OIL RECOVERY TUG FIRE-FIGHTING - SUPPLY VESSEL



B.V. \*HULL \*MACH

FIRE FIGHTING

foam monitor 300 m3 / hr

FiFi, class I + II

Oil recovery Tug Fire-fighting 12 - Supply Vessel Unrestricted navigation DYNAPOS AM/AT R, SDS

## **CLASSIFICATION SOCIETY:**



Yard: Ulstein Yard / Norway Flag: Panama **Delivered:** 1985 IMO: NO.8406482 Call Sign: **HPGH** 

L.O.A.: 83,45 m Lpp: 73.85 m 18.00 m **Breadth Moulded:** Draft mld: 7.95 m 5.55 m **Draft summer:** Freeboard summer: 2.40 m GRT: 3385 NR: 1015

Deadweight: 2.500 tonnes Light ship weight: 3,032 tonnes **Displacement:** 5,532 tonnes

DISCHADGE DATES

## **Propulsion**

4 x Wichmann Diesel type AXAG each 4,500 BHP at 475 r.p.m. 2 main gear boxes, Lohmann & Stolterfoht 2 c.p. propellers 3,900 mm dia. running in nozzels

#### **Auxilleries**

2 Caterpillar Diesel, each 675 BHP at 1,800 r.p.m.

2 Siemens generators, each 625 kVA

1 Caterpillar Diesel 137 BHP at 1,800 r.p.m. driving

1 Siemens generator 102 kVA

4 Siemens shaft generators, each 3,380 kVA at 1,800 r.p.m.

2 Atlas Copco compressors, each 22 m³/ min

#### **Side thrusters**

2 el. driven bow thrusters, each 1,500 BHP 2 el. driven stern thrusters, each 1,200 BHP

#### **Bollard Pull**

170 tonnes continuous bollard pull Joystick control

#### TANK CADACITY (dedicated tanks)

Monitors are gyro stabilized and operated from bridge Oil recovery - Complies with NOFO 87 requirements

3 water monitors total 7.200 m3 / hr + 1

Throw length at 40° elevation 210 m

Throw height at 60° elevation 120 m

Tanks for recovered oil ca. 1.000 m<sup>3</sup>

IANK CAPACITY (dedicated taliks)		DISCHARGE RATES
Fuel, ships use:	486 m³	for vessel's consumption only
Fuel, cargo:	798 m³	abt. 250 m³/hr against 90 m
Special products (2		
tanks) (brine/base oil):	$767 \text{ m}^3$	abt. 150 m <sup>3</sup> / hr
Methanol:	211 m <sup>3</sup>	abt. 150 m <sup>3</sup> / hr
Fresh water:	527 m <sup>3</sup>	abt. 150 m <sup>3</sup> / hr against 90 m
Drill water:	932 m <sup>3</sup>	abt. 150 m <sup>3</sup> / hr against 90 m
Dry bulk (4 tanks):	205 m <sup>3</sup>	abt. 50 / 80 t / hr against 60 m
Rig chain lockers:	245 m3	
Capacity rig chain:	76 mm	abt. 3,600 m
	92 mm	abt. 2,600 m
	102 mm	abt. 2,100 m
	111 mm	abt. 1,400 m

#### CARGO DECK

Length 30,85 + 11,15:	42,00 m
Breadth:	10,0 / 15,5 m
Deck space:	589,5 m <sup>2</sup>
Max deck cargo:	1,000 tonnes
Deck strength per m <sup>2</sup>	5 tonnes
Height of cargo rail:	2,775 / 1,565 mm

## ACCOMODATION

7 single cabins for officers Hospital with 10 bunks 5 single cabins for crew All cabins with shower and toilet 10 double cabins for passengers

# **Equipment, nav & comms**

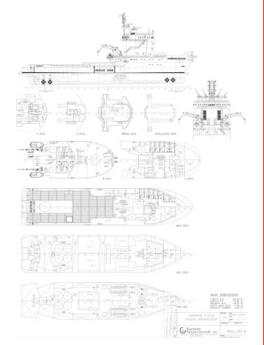
## **VESSEL TYPE**

This multifunction Safety Service Vessel has two independent engine rooms (starboard and portside), enabling her to proceed at half power in case of a major accident, such as fire, explosion, collision etc.

Each side thruster and steering gear with accessories are placed in separate watertight compartments. Two separate control rooms / panels can be operated either split or synchronised (normal mode). Propulsion with control systems have been arranged in such a manner that one single fault can only cause loss of power to one propeller / rudder.

#### The following functions are included:

- Standby rescue
- Fire fighting
- Oil recovery storage capabilities
- Inspection and maintenance of underwater loading systems
- Underwater inspections (ROV)
- Anchorhandling and towing
- Buffer storage of consumables
- Supply services incl. carrige of brine and low flashpoint liquids
- Emergency preparedness



## DECK EQUIPMENT / INSTALLATIONS

#### Anchorhandling / towing winch

1 Hydraulic make double drum waterfall AH / towing winch max, pull

300 tonnes, brake 430 tonnes.

Towing drum cap.:

1200 m 74 mm dia. wire

AH drum cap.: 1200 m 74 mm dia. wire Both drums are disengageable, i.e. can be operated simultaneously

or individually. Dynamic / static tension indicator for both drums. Towing

drum also fitted with hydraulic brake and automatic tension compensator.

Wildcats for 3" chain.

#### Extra pennant winch

1 double drum Hydraulic make

Capacities: 1,000 m and 1,500 m of 72 mm dia. wire each

#### **Tuggers winches**

2 Hydraulic make, 10 tonnes max. pull, with tension control

#### **Capstans**

3 Hydraulic make (1 forw., 2 aft.) 10 tonnes pull each Anchor windlass and anchors

1 Hydraulic make, 22 tonnes anchor winch

2 x 750 m special chain cable, 46 mm dia.

2 anchors type Spek, 3,060 kos. each

#### Deck cranes

1 Hydralift make (stb.) Knuckle Jib- crane 5 t / 12 m 1 Hydralift make (port) Knuckle Jib- crane 5 t / 12 m  $\,$ 

#### Towing pins

2 Ulstein make with safety locks, hydraulically operated from bridge

Anchorhandling tongs

2 Ulstein make (440 tonnes each) hydraulically operated from bridge

or panels on aft deck

Hose handling equipment on forcast deck

- 1 A-Frame SWL 100 tonnes
- 104 tonnes on 1st layer, 0-6 m / min
- 1 Double drum hydraulic winch

#### Stern roller

Ulstein make, 450 tonnes, length 6,000 mm. dia 3,000 mm

Chain chaser type BEL 101 Grapnel type BEL 109

## **COMMUNICATION EQUIPMENT**

- FURUNO HF and MF main station w/Telex DSC
- 1 Navtex receiver 2 Skanty
- 1 Phonico Intercomm. Systems
- 1 VHF Aermobil FSG 60 m
- 1 Sailor Hospital Communication Systems
- 1 UNI-SAFE ELECTR. watch keeping receiver
- 1 UNI-SAFE ELECTR. sel call receiver
- 3 Skanti portable lifeboat radios
- 2 Epirb Jotron Tron 30S
- 3 GMDSS waterproof VHF-Sets
- 1 VHF Sailor R 2022 located in radiostation
- 3 VHF Station Sailor RT 146 on bridge w/slave station each bridge wing
- 6 Portable VHF sets for use on deck and in FRC's
- 6 Portable UHF-sets for on board use

## **NAVIGATION EQUIPMENT**

- 1 x Radar, Furuno FAR 2030 S, S-Band with Arpa
- 1 x Radar, Furuno FRC-1411, X-Band with ARPA
- 1 x Radar, Furuno GD 2000 Video plotter w/interswitch
- 1 Furuno FD 525 VHF D/F
- 1 GPS Receiver Furuno GP 90
- 3 Anchuts gyro compass STD 22
- 1 Sperry MK 37 gyro compass
- 1 Autopilot Robertson MkO
- 1 Furuno Echo sounder FE 700
- 1 Ben Doppler log

## DYNAMIC POSITIONING SYSTEM

- Kongsberg Simrad SDP21
- 2 DGPS / Spot beam/ IALA/SBAS
- Hipap 350
- 3 Anchuts Gyro
- 1 Fanbeam
- · Light weight tautwire in moonpool
- Artemis MK 4

## LIFE BOATS AND MAN-OVER BOARD BOATS

1 powered MOB / lifeboat type Springer **RESCUE BASKETS** 

2 Bennex BRB 2500 MK 4

1 Dacon rescue scoop

## **INFLATABLE LIFE RAFTS**

4x20 persons each + 2x12 persons each Otherwise fully fitted in accordance with NMD requirements for tug / supply / rescue vessels

#### **ROV GARAGES**

One permanent ROV garage for Work Rov
One permanent ROV garage for Observation Rov