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# GSP ALTAIR

## VS 483 - Platform Supply Vessel

## CLASSIFICATION

A1, Offshore Vessel, AMS, ACCU, DPS-2
Class Number 98282979
Builder KVAERNER GOVAN LTD
IMO Number 9169744

## DIMENSIONS

| | |
|---|---|
| L.O.A. (m) | 82.88 |
| BREADTH mld (m) | 19.00 |
| DRAUGHT (summer) (m) | 6.333 |
| DEADWEIGHT (summer) (t) | 4.689 |
| GROSS/NET TONNAGE | 2.990/1.573 |
| GENERATORS | 440 /3 /60 |

## PROPULSION & PERFORMANCE

Service speed abt. 10-12 knots

### PROPULSION

Two Wartsila Vaasa 6R32E marine diesel engines each developing 3,300 BHP@ 750 rpm each driving 1.760 kW shaft alternator and CP propeller

| | |
|---|---|
| Total developed power | 4,920 kW (6,600 BHP) |
| **GENERATORS** | 440 / 3 /60 |
| Shaft alternators | 2 X 1,760 kW |
| Main alternators | 2 X 335 kW |
| Emergency alternator | 1 X 167 kW |
| **THRUSTERS** | |
| Forward tunnels | 2 X 736 kW |
| Aft tunnels | 2 X 736 kW |
| STABILIZATION | Two passive roll reduction stabilization tanks |

## DP2 SYSTEM

| | |
|---|---|
| DP / Joystick Control | IMO Class 2 DP System<br>Kongsberg K-Pos DP-21 |
| Reference systems | Fan beam laser+ 2 x DGPS |

## DECK MACHINERY

| | |
|---|---|
| Deck/stores crane | 3 tonnes @ 12m radius |
| Tuggers | 2 X 10t |
| Capstans | 2 X 10t |

## ACCOMODATION

Wheelhouse and accommodation fully air conditioned

| | |
|---|---|
| Single berth cabins | 2 suites+ 9 en-suite |
| Two berth cabins | 6 cabins |
| Hospital | 2 berth |
| Complement | 27 persons |

## CARGO

### CARGO DECK

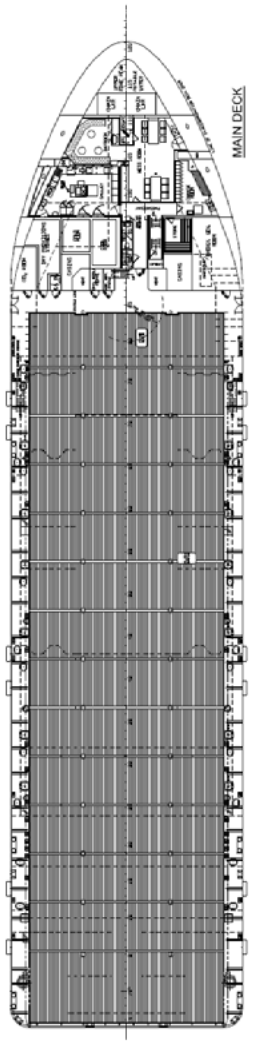
| | |
|---|---|
| Sheathed deck area | 58.5 m x 16.0 m =936m$^2$ |
| Deck strength | 5 tonnes / m$^2$ |
| Deck load | 3,000 tonnes |

### CARGO CAPACITIES

| | Approx at 100% |
|---|---|
| Fuel oil cargo | 1,138 m$^3$ |
| Potable water | 1,010 m$^3$ |
| Drill water | 1,056 m$^3$ |
| Dry bulk@ 80 psi | 8 X 50m$^3$ = 400 m$^3$ (14,400 fe) |
| Liquid mud@ 2.5 sg | 2 x 165 m$^3$ (2.080 bbls) |
| Liquid mud@ 2.5 sg | 2 x 141m$^3$ (1,774 bbls) |
| Brine @2.5 sg | 2 x 159 m$^3$ (2.000 bbls) |
| Brine @ 2.5 sg / Base oil | 2 x 191 m$^3$ (2.400 bbls) |
| Base oil | 2 x 100 m$^3$ (1.255 bbls) |
| Ships fuel oil | 323 m$^3$ (MDO) |

### CARGO PUMPING

| | |
|---|---|
| Fuel oil cargo | 2 x 150 m$^3$/hr @ 9 bar |
| Potable water | 1 x 150 m$^3$/hr @ 9 bar |
| Drill water | 1 x 150 m$^3$/hr @ 9 bar |
| Dry bulk compressors | 2 x 30 m$^3$/hr @ 80 psi |
| Liquid mud | 2 x 100 m$^3$/hr @ 23 bar |
| Brine | 2 x 100 m$^3$/hr @ 23 bar |
| Base oil | 1 x 100 m$^3$/hr @ 9 bar |



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# Specifications

**The vessel is designed to fulfil the following duties:**

- Supply and transport of equipment between offshore platforms and installations (such as brine, cargo containers, cement, drill water, fresh water, fuel oil, liquid mud, methanol, pipes etc)

## CONTROL AND NAUTICAL EQUIPMENT

| | |
|---|---|
| DP system | DP II |
| Thr. control | R-R |
| AIS | 1 of |
| **Radar Equipment** | |
| 1 of | 3 GHz ARPA |
| 1 of | 9 GHz ARPA |
| **Chart System:** | |
| Telechart Ecdis | 1 of |
| **Compass System:** | |
| Gyrocompass | 3 of |
| Magnetic compass | 1 of |
| Autopilot | 1 of |
| Nav. echosounder | 1 of |
| Speed log | 1 of |
| Radio Plant: Acc. to class | |
| VHF/DSC | 1 of |
| VHF | 1 of |
| Inmarsat C | 1 of |
| Iridium | 1 of |
| Automatic ident. system | 1 of |
| Beacon equipm. acc to class | |

## DECK EQUIPMENT

| | |
|---|---|
| Cranes: | 1 crane SWL 3t x 12 ml |
| Anchors: | 2 x 4.13t SPEK Anchors |
| Mooring Winch: | 2 x Rope/Wire Winches |
| Mooring Capstan: | 2 x Capstan Aft |
| Tugger Winches: | 2x10t |

## ANTI-ROLLING SYSTEM

A passive flume anti-roll system
2 of roll reduction tank

## LIFE SAVING EQUIPMENT

Liferafts: 7 for 155 pers
Survival suits: 54
1 rescue boat for 6 pers. Capacity
SOLAS for 50 pers.

## CARGO-TANK CAPACITIES/PUMPS

| | |
|---|---|
| Diesel fuel (ship) | 323 $m^3$ |
| Fuel oil (cargo) | 1,130 $m^3$ |
| Potable water (ship) | 100 $m^3$ |
| Potable water (cargo) | 910 $m^3$ |
| Water ballast | 1056 $m^3$ |
| Liquid muds/brines | 2x165 $m^3$ + 2 x 141$m^3$ |
| Base oil (in cargo fuel tanks) | 2x100 $m^3$ |
| Dry bulk | 400 $m^3$ |
| Slop tanks | 2 x 20 $m^3$ |

## PUMPING CAPACITIES

| | |
|---|---|
| Fuel | 2 x 150 m3/hr |
| Pot water | 1 x 150 m3/hr |
| Brine | 2 x 100 m3/hr |
| Mud | 1 x 100 m3/hr |

## TANK CLEANING SYSTEM

A total of 6 cleaning machines fixed in 6 mud tanks/brine tanks and 1 slop tank

## FLOW METERS

Flow meter for fuel oil with printer.

## RESCUE BOAT

1 x ZODIAC RIB x 6 man

## LOADING COMPUTER

Kockums Sonics Loadmaster

## CONSUMPTION

| | |
|---|---|
| Economic transit, app. | 10t/day |
| DP operations | 2–4t/day |
| Port, approx. | 0.8t/day |

## HOSPITAL

1 hospital: 2 BEDS