

Pressurized LPG Shipping – Continued strength in one of Shipping's healthiest segments

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Executive summary

- What is LPG, where does it come from, what is it used for, and how is it transported?
- What is a pressurized vessel?
- Pressurized rates firming
- Pressurized trading in Asia compared to other parts of the world
- Petrochemical gasses employing a large part of the press fleet
- LPG fleet profile
- Minimal orderbook
- Newbuilding prices
- Pressurized market forecast
- StealthGas Inc.





LPG (LIQUID PETROLEUM GAS)

Product	Derived from	End Products
Propane / Butane / Ethane	Natural Gas Production Crude Oil Refining	Cars & Buses Other Vehicles Cooking, Heating Petrochemical Feedstock
Ethylene	Cracking Petroleum Feedstocks	Car Components Plastics Antifreeze
Propylene -> Polypropylene	Gasoline and Ethylene	Car Components Plastic Pipes Carpet Styrofoam
VCM (Vinyl Chloride Monomer) → PVC	Ethylene and Chloride Cracking	Pipes Homebuilding Wires Systems
Butadiene	Ethylene Cracking	Synthetic Rubber Tires Homebuilding
Ammonia	Natural Gas Production	Fertilizers Agriculture

Type of Gas Carriers and Products

Vessel type	Size cbm	Туре	Pressure	Freight
Qmax	255 - 265k	SSD/Reliquefaction	0.25 bar	LNG
Qflex	200 - 230k	SSD/DFDE	0.25 bar	LNG
Standard LNG	125 - 165k	DFDE/ST	0.25 bar	LNG
Small – Med Max	1 - 75k	DFDE/ST	0.25 bar	LNG
NF@C	60 - 85k	Fully Refrigerated	0.5 bar	LPG,CPP
rec	50 - 60k	Fully Refrigerated	0.5 bar	LPG, NH3, CPP
MGC	18 - 42k	Fully Refrigerated	0.5 bar	LPG
Small	2 - 23k	Semi Refrigerated Ethylene	7.5 bar	LPG NH3 Petro- chemicals
		Fully pressurized	18 bar	

What is a pressurized vessel?

- Can handle pressure up to 18 kg/cm3(bar)
- 0 45 deg Celsius (some vsls able to do -10 deg C.)
- Can load at high ambient temperatures and also refrigerated product, via reheater. But the vsls have no means of cooling cargo.
- Sizes up to 11,000 cbm
- 2-3 cylindrical cargo tanks
- Main cargos traded;
 - LPG butane / propane
 - Petchem gasses propylene, butadiene, butene-1, raffinates, CC4, vcm

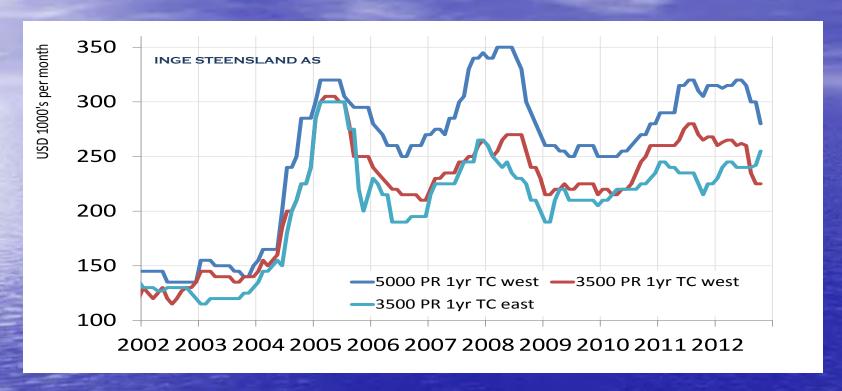
Pressurized vessels are getting more and more sophisticated (StealthGas - Diamond Series)

- 5000cbm and 6500cbm brand new design
- New eco electronic engines, with high speed / low consumption (about 15-20% reduced consumption)
- Ice class (first of it's kind)
- 10 deg C tanks
- higher pumping capacity (50% improved)
- Fully segregated tanks and separate load lines
- Bow thruster
- Loa < 100m / n2 generator / cargo re-heater / 4mt crane / full vcm capacity

Gas Elixir, 5000cbm pressurized lpg carrier, trading Indian Ocean



Pressurized tc rates (Asia / Europe)



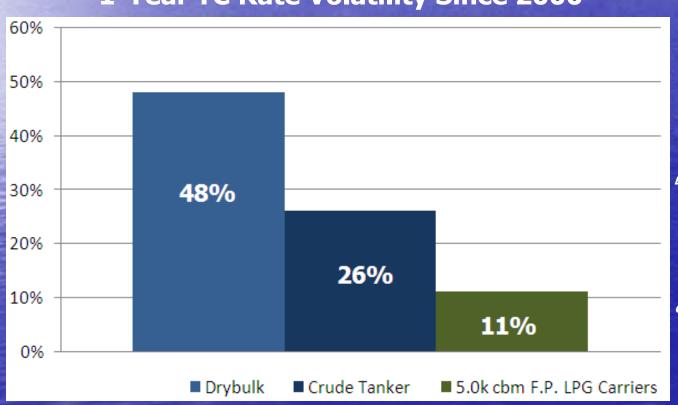
- Due to a finely balanced tonnage situation in NWE we saw a downward trend in rates 2h 2012, however this trend has now shifted, and the rates are climing again.
- Rates in Asia show continued improvement and we see a significant shortage of vessels in the area, especially on 3500cbm and 5000cbm.
- => <u>Vessels repositioning East until market balance is restored</u>

1-Year TC Rate Volatility Since 2000

But, small LPG rates remain relatively stable

Small LPG tanker rates are significantly less volatile than crude tanker and drybulk rates

1-Year TC Rate Volatility Since 2000



Data source: Clarkson Research Services

Rates: 1-year TC measured weekly

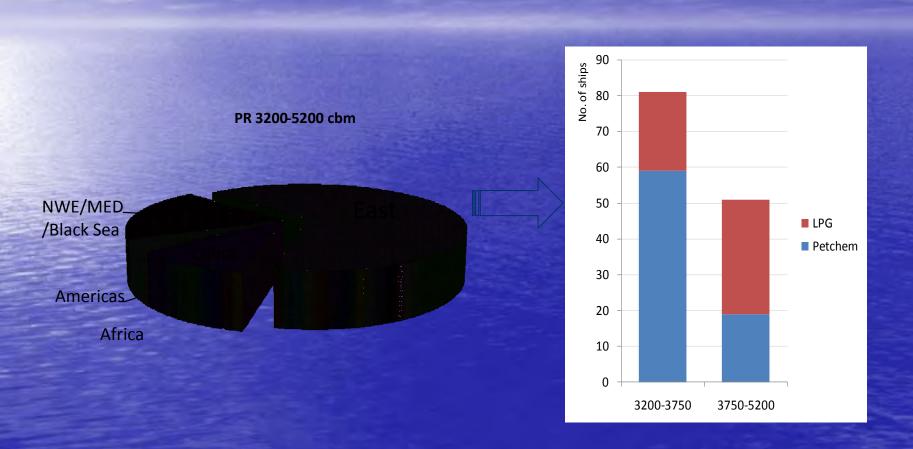
Dry Bulk: average of Cape, Panamax, Handymax, and Handysize rates

Crude Tanker: average of VLCC, Suezmax, and Aframax rates

Employment of the pressurized fleet



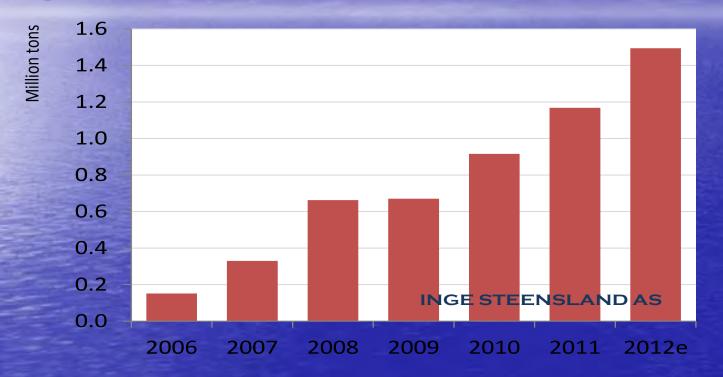
The market in the East is the key for the press fleet



Pressurized vessels in Asia

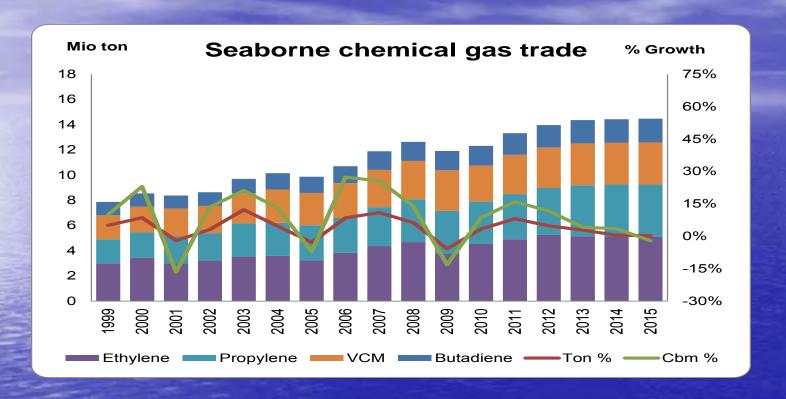
- About 60% of the world's pressurized fleet trade in Asia
 - About 65-70% of these vessels trade mainly with petrochemical gases
 - Main main vessel sizes;
 - 3500cbm trading petchems
 - 5000cbm trading LPG (and also an increasing qtty of petchems)
- Major owners/operators; StealthGas, Lauritzen Kosan, Unigas, EPIC, Daelim
- Major charterers; Shell(SIETCO), Petronas, Petredec, Mitsui, Mitsubishi, Marubeni, Vitol

Continued growth in LPG export from China



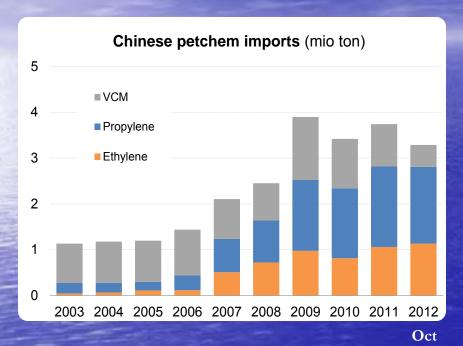
• There as been a near 1000% increase in LPG exports from China the last 6 years, and more or less all of it is carried on pressurized vessels.

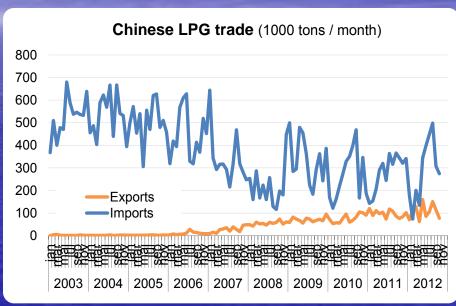
PETCHEM TRADE RECOVERING



- Cyclical petchem trades maintaining healthy volumes, especially in Asia.
- Increased exports of petchem gases from SEAsia to NEAsia

CHINA, CHINA, CHINA?





- Soaring Chinese petchem imports, esp. propylene shortage leading to over 200k ton/months imports in recent months
- Distribution trading to close neighbors emerged overnight and provides significant employment for Pressurized ships

Pressurized shipping ex Black Sea

- Increased activity and export volumes ex Black Sea (Russian & Kazakh LPG)
- New export terminal at Taman (OTEKO)
- Main export ports; Odessa, Illychevsk, Kerch, Temryuk
- Main import destinations of Black Sea pressurized LPG; Turkey,
 Albania, Egypt, Italy, Morocco
- Main players; Aygaz, SHV, Naftomar, Petredec
- Shipping Several small owners/operators with old tonnage in addition to the larger western owners/operators that are trading in the area
- Ice class and -10 tanks a big advantage in the winter season

LPG/Pressurized fleet profile

Very limited fleet growth going forward

Negative fleet growth in 2013

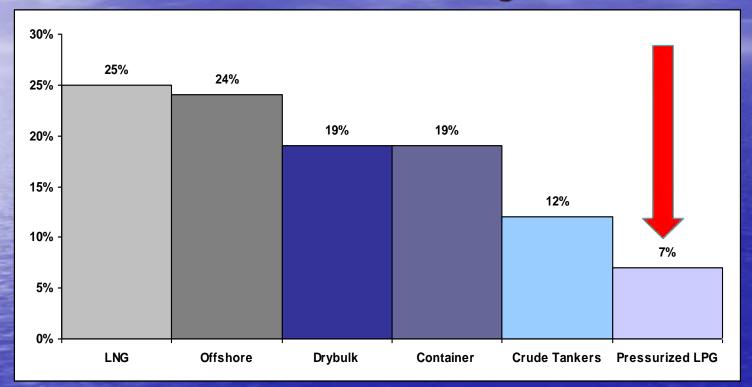
LPG orderbook significantly smaller than most other shipping segments





Despite a "stop" in new ordering, lots of ships will be delivered

But not in the Pressurized LPG segment

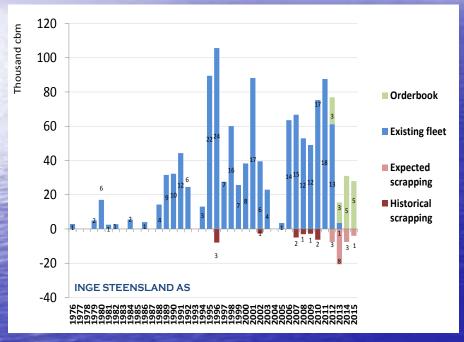


•Compared to the total orderbook for the LPG fleet which is 12%, the pressurized segment has an orderbook of only 7% (16 vessels in total), out of which 4 vessels are for Stealthgas, 6 vessels for Petrobras for domestic Brazil business, 2 for small Chinese owners for domestic China trading, and 1 vessel for Pertamina for domestic Indonesia trading.

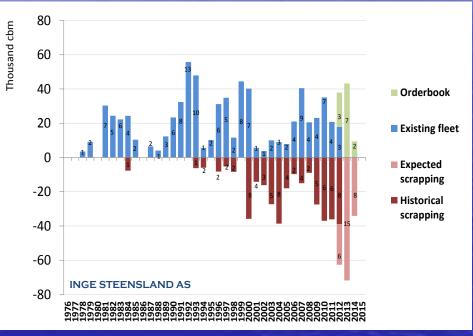
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The limited expansion in the PR fleet offset by a decline in the SR fleet 2500-7999 cbm fleet





Semiref and ethylene carrier fleet

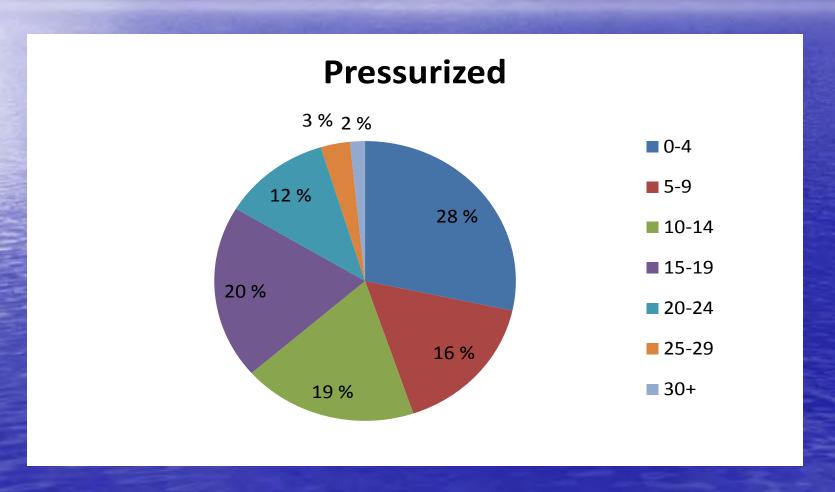


Existing fleet
Orderbook
Average age
Sub 15yr share
20yr+ share
25yr+ share

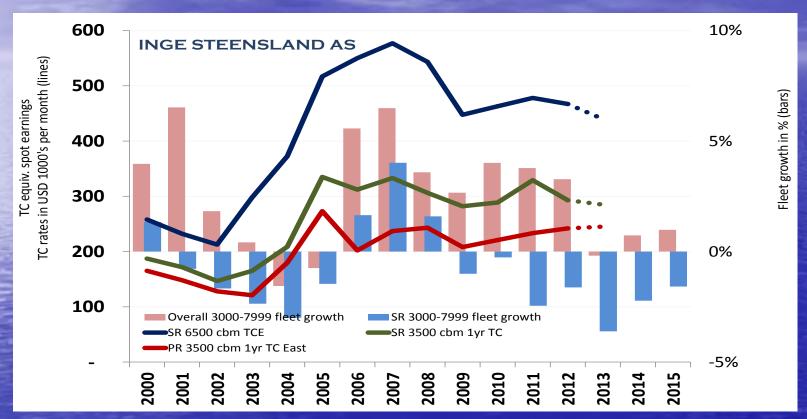
1,160,446 cbm / 272 vsls	
86,722 cbm / 16 vsls	7%
12.3 yrs	
765,591 cbm / 168 vsls	66%
117,828 cbm / 37 vsls	10%
35,761 cbm / 13 vsls	3%

Existing fleet	705,099 cbm / 146 vsls	
Orderbook	72,760 cbm / 12 vsls	1
Average age	16.6 yrs	
Sub 15yr share	346,077 cbm / 66 vsls	4
20yr+ share	175,936 cbm / 40 vsls	2
25yr+ share	129,699 cbm / 28 vsls	1

Fleet age profile



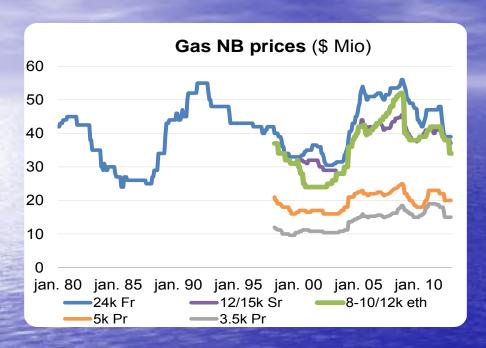
3000-8000 cbm Fleet Development Vs. TC Rates/Earnings*

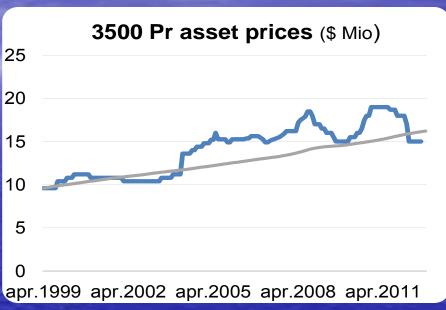


- •TC equivalent spot earnings are assessed average earnings in the spot market excluding waiting time. Yearly average
- •Fleet growth excl. Chinese fleet, assuming 30 year scrap age by end 2013.

Source: Inge Steensland AS

NB PRICES





- Cheaper Yen could potentially open up for more pressurized orders going forward
- Adjusted for inflation pressurized N/B prices are at it's lowest in 15 years
- However, the Pressurized LPG segment is receiving very limited interest from newcomers, and some of the main pressurized owners that are also involved in for example Dry and Tankers, currently do not have the cash to expand their LPG business.

Forecast

- Asian market to continue the firm trend
- Europe market to rebound from the drop experienced 2h 2012 due to vessels heading east
- 3500cbm's very firm, 5000cbm's and larger sizes to follow
- China will continue to play the leading role. Petrochemical imports / LPG exports - pressurized
- Indonesia, China, Vietnam will continue to expand their domestic fleets. Korea likely to increase their fleet.
- Black Sea to play an increasingly important role, new terminals and more export product
- New regulations in the US open up for propane export from the USG on pressurized tonnage. Big volume increase due to shalegas.
- Orderbook to shrink or stay stable due to limited new orders
- Ship values to stay relatively steady short term, increase long term

StealthGas Inc.



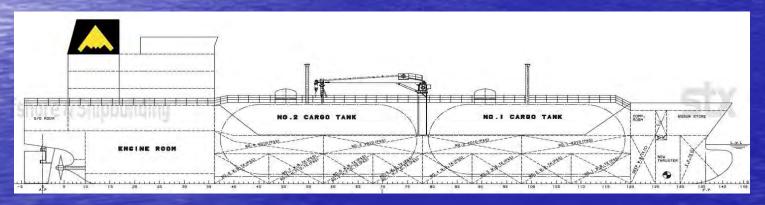


Types of vessels and products carried

Fleet Composition (including 4 NBs)



Acquisition of 4 super Eco type Newbuilding LPG carriers built in South Korea.

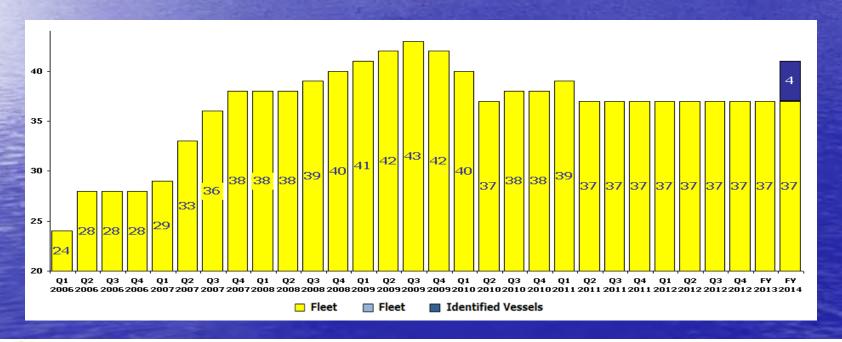


Fleet composition

- Pressurized
 - -6300-7500cbm: 8 vessels
 - -5000cbm: 11 vessels
 - -3300-4100cbm: 10 vessels
- New buildings pressurized
 - -6500 cbm: 2 vessels
 - -5000 cbm: 2 vessels
- Semi-ref
 - 3200-4100cbm: 4 vessels
- Tankers (3 MR's / 1 Aframax)

Fleet Development

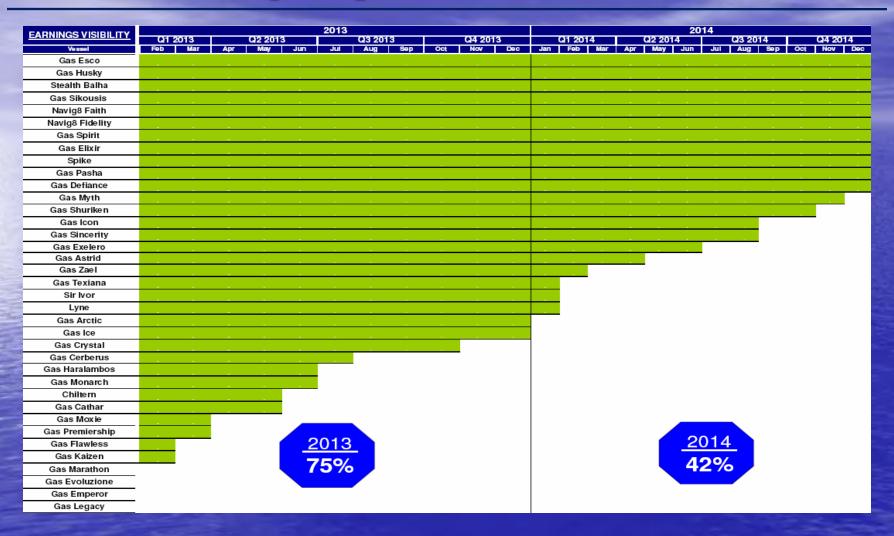
- Newbuilding program of 5 LPG carriers delivered in 2011/12
- Newbuilding program of 4 LPG carriers delivering in 2014
- Newbuilding program has committed financing
- Selective sale of older & smaller tonnage in 2012/13







Fleet Employment Profile







StealthGas Inc.

Listed on NASDAQ — under ticker symbol "GASS"

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