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Promoting Shipping Finance through Capital Markets

BS Financial Group

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Recent trends in shipping finance

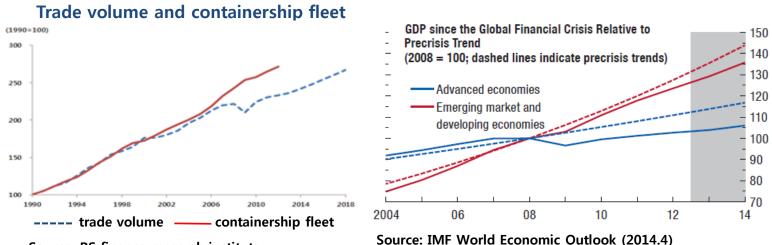


Recent trends in shipping finance



Demand and supply of vessels (1)

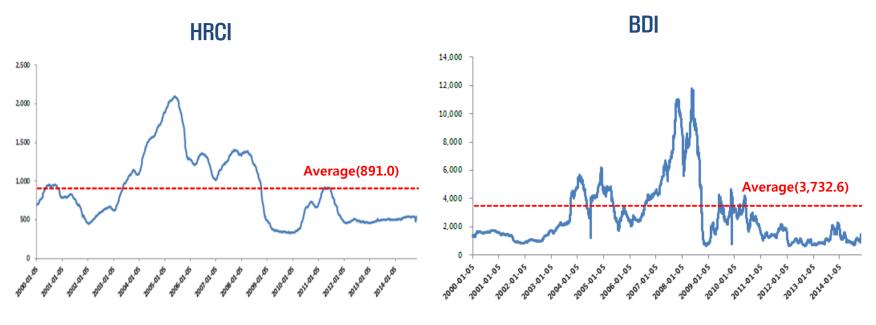
- Overcapacity in the shipping markets is not expected to be resolved in a couple of years.
- A great deal of new tonnage was added even during the economic downturn.
 - * Danish Ship Finance estimated the spare capacity of container fleet at 24% in 2013.
- World economies are recently showing very disappointing trends.
- The eurozone economy remains smaller than it was before the collapse of Lehman Brothers.
 - * GDP growth : 0.8% in 2014 and 1.3% in 2015 (IMF)
- China's growth potential is expected to decrease further, which had been a blackhole of raw materials.



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Demand and supply of vessels (2)

- Freight rates are too low to secure proper earnings for a long time.
 - The Howe Robinson Container Index (HRCI) has remained at around 550 and the BDI at 1,000 since 2012.



Source: Clarksons

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Recent trends in shipping finance



NPL

- HSH Nordbank
- Net loss of ${\in}814$ million in 2013.
- Loan loss provision against ship finance amounted ${\in}478$ million in 2013.
- Commerzbank
- Shipping finance cost sharply increased due to stricter regulations.
- It withdrew from shipping sector in 2012.

※ Balance of ship finance : €13 billion (as the end of September in 2014)

The ECB ordered German banks to set aside an extra
 €1.1 billion against their shipping portfolio in October, 2014.



Dispose of bank's risk exposure

- Operating right of vessels and related portfolios in struggling SPVs were transferred.
 - An SPV aquired operating right of vessels and related loans.
 - Aquiring SPV paid a part of existing loan so that exposure of previously financing bank was reduced.

(Example)

- Vessels forming the transaction : 5 tankers and 5 containerships
- Period of operating right : 5.5 years
- Loan amount : \$301.2 million
- Original lending bank : HSH Nordbank
- Navios group paid \$127.8 million in cash to HSH Nordbank and assumed \$173.4 million of subordinated HSH participating loan.
- Navios expects to use 80% of revenue net of operating expense and capital cost for loan repayment.



Basel III

- Long-term lending and non-liquid investment are avoided due to stricter capital and funding requirements.
 - (1) Capital requirement

 $\frac{\text{commen equity}}{\text{riskweighted assets}} \geq 4.5\%$

(2) Leverage ratio

 $\frac{\text{Tier 1 capital}}{\text{total assets (risk unweighted)}} \geq 3\%$

(3) Liquidity coverage ratio

 $\frac{high-quality\ liquid\ assets}{net\ cash\ outflows\ over\ 30\ days} \geq\ 100\%$

(4) Net stable funding ratio

 $\frac{\text{stable funding available}}{\text{stable funding required}} \geq 100\%$



Focusing on capital market solutions

- Many European banks contracted their shipping exposures.
- Many banks are still under pressure of deleveraging.
- Corporated bonds, which had been a supplementary tool before the crisis, become common source for shipping sector.
- Bond program has been diversified from plain vanilla bond into convertible bond and covered bond.
 - CB : Issuers can save funding cost and investors have a chance of capital gain when markets are recovered.
 - Covered bonds : Banks can save funding cost and investors get higher security. (HSH Nordbank : €500 million in 2010)

(Before 2011)

(2014.1~10)

Bond : Bank Ioan =1 : 7.3

Bond : Bank loan =1 : 1.4

Source : ABN AMRO, Marine Money



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Capabilities of Korea's commercial banks in shipping sector

- Funding cost in foreign currency : less competitive to global banks
- Ship finance know-how : not much experienced
- Risk management skill of long-term lending : less experienced
- Volume of assets : Major banks in shipping sector are mainly top 50

X Nordea(T29), Deutsche Bank(T4), BTMU(T2),

HSBC(T3), BNP Paribas(T6), Credit Agricole(T5)

Financial climate: limited risk appetite



Alternative investors

- Current trends of global alternative investment markets
- Total assets under management of top 100 alternative asset managers : \$3.1 trillion (2012)
- Pension funds are the largest investors (36%)
- Other Major players : wealth managers, insurance companies, sovereign wealth funds, funds of fund
- Investment assets : real estate, PE, hedge funds, infrastructure, structured products, commodities
- Private Funds participate in ship finance
- Annual average investment volume during 2010~2013 : \$3.9 billion
 ※ Syndicated loan in 2013 : \$74 billion
- Period : 3~7 years
- Type : equity investment in shipping fund, joint venture with ship owner, lending, acquisition of ship or shipping loan
- Interest in alternative investment by banks, insurance companies and pension funds is increasing.



Expanding bond markets

- Reducing risk from economic cycle.
- Shortening bond maturity into 3~5 years.
- Guarantee by government owned financial institutions.
- Issuing ship-backed bonds and freight-backed ABS.
- Lower funding cost by splitting ship company's credit risk.
- Introducing variable coupon bond linked freight rate
- Coupon rate is adjusted following freight rate change.
 - Issuer : save funding cost
 - Investors : additional earning when freight rises.
- Developing loan securitisation markets.
 - Issuing asset-backed securities based on commercial banks and BMFC loans.
 - Attracting insurance companies, private equity and pension funds.

Widening business scope of government owned financial institution

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- Diversifying the business of Busan Marine Finance Center (BMFC)
 - Attracting banks, insurance companies and pension funds to increase their shipping portfolios through underrighting or guarantee of bonds by BMFC.
 - **※ Example of bond guarantee by KEXIM**
 - Borrower : Scorpio Tankers
 - Type : direct loan \$175 million, bond guarantee \$125 million
 - Use : shipbuilding oil tankers
 - Shipbuilder : Hyundai Mipo, Hyundai Samho, DSME
- Expending KAMCO business in acquisitions and sales of non-performing ship finance.