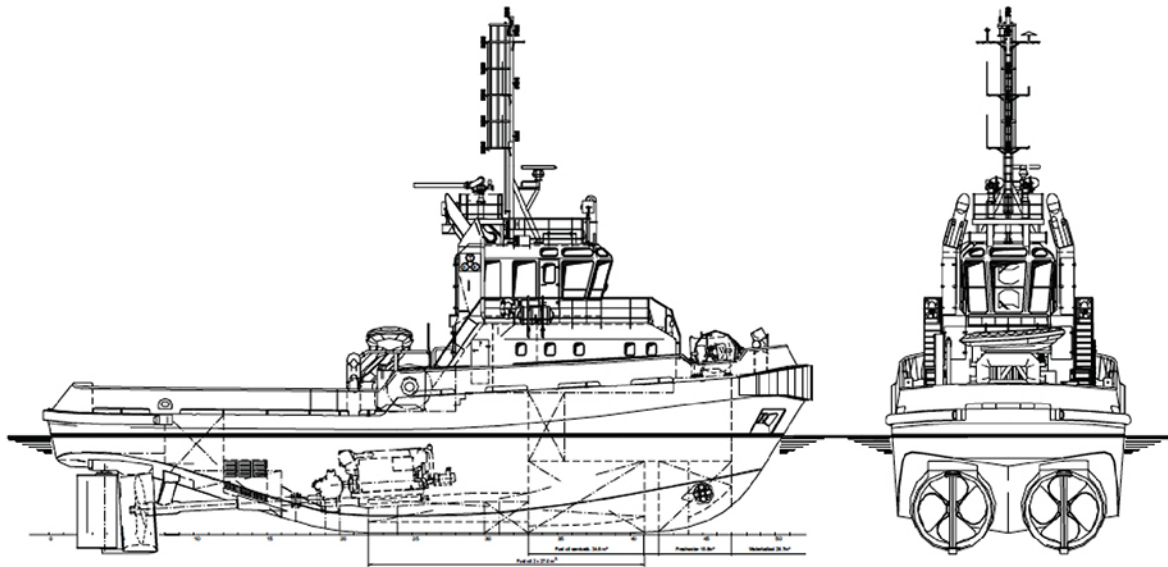
ANCHORS	2 x 360 kg Pool (high holding power) 24 mm U2
ANCHOR/TOWING EQUIPMENT	hydraulically driven. Ridderinkhof, 10 ton at 11 m/min, 100 ton break.
CAPSTAN	5 ton at 15m/min. Ridderinkhof
CRANE	Heila HLM 25-3SL, 2.8 ton at 8.45 m
TOWING HOOK AFT	Mampaey 66.3 ton SWL
TOWING WINCH AFT	Hydraulically driven, Split drum 18 ton art 11 m/min 107 ton break.
WORK BOAT	Narwhal

NAUTICAL AND COMMUNICATION EQUIPMENT

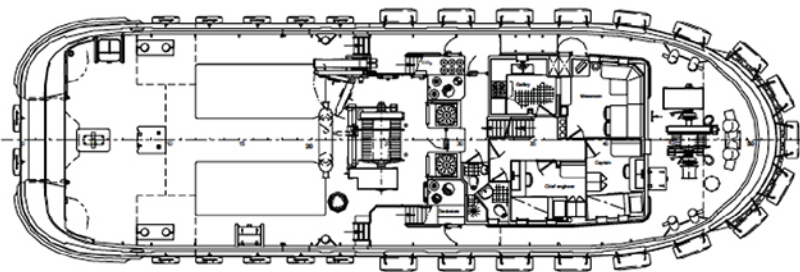
RADAR SYSTEM	Furuno FR-7062
COMPASS / AUTO PILOT	Magnetic Kotter / Simrad AP-50
GPS	Furuno GP-90
ECHO SOUNDER	Furuno LS-6100
VHF RADIO TELEPHONE	2 x Sailor RT4822 with DSC
NAVTEX	Furuno NX-500
AIS	Furuno FA-100
SSB	Furuno FS-1570
INMARSAT	2 x Furuno Felcom 15
SEARCH LIGHT	2 x Seematz

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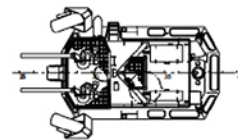
Damen STAN Tug 2909



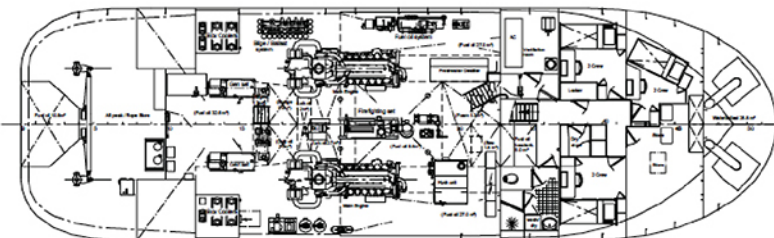
Maindeck



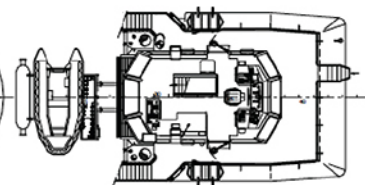
Topdeck



Below Maindeck



Bridgedeck



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