

## 5,800 m<sup>3</sup> LPG Carrier

### G Dancer



#### Ship Basic Information

Builders	Appledore Shipbuilders Ltd., UK
Type	LPG Carrier, semi-refrigerated
Flag	Antigua & Barbuda
Port of registry	St. John's

#### Vessel Specific Information

	IMO No.	Delivery	Summer DWT (mt)	Lightweight (mt)
G Dancer	9130456	Jul-96	4,663.00	2,962.00

#### Dimension and Main Data

Length o. a.	114.62m
Length b.p.	104.00 m
Breadth max.	15.70 m
Depth moulded	8.70 m
Distance keel - top antenna	32.80 m
Mean draft in sea water on sfb	6.30 m
Speed loaded with LPG (max. bft 2)	13.5 kn
Bowthruster	Berg SP5 – 340 KW
GT	4,924 t
NT	1,477 t

#### Tank Capacity

IFO 380 / VLSFO	378.6 m <sup>3</sup> (100%)
MGO	280.3 m <sup>3</sup> (100%)
Fresh water	163.3 m <sup>3</sup>
Water ballast	2,022.0 m <sup>3</sup>

#### Cargo Capacity

Tank	Volume 100%	Volume 98%
1	2,814.690 m <sup>3</sup>	2,758.396 m <sup>3</sup>
2	2,986.110 m <sup>3</sup>	2,926.388 m <sup>3</sup>
Total	5,800.800 m <sup>3</sup>	5,684.784 m <sup>3</sup>

#### Liquefied Gases for Type II PG Carrier

Ammonia, anhydrous	Ethyl chloride	Propane
Butadiene	Ethylene oxide	Propylene
Butane	Isoprene	Propylene oxide
Butane-propane mixtures	Methyl chloride	Vinyl chloride
Butylenes	Mono ethylamin	Isopropylamine

#### Cargo Tanks Characteristics

Number of Tanks	2
Type of Tanks	Cyl. independent Type C
Construction Material	5% Nickel Steel
Min. allowable temperature	-48°C
Max. allowable relief valve setting	7.5 bar gauge
Max. vacuum	-0.1 Bar
Max. rate of cool down	10°C/hour
Max. cargo specific density	0.97

Cargo Pumps		
Pumps	Deepwell	Booster
Number	2	1
Maker	Desmi	Desmi
Model	Deswell 200 2 1	Desboost 150 HDR
Max. density kg/m <sup>3</sup>	0.97	0.68
Capacity m <sup>3</sup> /h nominal	360	360
At Delivery Head mlc	120 m liquid column	120 m liquid column
Location	Tank top	Compressor room
Speed RPM	1,780	3,550
Driven by	El. motor	El. motor

Cargo Compressors	
Type	Piston type/2 stage
Number	2 - capacity 1068 m3/hour each
Maker	SULZER
Model	K160-2H
Oil free	Yes

Hose Handling Cranes	
Number of Cranes	2
Capacity	2,000 kg each

Machinery	Main engine
Type	MAK 9M 32
Power	3960 Kw
Auxillary engine	
Number	3
Type	Cummings KTA19G4
Power	597 kW each
Grade fuel used	MGO

Fuel consumption per day at full speed at LPG-Draft (Bft 2)	
At sea	about 14.5 mt MGO (Eco Speed about 10.5 mt)
At sea with cargo cooling	about 13.5 mt HFO (Eco Speed about 9.5 mt)
In port, loading LPG	about 3.6 mt MGO
In port discharging	about 3.0 mt MGO
Boiler at sea	about 0.7 mt