

CMMS

- CMMS - Computerized Maintenance Management System
- My experience
 - A highly integrated Government developed system in the USCG
 - Researching commercial options for the ARRV
- My own prejudices
 - Complexity is bad
 - Easy to make it more work than it is worth

CMMS

- Conducted a survey using SurveyMonkey.com
- Received 13 Responses
 - 5 global class
 - 1 ocean class
 - 4 intermediate
 - 7 regional
 - 3 small

HOW MANY ARE USING A CMMS

- 7 of 13 responded use a CMMS
 - 4 are using an in-house developed system
 - 3 are using commercial system
- For multi-ship operations 1/3 use the same system for all ships
- What is used in place of CMMS?
 - Spreadsheets
 - Paper record
 - Log books for each system
 - Engineering experience

CMMS

- In-house development
 - Excel
 - Access
 - Word
- Commercial systems
 - AMOS
 - ABS Nautical

Features Utilized

Responses

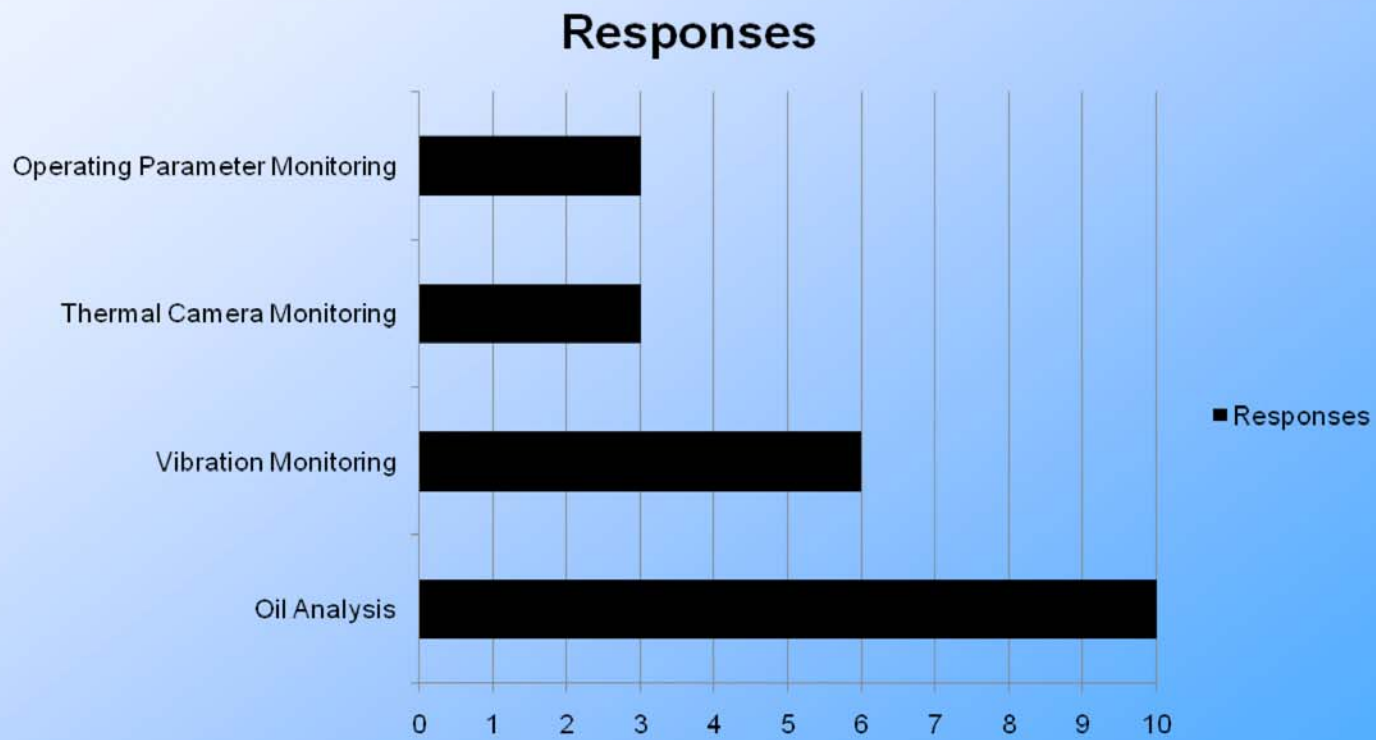


Top CMMS Functionalities

- PMS
 - Scheduling
 - Tracking
- Machinery History
- Inventory
- Regulatory Compliance
- Standardization

Condition Based Maintenance Programs

10 responses for utilizing Condition Based Maintenance programs
and half have integrated CBM into their CMMS



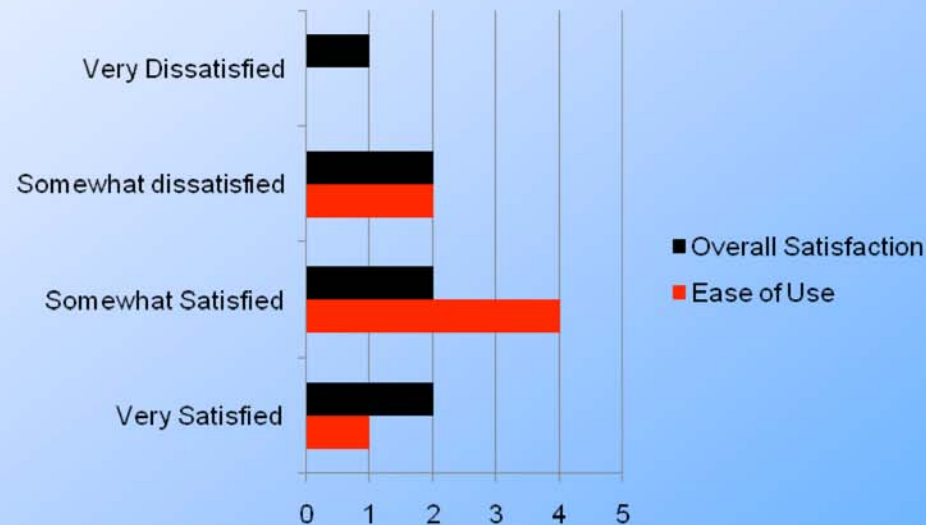
Science Systems

- Only 2 responses said they utilized CMMS to track science systems
 - Mechanical systems, not electronics
 - For others, marine techs track it
- No one tracked wire history using CMMS

Rating For Level Of Satisfaction

- 7 Responses

- IT support lacking
- Complexity of system
- Lacks features
- Hard to get started



Training

- 75% have no training program in place
- 25% use in-house developed training
- No one uses vendor provided training

Out of 7 responses, these are areas that provided SOME or SIGNIFICANT benefit



Biggest Challenges

- Getting adequate IT support
- Compatibility with institution systems
 - Purchasing
 - Personnel
- Ease of use

SIMPLIFICATION

Advice For Choosing a CMMS

- Clearly establish your functional requirements first
- Get institutional buy-in
- Look for ease of initial setup
- Don't get discouraged at first as setup can be labor intensive and tedious
- **SIMPLIFICATION**