

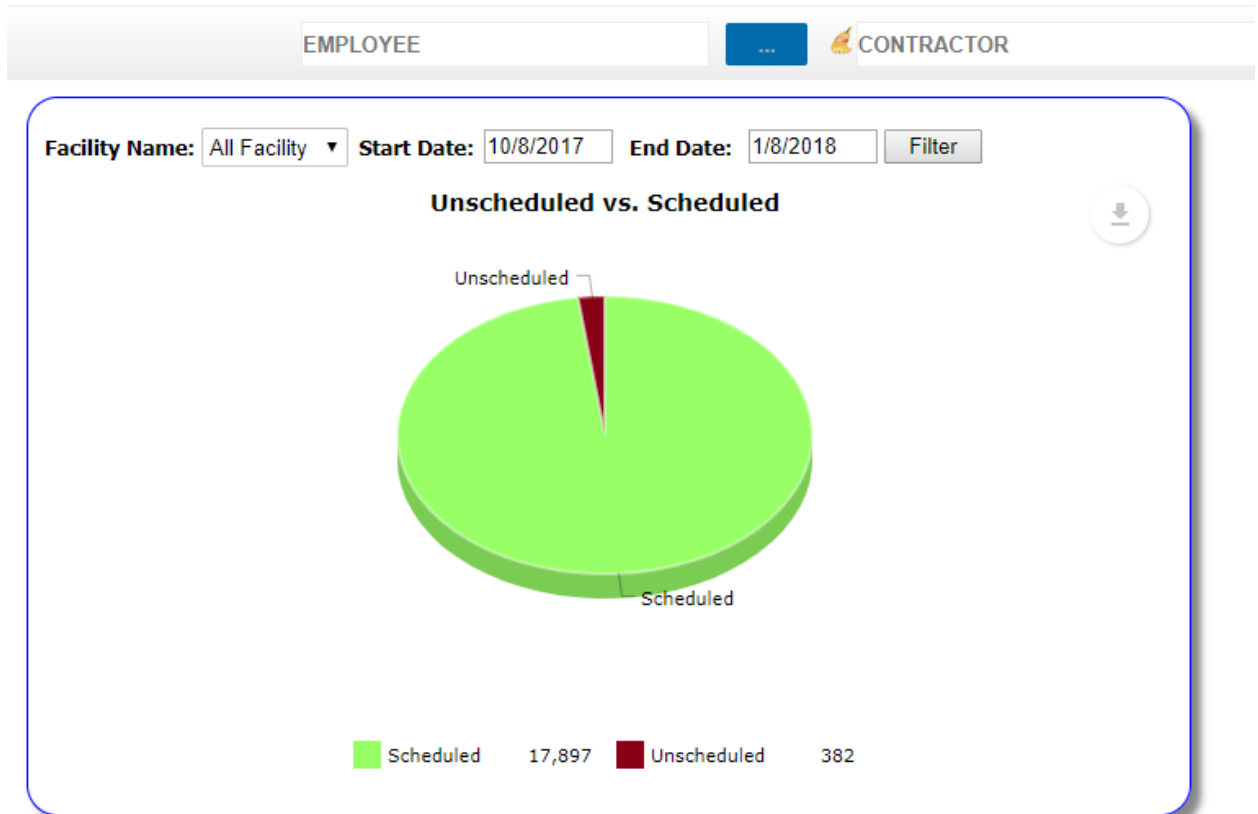


KPI Detail Document (Version-1)



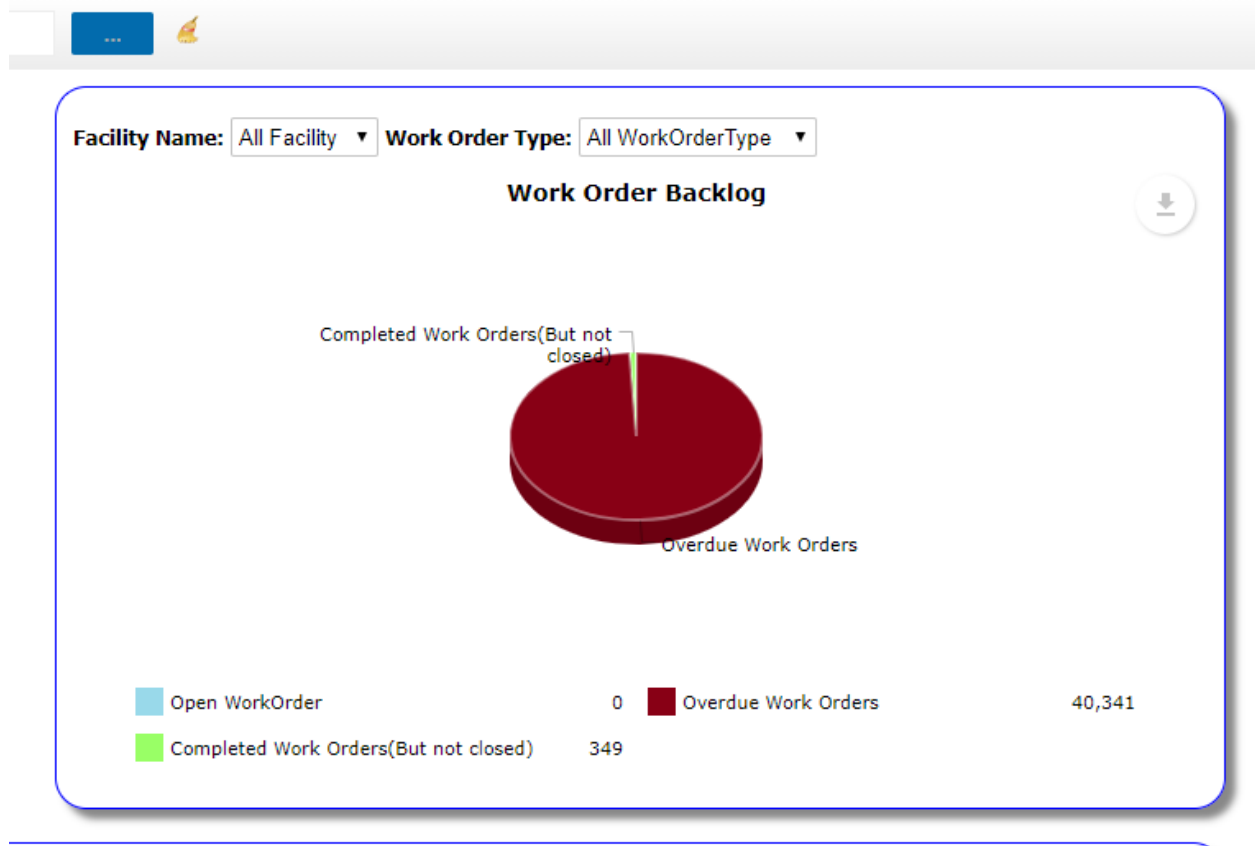
Home Page Key Performance Indicators

1) Unscheduled vs. Scheduled



The above Pie Chart is used to show the total number of scheduled and unscheduled work orders, where green represents the percentage of scheduled work orders and red represents the percentage of unscheduled work orders. Hovering the mouse over the graph will show the actual percentage number.

2) Work Order Backlog

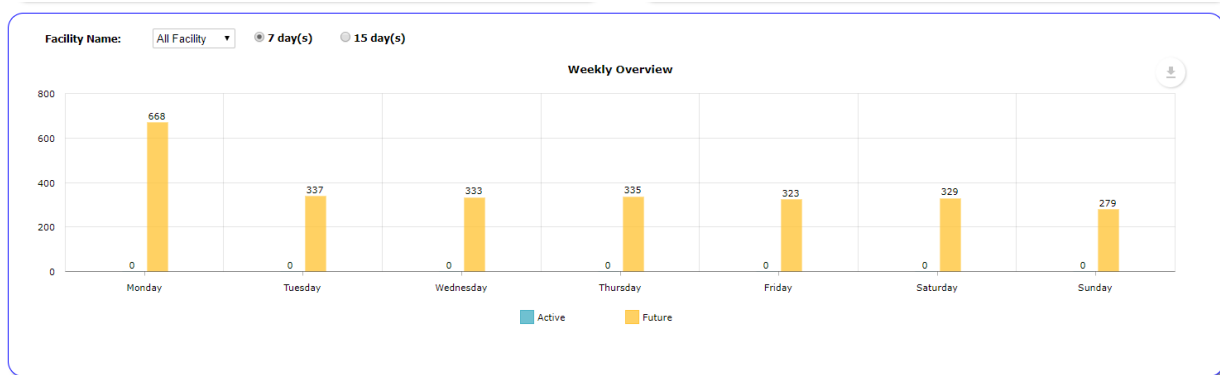


Open Work Order: All work orders where the Required Date is greater than or equal to the current date and the completion date is null.

Overdue Work order: - All work orders where the Required Date is less than the current date and the completion date is null.

Completed Work Order (But not closed): All work orders where the Completion Date is not null, but have not been closed.

3) Weekly Overview



The above chart shows Active Work Orders from the Work Orders table and Future Work Orders from the Schedules table. The blue bar shows work orders which have activated today or previously and the orange bar shows Future Work Orders.

- 1. Drill down functionality for Active Weekly Overview:** If you click on a blue Active bar, it shows the detail list of work orders for that day. It also has searching functionality with the ability to export data based on filters.

Weekly Overview

Work Order Number	Description	Work Started Date	Activation Date
20140519007		05/19/2014	05/19/2014
20140517042	New direct work order	05/17/2014	05/17/2014

Total Work Orders: 2

Close

- 2) **Drill down functionality for Future Weekly Overview:** If you click on an orange Future bar, it shows the detail list of upcoming scheduled work orders. It also has searching functionality with the ability to export data based on filters.

Weekly Overview

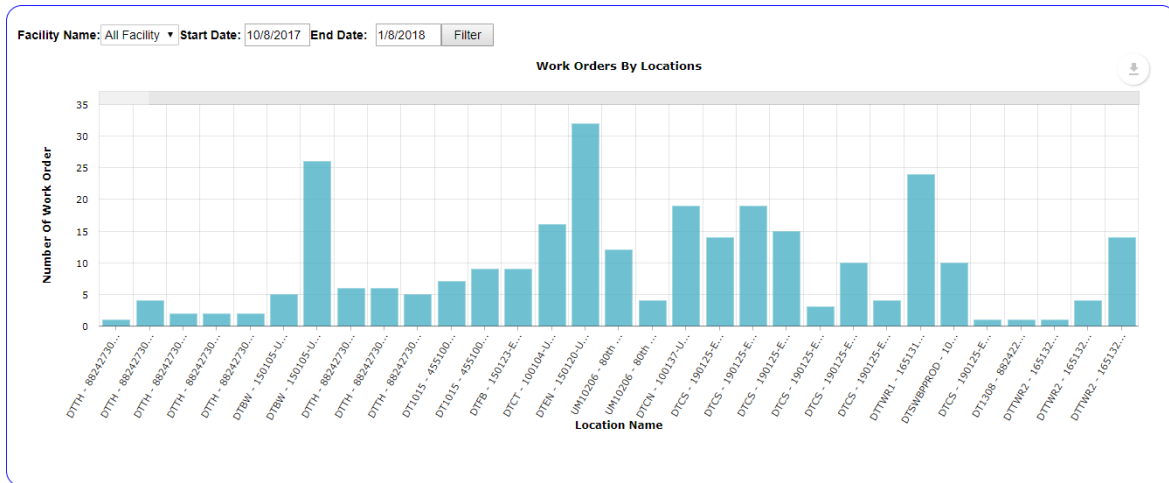
Schedule Type	Description	Summary	Next Occurrence Date	Last Occurrence Date	Manual Activation Date
Monthly			11/09/2016	05/18/2016	
Monthly			11/09/2016	05/18/2016	
Monthly			11/09/2016	06/15/2016	
Monthly			11/09/2016	05/18/2016	
Monthly			11/09/2016	05/18/2016	
Monthly			11/09/2016	05/18/2016	
Monthly			11/09/2016	03/09/2016	
Monthly			11/09/2016	06/08/2016	
Monthly			11/09/2016	04/13/2016	
Weekly			11/09/2016	05/25/2016	
Monthly			11/09/2016	12/14/2011	
Weekly			11/09/2016	05/20/2015	
Monthly			11/09/2016	12/09/2016	

Total Work Orders: 585

Close

Standard KPIs- Pricing available on request

1) Work Order by Locations



The above chart is used to show the total count of work orders according to location based on the facilities assigned to the user logged in.

There are 2 levels of drill down functionality for this chart.

1. First level of drill down functionality for Work Order Locations:

If you click on any particular blue location bar, it shows the detail list with all work orders associated with that location. It also has searching functionality with the ability to export data based on filters.

Quick Links			
200			
Work Orders By Locations			
Location Name	Location Type	Facility Name	Work Order Number
Building 2 (13)	Building	Hegins	16
Work Order Number	Description	Work Started Date	Activation Date
20160921003	Optimizer breaking glass	09/20/2016	09/20/2016
20160823110	DROP ARM 1		08/23/2016
20160823109	PST CUTTING TABLE	08/23/2016	08/23/2016
20160823049	SERVICE ROBOPAC WRAPPER	08/23/2016	08/23/2016
20160823108	SERVICE DROP TABLE	08/23/2016	08/23/2016
20160823107	SERVICE BREAK TABLE		08/23/2016
20160823102	DROP ARM 2 SERVICE		08/23/2016
20160823099	DROP ARM 3		08/23/2016
20160823096	DROP ARM 4 SERVICE		08/23/2016
20160823103	SERVICE CART		08/23/2016
20160823100	SERVICE CART		08/23/2016
20160823097	SERVICE CART		08/23/2016
Total Work Orders: 16			
Close			

2. Second level of drill down functionality for work order list:

While viewing the work order list from Level 1, if you double click on the list of work orders, it will open another pop up with all the task details associated with that particular work order. It also has searching functionality with the ability to export data based on filters.

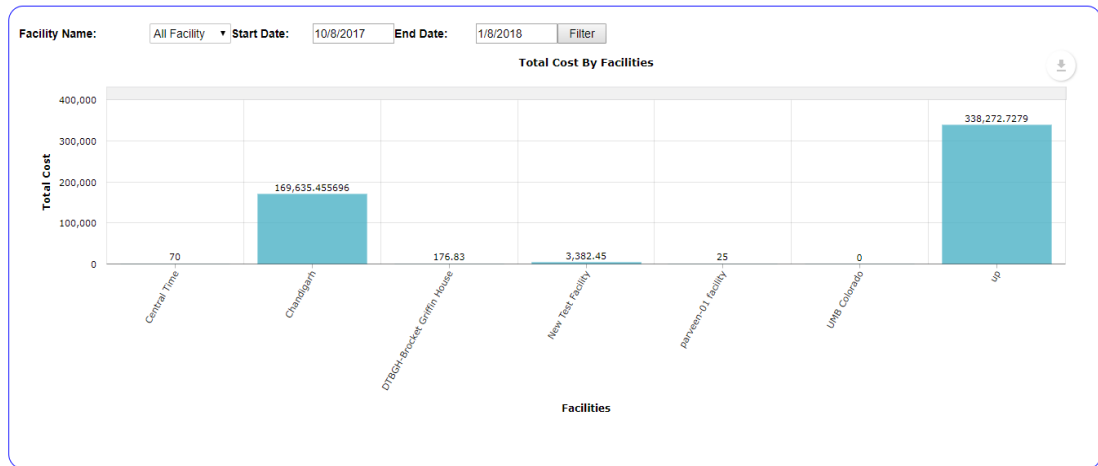
TASK LIST BY WORK ORDER

Sequence	Task Number	Description	Estimated Hours	Start Date	Completion Date	Employee Name	Labor Craft Code	Hours at Rate 1	Hours at Rate 2	Hours at Rate 3	Hours at Rate 4	Hours at Rate 5	Contractor Name
1	001-DM-Electrical	DM - Electrical	0.0000	11/06/2017		Kerrie Spell	MC Engineers	0.0000	0.0000	0.0000	0.0000	0.0000	
2	001-DM-HVAC	DM - HVAC	0.0000	11/06/2017		Kerrie Spell	MC Engineers	0.0000	0.0000	0.0000	0.0000	0.0000	

Total Tasks: 2

Close

2) Total Cost by Facilities

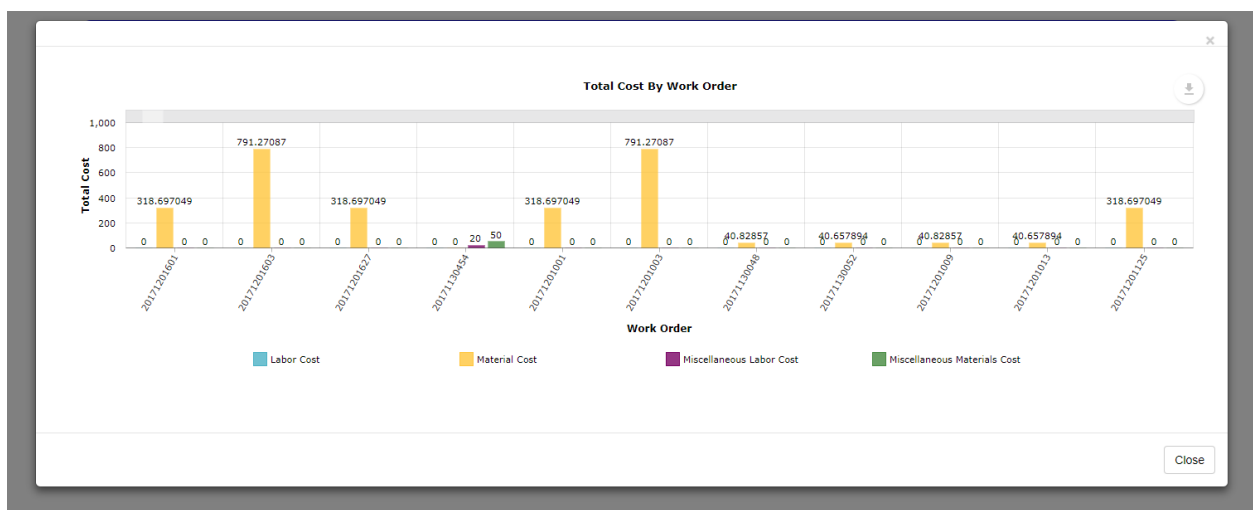


The above chart shows the total cost (**Labor Cost + Material Cost + Miscellaneous Labor Cost + Miscellaneous Materials Cost**) of all work orders according to facilities.

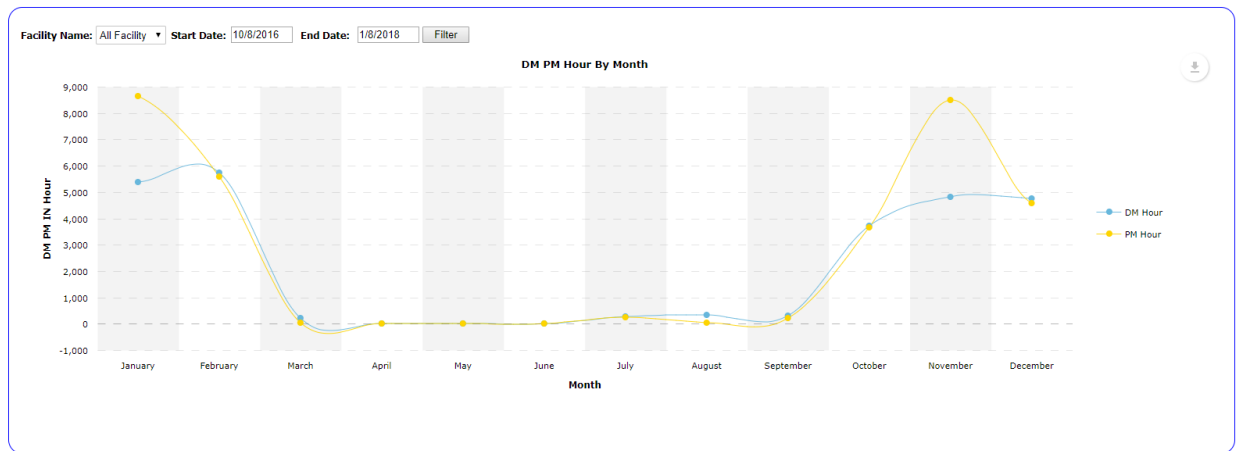
When the user selects a specific facility, then the total costs will reflect the work orders performed in that facility.

There is a drill down function available to see the total cost associated with a particular facility:

- 1. Total Cost By Work Order:** If you click on a facility bar, you will see another graph showing the work order costs broken down by labor cost, material cost, miscellaneous labor cost and miscellaneous material cost.

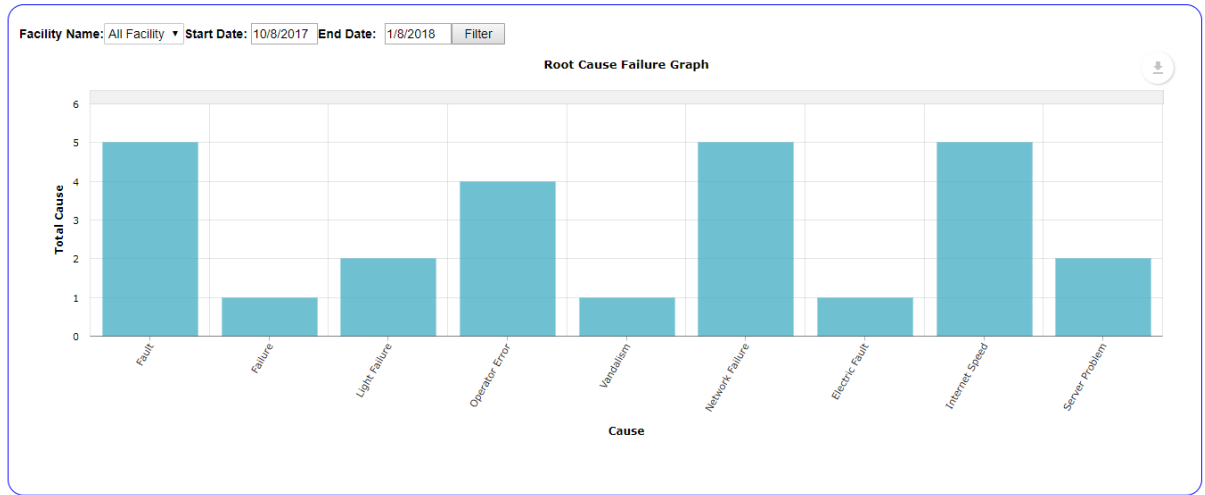


3) DM PM Hours by Month



The above chart shows the total hours spent on DM (Demand Maintenance) and PM (Preventive Maintenance) work orders by month.

4) Root Cause Failure Graph



The above chart shows the total hours spent on work orders by cause types.

There is also a drill down function available by clicking on the bars.

- 1. Closed Work Order Cause:** If you click on a Cause bar, it shows the detail list of all closed work orders associated with the selected cause. It also has search functionality with the ability to export data based on filters.

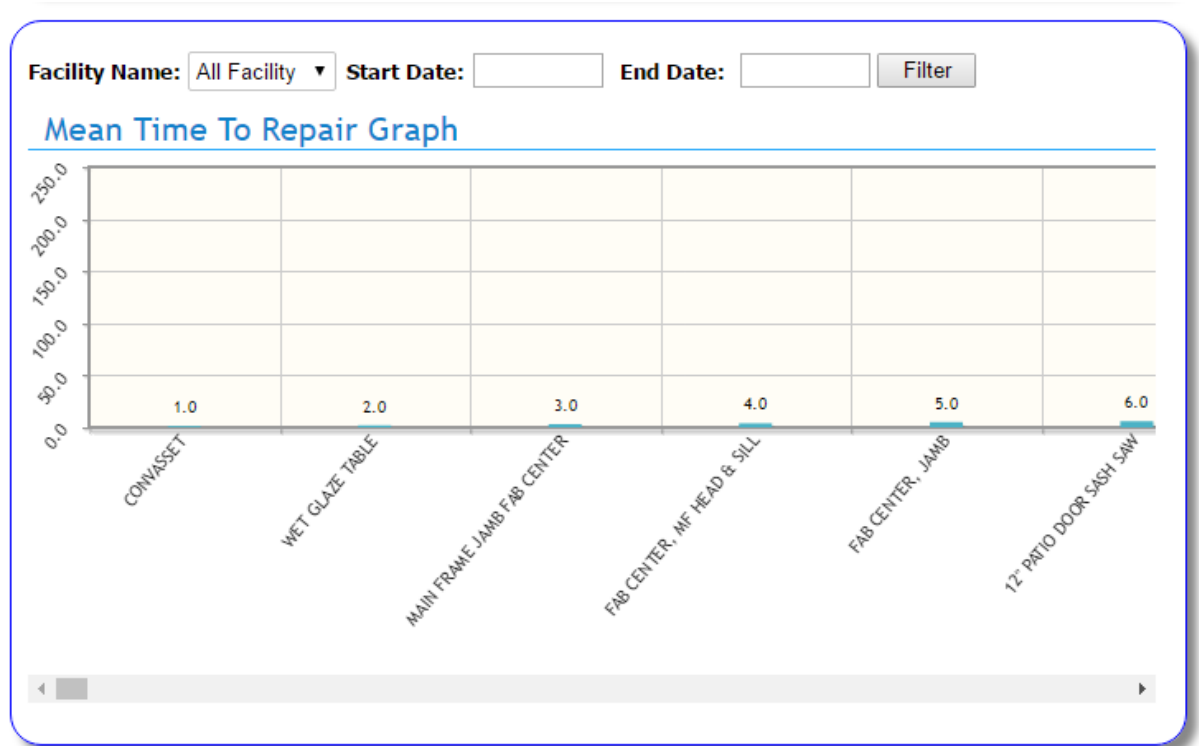
CLOSED WORK ORDER CAUSE

Work Order Number	Description	Work Order Type	Asset Name	Coordinator	Completion Date	Cause Number
20171206001	Booster pump not working	Demand/Maintenance		Thomas Steen	12/06/2017	Electrical
20171207094	L2 seal bucket not registering down	Demand/Maintenance		Michael Roeschli	12/07/2017	Electrical
20171215111	MV 7 printer	Demand/Maintenance		Cristian Garamendi	12/15/2017	Electrical
20171219001	Disconnect strain relief pulled out	Demand/Maintenance	Inspection Conveyor	Ron Meehan	12/18/2017	Electrical
20171219224	South 5K mixer	Demand/Maintenance	MIXER - 5K SOUTH	Shane Carter	12/19/2017	Electrical
20171225024	Lower static bar is shorting out	Demand/Maintenance	Domino D-Series Laser Coder #2	Michael Nerad	12/25/2017	Electrical
20171227051	repaired broken wires on E-stop of stick cutter #1	Demand/Maintenance	STICK CUTTER 1	Mike Owen	12/27/2017	Electrical
20180103053	Trouble shoot 463.5 mm cut off seal die head #105889917	Demand/Maintenance		Justin Blackburn	01/03/2018	Electrical
20180104015	Worked on 3 hand processing conveyor	Demand/Maintenance	ALPENA PLANT	Michael Lashwood	01/04/2018	Electrical
20180104066	Multivac 8 would close open and not advance.	Demand/Maintenance	MULTIVAC 8	Don Surrell	01/03/2018	Electrical
20180103089	Line 7 metal detector Reset and relearned product read. Tested detect to ensure metal detector works properly	Demand/Maintenance		Michael Nerad	01/03/2018	Electrical

Total Closed Work Orders: 15

Close

5) Mean Time to Repair Graph



The above chart shows the total hours spent on DM (Demand Work Orders) to repair the Assets.


There is also a drill down function available:

- 1. Closed Work Order List:** If you click on an Asset bar, it will show the details of all closed work orders associated with the selected Asset. The grid also has searching functionality with the ability to export data based on filters.

Root Cause Failure Graph

Mean Time between Failures Graph

Closed Work Order

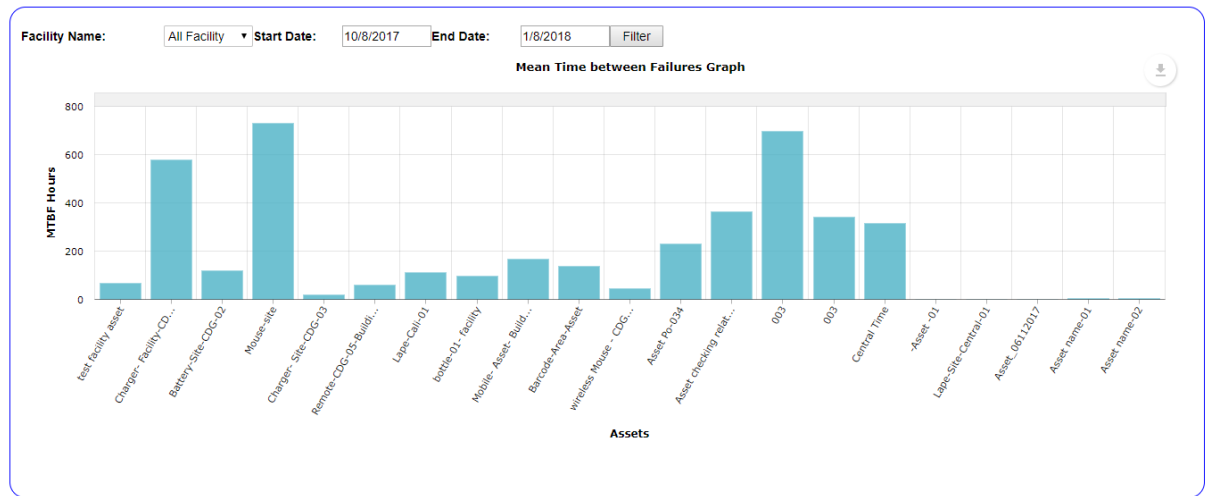


Work Order Number	Description	Work Order Type	Asset Name	Completion Date
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
20160909077	QUARTERLY PNEUMATIC DIE PM	PreventiveMaintenance	PNEUMATIC DIE	09/09/2016
20160909094	QUARTERLY PNEUMATIC DIE PM	PreventiveMaintenance	PNEUMATIC DIE	09/09/2016
20160909129	QUARTERLY PNEUMATIC DIE PM FOR 1600 LINE	DemandMaintenance	PNEUMATIC DIE	09/09/2016
20160909055	QUARTERLY PNEUMATIC DIE PM	DemandMaintenance	PNEUMATIC DIE	09/09/2016
20160909205	QUARTERLY PNEUMATIC DIE PM FOR 1600 LINE	DemandMaintenance	PNEUMATIC DIE	09/10/2016
20160913127	PM-PM QUARTERLY PNEUMATIC DIE FOR 1600 LINE	DemandMaintenance	PNEUMATIC DIE	09/23/2016

Total Closed Work Orders: 6

Close

6) Mean Time between Failure Graph



The above chart shows the total number of hours between Asset failures in relation their closed DM work orders

MTBF is the average amount of consecutive time difference between work order Activation Dates or service request Creation Dates and the work order Completion Date, OR just the Actual Downtime as recorded (if present).



There is also a drill down function available by clicking on the bars:

- 1. Closed Work Order List:** If you click on an Asset bar, it shows the details of all closed work order associated with the selected asset. The grid also has searching functionality with the ability to export data based on filters.

Root Cause Failure Graph

Mean Time between Failures Graph

Closed Work Order



Work Order Number	Description	Work Order Type	Asset Name	Completion Date
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
20160909077	QUARTERLY PNEUMATIC DIE PM	PreventiveMaintenance	PNEUMATIC DIE	09/09/2016
20160909094	QUARTERLY PNEUMATIC DIE PM	PreventiveMaintenance	PNEUMATIC DIE	09/09/2016
20160909129	QUARTERLY PNEUMATIC DIE PM FOR 1600 LINE	DemandMaintenance	PNEUMATIC DIE	09/09/2016
20160909055	QUARTERLY PNEUMATIC DIE PM	DemandMaintenance	PNEUMATIC DIE	09/09/2016
20160909205	QUARTERLY PNEUMATIC DIE PM FOR 1600 LINE	DemandMaintenance	PNEUMATIC DIE	09/10/2016
20160913127	PM-PM QUARTERLY PNEUMATIC DIE FOR 1600 LINE	DemandMaintenance	PNEUMATIC DIE	09/23/2016

Total Closed Work Orders: 6

Close

7) DM PM Total Costs by Month



The above graph shows the total amount of PM Labor Cost, PM Material Cost, PM Total Cost, DM Labor Cost, DM Material Cost, DM Total Cost, PM Contractor Total Cost and DM Contractor Total Cost by month.