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Industry Insight: Condition Monitoring & Condition Based Maintenance

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Presented by





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John Hathaway

Director, Product Management

I joined ABS in 2007 from an NS customer to influence the direction of our products. Product is my passion – continuously improving our fleet management suite to solve the key business needs of our customer





Condition Monitoring & Condition Based Maintenance

Overview

Recent Enhancements & Key Features

API

Demo New Features

Condition Monitoring & Condition Based Maintenance ABS WAVESIGHT





Condition Monitoring

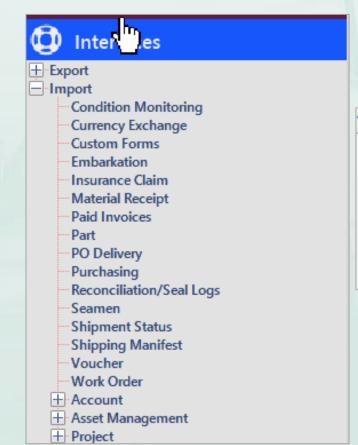
- Condition Monitoring (CM) and Condition Based Maintenance (CBM) are practices used to track Machinery Health and running efficiency of equipment which in turn can influence maintenance schedules and condition-based maintenance/repair work.
- Manage condition monitoring types like Vibration Monitoring, Oil Analysis, Megger Readings, Infrared Thermography, etc
- Define status as reported by vendor or as defined by your organization (ie Poor, Good)
- Optionally define measurement points for readings per equipment (vs 6.5.27)
- Configure your equipment to automate action based on condition
- Record condition
 - via condition report –provided by vendor as a summary of equipment health
 - via planned job you capture reading and system interpret the condition and proposes action

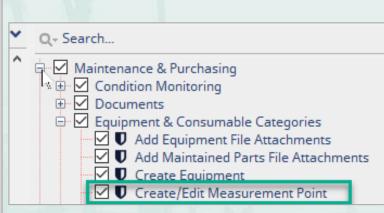




Implementation/Configuration

- Maintenance Manager Authorizations > System Administration
- Standard Job creation with work instructions
- CM Vendors (Companies)
- Company Type
- CM Equipment Creation
- Reserved Document Numbers
- Notifications (email & internal)
- Master Data to include:
 - Measurement point
 - Condition monitoring status
 - Condition monitoring type
- Optional CM Interface

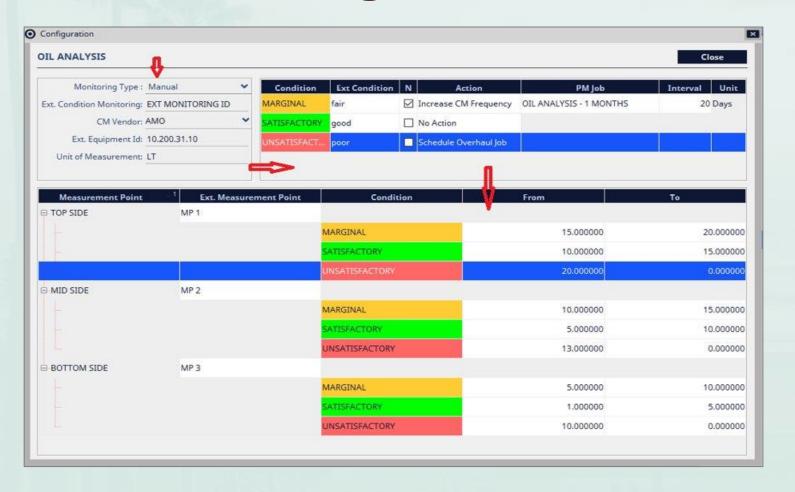








Configuration – Measurement Points

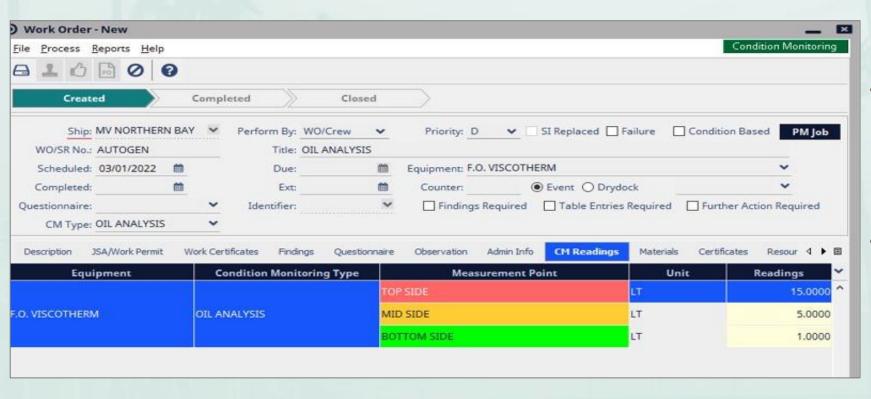


- Released in vs 6.5.27
- General Data > The measurement points are available under Machinery Measurement Point
- Measurement point can be associated with one or many CM Type
- Manual or automated collection of data based on measurement points





Work Order

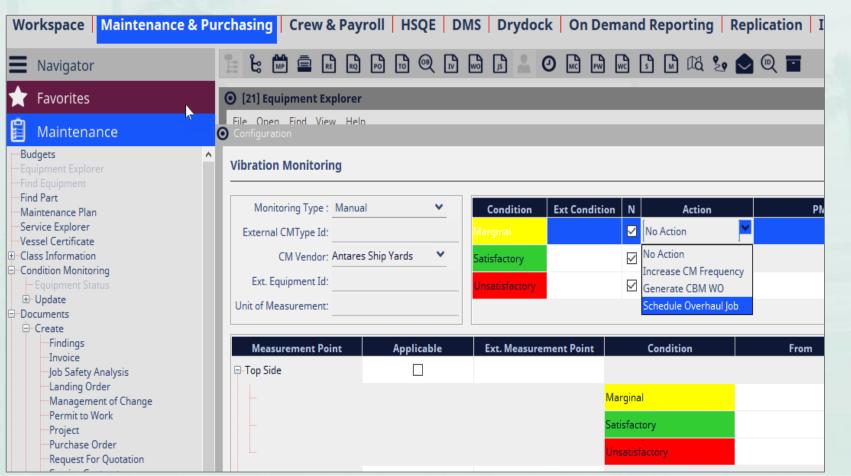


- Condition Monitoring WOs from the Standard Jobs or Adhoc Condition Monitoring Work Orders can record the measurements and generate the actions required from the measuring points.
- This could be to Increase PM Frequency, Create CBM Work Orders, or No Action.





Actions Based on Status

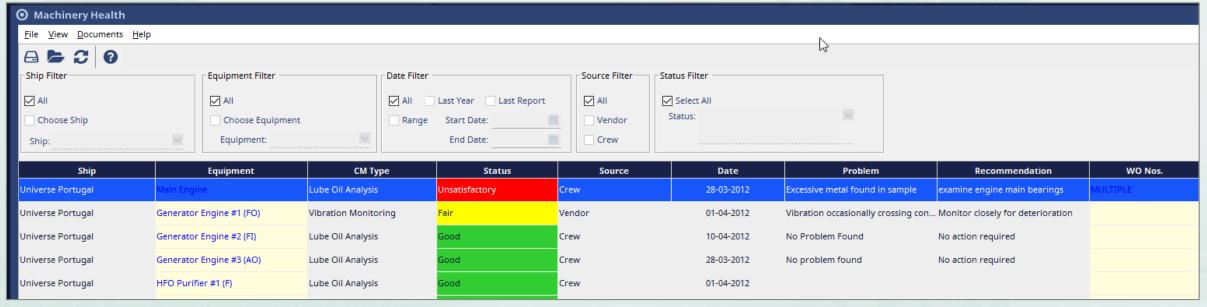


- Condition & Action based on Status
 - No Action
 - Increase CM Frequency
 - Generate CBM WO
 - Schedule Overhaul Job
- From the condition information, the maintenance schedules could be increased or decreased, and repair work can be initiated





Equipment Health Status



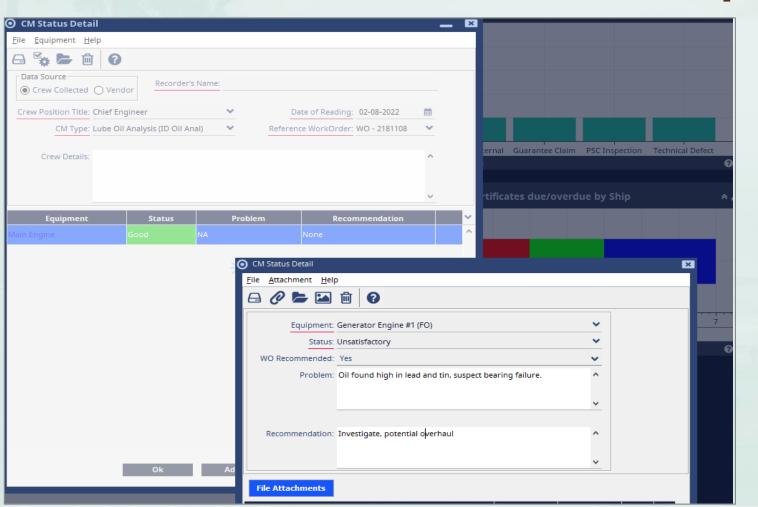
- Machinery Health can be viewed from the Equipment Status screen or the Equipment Hierarchy
- At either Ship or Fleet Level the CM Equipment Status will show the Machinery Health which reflects the:
 - Ship (If at Fleet Level)
 - Equipment
 - CM Type

- Status
- Source of the report,
- Date
- Problem if found
- Recommendation
- Work Orders





Condition Report



Condition Reports can be created/updated manually by the crew or via interface

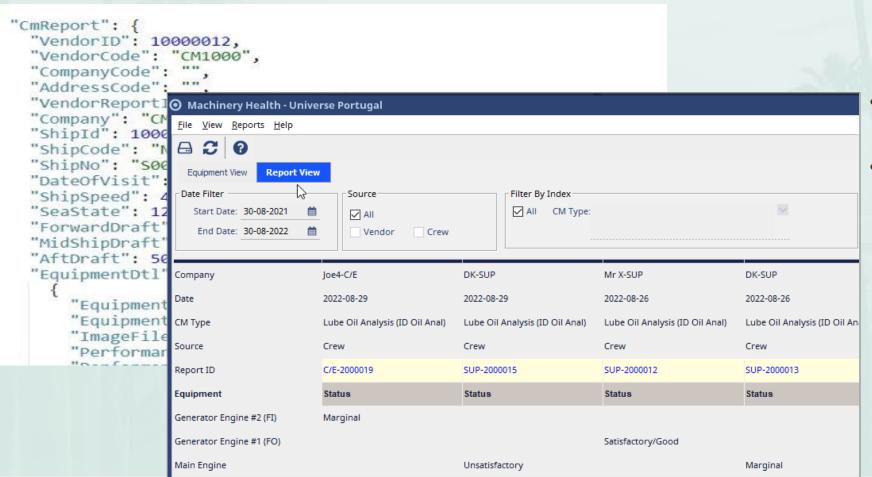
CM Report Detail:

- Data Source
- Recorder's Name
- Crew position Title
- Date of Reading
- CM Type (One per CM Report)
- Reference Work Order (WO), this is a requirement, multiple WOs can be selected
- Crew Details if needed
- Add Equipment, multiple Equipment can be linked



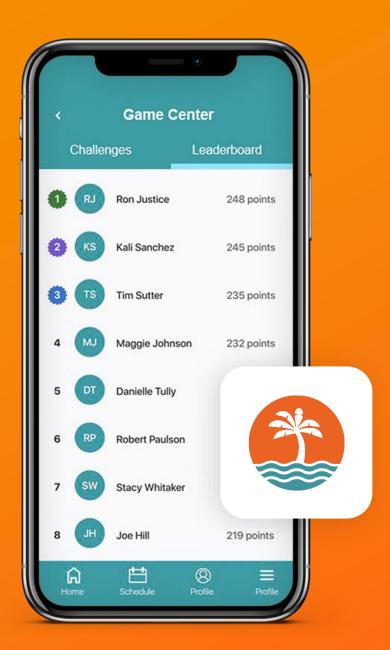


Condition Report via API



- Reports are fed into the system either manually or interfaced (xml)
- Images associated with the file are added if they have been placed in the same location





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THANK YOU

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