



# ASD Hinaaja ISAC

SPEKIFICATION AND CLASSIFICATION





## Ship Particulars

### IDENTIFICATION

Name; ISAC c/s: OJSZ  
 Ship Type: ASD Tug Boat Flag: Finland  
 IMO number: 91872265

### CLASSIFICATION

DNV : +Hull +Mach, Tug Unrestricted Navigation

### HULL

Gross Tonnage 69:	353	Builder:	Damen
Net Tonnage:	105	Date of build:	01 Jan 1998
Deadweight	240 ton	Hull material:	Steel
Overall length:	30,6 m	Hull info:	1 continuous deck
LPP:	27,44 m	Survey type:	Normal (Hull)
Breadth:	10,6 m		
Depth:	5,32 m		
Draught:	5,01 m		
Freeboard:	458 mm		

### MACHINERY

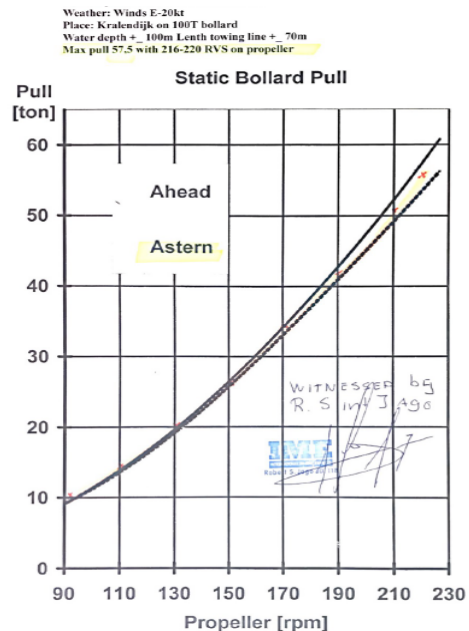
Main engines: 2 x Wartsila 6L26  
 Total power: 2999/3660 kW  
 Propulsion; 2 x fixed pitch ASD propeller (Aquamaster 3001)

### PERFORMANCE

Bollar pull (ahead): 62 t @ 3660 kW  
 Bollar pull (astern): 56 T @ 3660 kW  
 Speed (maximum): 13 kt  
 Speed (economic): 9 kt

### TANK CAPACITIES

Fuel oil: 102 m3  
 Portable water: 40 m3  
 Foam: 13 m3





## T/B ISAC SPESIFICATION

### GENERATOR SET

Caterpillar Generator Set (2 pc)                      KVA 131/105Kw/0.8 COS /Hz60  
Volts 440/ Amps 172/ Rpm 1800

### ACCOMODATIONS

Accommodations air conditioned for 8 pers

### DECK EQUIPMENT

Fore winch     Hydraulic  
Double drum, 150 T brake load @ 1<sup>st</sup> layer  
Line pull 8 T @ 35 m/min at 1<sup>st</sup> layer  
Line pull 30 T @ 12 m/min at 1<sup>st</sup> layer

Aft winch        Hydraulic  
Single drum, 150 T brake load @ 1<sup>st</sup> layer  
Line pull 20 T @ 19 m/min at 1<sup>st</sup> layer  
Line pull 60 T @ 8 m/min at 1<sup>st</sup> layer  
Steel wire dia 52 mm 600 m, breaking strength 197 T

Aux towing gears  
Emergency towing rope dia 72 mm, 55 m, breaking strength 89 T  
Shackles 55 T, 32 T and 25 T

### NAVIGATIONAL EQUIPMENT

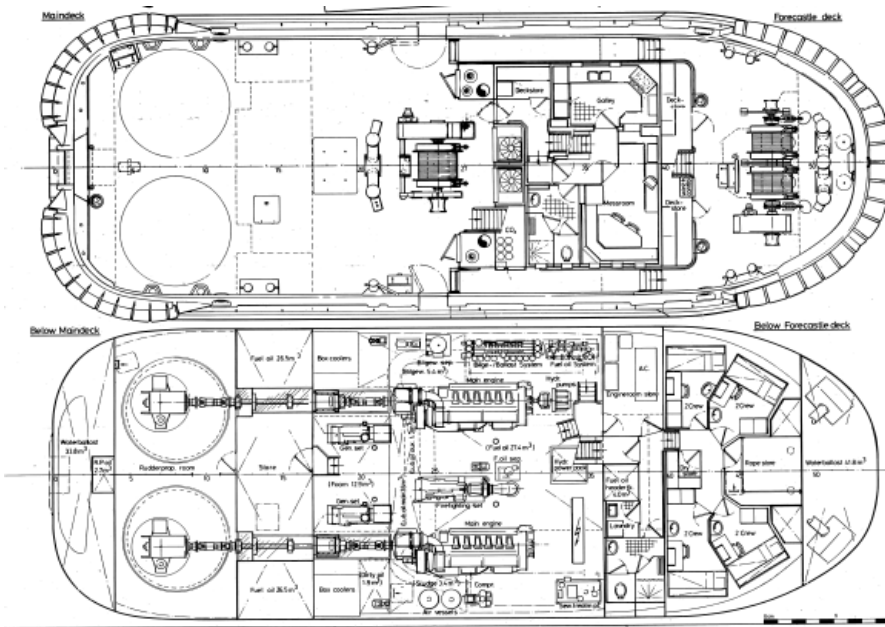
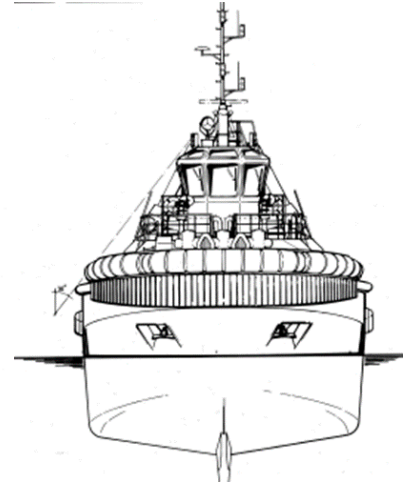
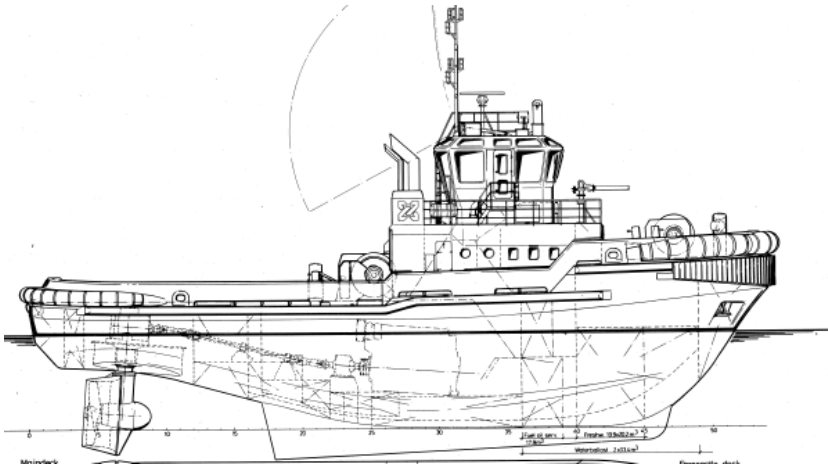
Magnetic compass	Kelvin Hughes Observators
Echo sounder	Furuno FCV 612
VHF	FM-8800 S
MF/HF	FS-1570 T

Radar	Furuno
GPS	Furuno
Navtex	Furuno
Satellite compass	Furuno THD
Inmarsat C	JRC NDZ-127C1
BNWAS	Furuno BR-500
AIS	JHS-182

### OTHER EQUIPMENT

Capacity of Fire Fighting monitors	2x 300 m <sup>3</sup> /h <sup>r</sup>
Water spray	

TUG ARRANGEMENT



**Damen ASD Tug 3111**



Principal dimensions:  
 Length o.a. 30.60m  
 Beam o.a. 11.20m  
 Depth at sides (at half length) 5.00m  
 Draught aft (approx.) 5.10m

<p>General arrangement</p>	
No. 12-11-01 Date: 11-01-01 Rev: 01	Scale: 1:50 Date: 11-01-01 No. 12-11-01