



NOVUS DESTINE I
TUG BOAT

TECHNICAL SPECIFICATIONS

<u>Item</u>	<u>Specification</u>	<u>Item</u>	<u>Specification</u>
1 VESSEL NAME	NOVUS DESTINE I	12 CAPACITY	
2 VESSEL TYPE	Tug Boat	Deck Cargo	
3 CLASSIFICATION	Philippine Registry of Shipping (PRS)	Deck Space	40 m3
4 PORT/REGISTRY	Manila	Free Deck Space	
5 FLAGS	Philippines	Fuel Oil	39.5 m3
6 YEAR BUILT	1987.12.01	Fresh Water	36.7 m3
7 HORSE POWER	3,200 PS / 3,155 BHP	Ballast tank	35.5 m3
8 OWNER	SEABIRD SHIP MANAGEMENT, INC	13 ANCHOR / WINDCLASS	6 shackles Port & Stbd
9 PERFORMANCE		Type	Plunger pump (A7V 80 LVIR PF 0033)
Maximum Speed (Economical)	*12.5 Knots	Capacity	200 Kg/cm2 x 19 kw
Endurance	** 6 Knots	14 GENERATORS	
	*7 days /**14days	Diesel Generator Engine	
10 FUEL CONSUMPTION		Type	Vertical,Single Acting,Direct Injection
Full Speed	6,816 liters/day	Model	D2156HM
Gen Set	384 liters/day	No.of Sets	2 Sets
11 MAIN CHARACTERISTICS		Output	167 PS x 1800 RPM
Length O.A.	32.17 M	Piston Stroke	150 MM
Breadth Moulded	8.80 M	Cylinder Bore	121 MM
Depth Moulded	3.60 M	Maker	Daewoo Heavy Industries Co.,LTD
Minimum Draft	2.90 M	Generator	
GRT/NRT	145 Ton	Type	Self- Exciting Brushless type
Full Displacement	436.14 Ton	No. of Sets	2 Sets
Dead Weight	320.51 Ton	Output	130 KVA
Light Weight	115.63 Ton	Voltage	AC225 V
Bollard Pull (Max)	41.80 Ton	Power of Factor	80%
Bollard Pull (at	39.40 Ton	Maker	Daewoo Heavy industries Co., LTD
		15 PROPULSION/ MACHINERY	
		a) Main Engines	
		Type	Vertical, Single Acting,4-Cycle, Trunk piston type with turbo – charger and

Model	SSANG YONG- S.E.M.T PIELSTIC 6PA5L			
No. of sets	2 Sets		18 ACCOMMODATION	
Output	1475 PS x 850 RPM (1600PS x900RPM)	a)	Bunk	8 pcs
Piston Stroke	270 MM	b)	Washroom	2 units
Cylinder Bore	255 MM			
Maker	SSANGYONG HEAVY		19 FIRE FIGHTING	
		a)	Portable Fire Extinguisher	5 pcs x 9 liters Dry Powder
b) Reduction Gear Ratio	2.965			2 pcs x 4.5 liters CO2
c) Propeller RPM	287 rpm (304 rpm)	b)	Fixed Fire Extinguisher	
d) Aquamaster Equipment		c)	Fire Detection System	Heat Smoke Detector
Construction	Propeller equipment with two paires of right- angle gear wheels,kort nozzle and mounting base		20 LIFE SAVING	
		a)	Liferaft	1 unit x 16 persons
			21 FIRE FIGHTING PUMP	
Model	US1401/2700		Type	2 Stage
No. of Sets	2 Sets			Turbine Type
Input	1475 PS x 850 RPM (1600			Engine Driven
			Capacity	120 m3/Hr
1)Propeller	4- blades, Modified Kaplan type			X 80 m
Diameter	2000 MM		22 GS FIRE PUMP	
Pitch	1914 MM		Type	Horizontal, Centrifugal type
Material	Manganese Bronze		Capacity	65 m3 /Hr
2)Steering				X 20M X 7.5 kw
Operating System	HYD. System		23 BILGE PUMP	
Main Steering Pump	2 Pcs/Unit (Mechanically Driven)		Type	Horizontal, Centrifugal type
Aux. Pump	1Pc/Unit, Electric motor driven (12KW)		Capacity	15 m3/Hr
	Auto Manual Operation			X 14 M X 3.7 kw
Turning Angle	360 Deg.		24 F.O. TRANS PUMP	
Turning speed	Max.10 Sec/180 deg. (at normal RPM)		Type	Horizontal, Gear type
			Capacity	3 m3/Hr
				X2 kg/ CM2 X 1.5 kw
	16 NAVIGATION & COMMUNICATION EQUIPMENT		25 PORTABLE GENERATOR/KETE ALTERNATOR	
a) Marine VHF x 2	Samyung STR-600B SailorCompactVHFRT2047		Model	GT190B-140
b) GPS	Samyung N100		Power	6.5 kw
c) Echo Sounder			Voltage/freq.	220 v
d) Radar	Anritsu R12692F		26 PORTABLE FIRE PUMP	
e) Compass	Sam Yang Me Co. Ltd.		Model	Honda WB20XT
f) Public Address			27 OTHER EQUIPMENT	
g) EPIRB	Samyung GPS EPIRB	a)	Forward Deck Flood Light	1 x 300 watts
h) AIS	Samyang 501	b)	Aft Deck Flood Light	1 x 300 watts
	17 DECK PIPING CONNECTION	c)	Search Light	1 x 1,000 watts
a) Portable Water	3 in			
b) Fuel Oil	4 in			

All data stated herein have complied with all possible care. However, no guarantee is given of the correctness hereof.