Lunch Keynote Panel: The Path to Industry 4.0 – Challenges and Solutions

Moderator: David Radin, VP, Hamiltonian Systems
The Path to Industry 4.0 – Challenges and Solutions
Fuel Usage

- **Fuel Level**: Will be < 15.4 Litres within 1 hour.

Engine Oil Level

- **Oil Level**: Will be < 4.1 Litres within 1 day.

**OTHER CONTRIBUTORY ATTRIBUTES**

The following attributes contribute to the prediction but can not be displayed on the chart:

- GEO LOCATION
- LAST MAINTENANCE DATE
Forklift 2: Diagnostic

Overall:
60% Chance of failure in next 24 hours

Lift Cylinders:
15% Chance of failure in next 36 hours

Propane Tank:
17.8% Chance of failure in next 24 hours

Power Plant:
75% Chance of failure in next 24 hours
Oil pump failure (DC: 1456)
Oil pump failure (DC: 1456)

Fuel-valve failure (DC: 6761)
Gasket failure (DC: 10081)
Fuel-Injector damage (DC: 1734)
Throttle-power short (DC: 1218)
Oil pump failure (DC: 1456)  89%
Improper-camshaft position: (DC: 1214)

Find Resolution
Oil pump failure (DC: 1456)

- Replace fuel valve (SC: 1543) (37%)
- Replace oil filter (SC: 1217) (38%)
- Upgrade fuel injector (SC: 11342) (35%)
- Replace gaskets and wiring (SC: 28438) (35%)
- Adjust camshaft position (SC: 34224) (37%)
- Replace oil pump (SC: 10248) (50%)

15% Chance of failure in next 36 hours

Troubleshoot
Resolve: Replace oil pump and Replace oil filter

Replace oil pump (SC: 10248)

1. Create work order to order parts
2. Create maintenance order to replace parts

Resolve

Replace oil filter (SC: 1217)

1. Create work order to order parts
2. Create maintenance order to replace parts

Resolve
Forklift 2: Diagnostic

Overall
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17.8% Chance of failure in next 24 hours

Power Plant
75% Chance of failure in next 24 hours

Troubleshoot

Maintenance work order scheduled. (M1-1105-30-MWO-O1), Created order (M1-1105-30-PO-43)
Work Orders Released
- 2 Top Priority
- 15 Past Due
- 16 Total

released Work Orders
- 2 Top Priority
- 15 Past Due
- 16 Total
The Path to Industry 4.0 – Challenges and Solutions
Good Data - What to expect?

- **Availability**
  - Accessibility
  - Timeliness
  - Authorization

- **Usability**
  - Definition
  - Credibility
  - Metadata

- **Reliability**
  - Accuracy
  - Integrity
  - Consistency
  - Completeness
  - Auditability

- **Relevance**
  - Fitness

- **Presentation**
  - Readability
  - Structure
5- Steps To Successfully Leverage **IoT** to Transform Your Business

Webinar –
**Wednesday, November 14, 2018**
**2:00 pm**

Register for Webinar: