

#### **Collecting Data for Evaluation of Vessel Performance**

Sverre Patursson Vange, Head of Performance Management

Navigating Ecotankers Conference, 27th March 2014



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- Energy Efficiency Project REJUICE
  Data Needed for Performance Analysis
  Collection of Performance Data
- 4. Automated Data Logging
- 5. Examples of Performance Graphs

VICTORIA KOSAN

6. KPI focus

KOSA

LPG

## **Energy Efficiency Project - REJUICE**

Based on consultant report, various focus areas was identified in 2012



LAURITZEN KOSAN

## **Data Needed for Performance Analysis**

Required data to evaluate performance and effect of REJUICE tasks





#### **Collection of Performance Data**

Since 2008 Lauritzen Kosan has used a semi-automated system to collect data based on noon-reports



#### **Example of not-so-accurate Performance Data**

Data based on reporting's from two sister ships compared to average for all sister vessels (line)



Left is reasonable, right is difficult to conclude on:

Doing everything between 14 and 20 kt with a consumption of 26 t/day?

Doing 15 kt with a consumption of everything between 16 and 28 t/day?



## **Automated Data Logging**

High Frequency Simultaneous Data Sampling without occupying the crew



#### **Examples of Performance Graphs 1/2**





#### **Examples of Performance Graphs 2/2**



## **Establishment of Performance Awareness**

What does it take

- Reliable data that both Crew and Managers trust
  - High accuracy meters
  - Elimination of the human factor
- Transparency
  - Possible to Monitor 24/7 for all involved parties
  - Reliable comparison between sister vessels
- Bonus linked KPI's
  - Good experiences from KPI's related to vetting observations



# Questions?

Lauritzen Kosan A/S

Sankt Annae Plads 28 P.O. Box 2147 1291 Copenhagen K Denmark

Phone: +45 3396 8000 www.lauritzenkosan.com

