Economics of a tanker Market -Optimum Operating Conditions

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Capt Deepak Gupta Univan Maritime Economics of Tanker Market

Understanding Optimum Tanker Market
 Ship Size elasticity – Tanker market density
 Where do we stand in terms of an Ideal condition

Importance of understanding Tanker Market density

Vessel operating costs

Operating cost (OC) = f (Q x L X S x F)
Q - Size of the vessel
L - Wages and Subsistence
S - Stores , Supplies and Expenses
F - Fuel Consumption

Q / F – Fixed input L / S – Elasticity and Plasticity

Historic Movement of Factors

Reference Fuel Costs Not included (only Consumption)

Q and F – Very Elastic (Technology , better engines, new initiatives – JIT , SSS)

Economic Density of Tankers

○ The density of Tonnage in a segment is plastic and does not change and its important to know in which segments there is density economics and where there is density dis-economics

Reactor K – Measures the response of OC to change in Tonnage , for example if K is 0.4 then for every 10 pct increase in the size of tonnage, the OC effect increases by 4 pct. If K = 0 the OC is perfectly elastic to increase in Size (L/S – are responsive as required). In this measure the OC is not the actual, OC but as a factor against earnings

Density Economics

ED = 1 - K

ED = (+) is Density economics

ED = (-) is Density Dis-economics

What are historical K Values

SIZE	Κ
C 35 – 40 000	0.045
cs 25 - 35 000	0.066
v 40 – 50 000	0.199
c < 25 000	0.351
😋 Upto 150 000	0.41 - 0.65
cs > 150 000	0.892

Why do we need to know all this??

 Third party Management service needs to understand earnings of owners
 More correlation to Market conditions
 Focus groups on vessels
 Help owners win the situation
 Stress group vessels Ideal Conditions – what we Propose/ Project

OPEX IN PERSPECTIVE CREWING COSTS 55% CR STORES 6% CR SPARES 7% **CRLUB OIL 8%** ROVISIONS 3% **REPAIRS & MAINTENANCE 5%** Rainsurance 12% CR GENERAL 4%

Club Statistics - 1989







Conclusions

 Understand the Operating Cost inflexibility of the Market and high plasticity in L and S Factors
 Understand Owners' perspective by correct market density statistics and response
 Align vessel management – Create Focus groups
 <u>Reduce the cost variables for owners</u>

Reducing Cost Variables

Qperations (marine support- Non Standard)
 0.05 - 0.8
 Qperations (Marine Safety support -Standard)
 0.5 - 1.1
 Qamma Training - Negligible - measurable

Need of the Hour

Get Owners' specific Needs
Increase operational expertise - The Big Names in pool markets far beat the stats
Increase standard protocols
INVEST - In Training , target pools where the K value will hurt the owners - Help them ride this Market



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