

~ OEE Audit is now OEE Studio ~

A new look with a new set of tools!

We are expanding **OEE Audit** to provide integration with **OEE Alert** and some of our new products we plan to introduce in the near future.

To achieve this goal, we are renaming to **OEE Studio**.

OEE Studio gives you the tools to quickly access all your production data for multiple line, plants or even your entire enterprise.
 OEE Studio . . . the complete toolbox.
 Existing OEE Audit customers will get a free upgrade to OEE Studio.

# OEE Studio Release Note

#### Version 3.0

Deb-Tech Systems, Inc. & Production Improvement Systems Ltd. Debbie.Olk@DebTechSystems.com Russell@ProductionImprovement.com 847.854.3148

# What's New in 3.0

- New look and feel to make it easier to navigate Same awesome reporting capabilities.
- **Pivot Grids** now include the Enterprise and other device hierarchy settings for more robust reporting.
- Shift & Job Data Reporting
  - o Optionally highlight the OEE Values per row of data
  - Added cross hatching in the charts for non-OEE values
- **Creating Format Rules –** similar to Excel, you can add format rules to cells.
- User Defined Fields added currency type
- All Shift Production— 1-page At-A-Glance added ability to view by Line then by Shift and by Line only
- Integration with OEE Alert Your event comments are now available in a report in OEE Studio.
- **Favorites** Create favorite reports and launch from the Favorites dashboard.
- New Report Shift OEE Report one page per line, per shift
- **New Website** check it out!! www.oeestudio.com

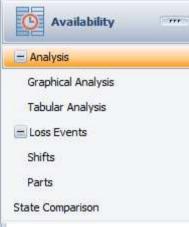
#### OEE Studio – New Look & Feel

#### VOEE Studio. Application Licensed t Mome rrr Dashboard About Favorites Analysis rer Trends \*\*\* Availability \*\*\* Performance err. × Quality \*\*\* Shift Data err Job Data \*\*\*

We have changed the look and feel of OEE Studio to make it easier to navigate through the tools.

The 3-dot ellipses next to the menu option will expand or collapse when you click on it.

The menu selections are grouped for ease in finding the reports.



#### Pivot Grid - Tabular - Hierarchy

					✓ Select	multiple values	to chart in	formatio	n		
Enterprise	Geo	graphic	Location Or	der Type	PlanningPlant	Plant	Region	Туре		>	
POOO					e seleccinarapie	values to charch	mormauon				
Order Type	Plar	ningPlant	Plant Type								
	1.2		510	9			-				
OEE Avai	lability	Performa	nce Quality	U.			Drop Colum	in Fielder	iere		
Enterprise	۵	Geographic	û Region	0 Loca	ation û	Device û		<b>a</b> 1	Availability	Performance	Quality
- VetiiGROUP M	1fa	- US	🖃 Midwest	- 0	Germantown, WI	1018_VFL1	OLL	76.8	76.8	100.0	
						1018_VFL2	1	47.7	63.3	75.4	
				Gern	nantown, WI Total	_		62,4	70.1	89.0	
					mlay City, MI	1014_VFL1		58.9	64.2	91.7	
						1014_VFL2		59.5	59.5	100.0	10
						1014_VFL3		42.5	55.6	76.4	10
				Imla	y City, MI Total			54.4	59.2	92.0	10
					Drrville, OH	1154_VFL1		53,1	64.7	82.2	10
						1154_VFL2		52.6	64.0	82.1	10
				Orry	ille, OH Total		_	52.9	64.3	82.2	10
					ihreve, OH	1016_VFL1		62.3	68.0	91.7	lane and the second second
						1016_VFL2		51.8	62.6	82.8	
						1016_VFL3		51,3	58.7	87.3	
					eve, OH Total			55.5	63.5	87.4	
			Midwest Tota					54.9	63.4	86.7	
			- Northeas		vondale, PA	1005_VFL1		38.7	55.2	70.0	1
						1005_VFL2		53.8	63.6	84.6	
				Avo	ndale, PA Total	1005_VFL3		51.9 46.1	70.7	73.4	
				Contraction of the local division of the loc	ebanon, CT	1004_VFL1		41.3	55.8	74.1	1
				12551	counterly of	1004_VFL1		56.2	68.7	81.8	1
						1004_VFL3		61.1	77.0	79.5	
						1004_VFL4		36.5	60.0	60.9	4
						1004_VFL5		54.5	63.1	86.7	1
				Leba	anon, CT Total			50.1	65.0	77.3	-
				1000000000	Oxford, PA	1001_VFL1		65.6	70.5	93.þ	10
						1001_VFL2		56.6	70.3	80.5	10
						1001_VFL3		36.5	64.3	56.7	10
				Oxfo	ord, PA Total		· · · · ·	53.0	68.4	77.4	10
				E Y	aphank, NY	1010_HAMER1		27.8	39.5	70.3	10
				4		1010_HAMER2		25.7	29.9	86.0	10
				Yan	nank, NY Total			26.7	34.7	77.1	10
				rapi	identity (11) Total			- Harry			

- Depending upon how we have your device hierarchy configured in the Data Collector, you can create a report with the various hierarchies.
- Typical device properties are Enterprise, Location, Type, Area, etc.
- Drag the element from the top of the screen to the Row Area.
- You can then expand or collapse by the different hierarchies

#### Pivot Grid – Grid Analysis - Hierarchy

bular Analysis Grid Ana	alysis	
a column header here	e to group l	
Device	Part	Herarchy Detail Shifts Measurables Enterprise Geographic Location Order Type PlanningPlant Plant Region Type Shift Start Time End Time Performance Quality OEE Availab
Tabular Ar	nalveir	Grid Analysis
	ndi y sia	
Enterpris	se	Geographic 0 Region 0 Location 0
		Hierarchy Detail
Enterp	rise	û Geogra û Region û Location û Device
🕨 🖃 En	tern	ise: VetiiGROUP Mfg Company OEE : 49.2, Performance : 80.7, Quality : 100.0, Availibility : 61.0
COLOR DESIGNATION		
	-	graphic: US OEE : 49.2, Performance : 80.7, Quality : 100.0, Availibility : 61.0
1000		Region: Midwest OEE : 54.9, Performance : 86.7, Quality : 100.0, Availibility : 63.4
		🛨 Location: Germantown, WI OEE : 62.4, Performance : 89.0, Quality : 100.0, Availibility : 70.1
-		🛨 Location: Imlay City, MI OEE : 54.4, Performance : 92.0, Quality : 100.0, Availibility : 59.2
		+ Location: Orrville, OH OEE : 52.9, Performance : 82.2, Quality : 100.0, Availibility : 64.3
	1	+ Location: Shreve, OH OEE : 55.5, Performance : 87.4, Quality : 100.0, Availibility : 63.5
-		Region: Northeast OEE : 46.0, Performance : 77.1, Quality : 99.9, Availibility : 59.7
	19	
100		± Location: Avondale, PA OEE : 46.1, Performance : 76.1, Quality : 100.0, Availibility : 60.6
		± Location: Lebanon, CT OEE : 50.1, Performance : 77.3, Quality : 99.9, Availibility : 65.0
		± Location: Oxford, PA OEE : 53.0, Performance : 77.4, Quality : 100.0, Availibility : 68.4
		+ Location: Yaphank, NY OEE : 26.7, Performance : 77.1, Quality : 100.0, Availibility : 34.7
	11-11	. ಆಗ್ರೆ ಪ್ರಶಸ್ತಿ ಸಂಶೋಧ ಗ್ರಾಂಶವರು ಕೊಡಲು ಸಾಮಾನ್ ಕೇಂದ್ರ ಪ್ರಶಸ್ತಿ ಕೊಡಲಾಗಿ ಕೊಡಲಾಗಿದ್ದ ಕೊಡಲಾಗಿದೆ. ಇದು ಸಂಶೇಶ ಕೊಡಲಾಗಿ ಕ ಕೊಡಲಾಗಿ ಕೊಡಲಾಗಿ

• Drag and drop the data elements based on how you want to see the data

### Shift & Job Data Reporting – Color your OEE

At the bottom of the **Shift** or **Job** Data Pivot Grids is an option to **Highlight OEE Values**. Selecting this will color highlight the OEE values within each row of data. Provides a very powerful visualization of the major KPI's.

Fabular Analysis	Grid Analysis							
				🖌 Sele	ect multiple values to ch	nart information		
Enterprise	Geographic	Order Type	Plann	ingPlant Plant	Region			
OEE Availa	ability Perf	ormance Q	uality		Drop Column Fields I	Here		
					Grand Total			
Location û	Device		Û	Shift û	OEE	Availability	Performance	Quality
- Oxford, PA	- 1001_VF	L1		First Shift	67.1	72.1	93.D	100.0
				Gap Shift	46.2	50.2	92.0	100.0
				Second Shift	68.2	73.3	93.1	100.0
	1001_VFL17	Fotal			65.6	70.5	93.D	100.0
	= 1001_VF	L2		First Shift	64.1	76.8	8 <u>3.4</u>	100.0
				Gap Shift	48.2	57.8	8β.4	100.0
				Second Shift	51.1	66.5	76.8	100.0
	1001_VFL21	Fotal			56.6	70.3	80.5	100.0
	= 1001_VF	L3		First Shift	39.9	68.4	58.4	100.0
				Gap Shift	29.4	48.4	60.8	100.0
				Second Shift	34.5	63.4	54.4	100.0
	1001_VFL31	Fotal			36.5	64.3	56.7	100.0
Oxford, PA Total					53.0	68.4	77.4	100.0

✓ Highlight OEE Values

#### Shift & Job Data Reporting – Color your OEE

In the **Grid Analysis** tab, you can sort the values to get a good visual of greatest to least.

Right-mouse click on the column heading you want to sort and select either Ascending or Descending.

Hie	erarchy Detail	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Shifts					M	easurables	
	Device	Shift	Start Time	End Time	OEE		Derformance		Quality	Availability
	1001_VFL1	Gap Shift	5/16/2015 2:00 AM	5/16/2015 6:00 AM			Sort Ascending	100.0	100.0	
ŝ.	1001_VFL1	First Shift	5/23/2015 6:00 AM	5/23/2015 2:30 PM		Z.	Sort Descending	100.0	100.0	
	1001_VFL1	Second Shift	5/21/2015 3:30 PM	5/22/2015 2:00 AM			Clear Sorting	100.0	100.0	
ł	1001_VFL2	First Shift	5/20/2015 5:00 AM	5/20/2015 3:30 PM		-	Group By This Column	100.0	100.0	
¥.	1001_VFL1	First Shift	5/22/2015 5:00 AM	5/22/2015 3:30 PM			Hide Group By Box	100.0	100.0	
A	1001_VFL2	First Shift	5/21/2015 5:00 AM	5/21/2015 3:30 PM			Terrent Contraction	100.0	100.0	
٩.	1001_VFL2	Second Shift	5/14/2015 3:30 PM	5/15/2015 2:00 AM		_	Hide This Column	100.0	100.0	
4	1001_VFL1	Second Shift	5/15/2015 3:30 PM	5/16/2015 2:00 AM			Column/Band Chooser	100.0	100.0	
4	1001_VFL2	Gap Shift	5/15/2015 2:00 AM	5/15/2015 5:00 AM		-	Best Fit	100.0	100.0	
4	1001_VFL2	First Shift	5/26/2015 5:00 AM	5/26/2015 3:30 PM		8	Filter Editor	100.0	100.0	
ł	1001_VFL2	Gap Shift	5/19/2015 2:00 AM	5/19/2015 5:00 AM			Show Find Panel	89.6	100.0	
I.	1001_VFL1	First Shift	5/21/2015 5:00 AM	5/21/2015 3:30 PM			Show Auto Filter Row	100.0	100.0	
¥.	1001_VFL2	Second Shift	5/25/2015 3:30 PM	5/26/2015 2:00 AM			2.4	100.0	100.0	
ł	1001_VFL1	Second Shift	5/22/2015 3:30 PM	5/23/2015 2:00 AM		8	32.0	100.0	100.0	
A	1001_VFL2	First Shift	5/19/2015 5:00 AM	5/19/2015 3:30 PM		8	30.7	100.0	100.0	
1	1001_VFL1	Second Shift	5/25/2015 3:30 PM	5/26/2015 2:00 AM			79.3	89.9	100.0	
۱.	1001_VFL1	Gap Shift	5/20/2015 2:00 AM	5/20/2015 5:00 AM			79.0	89.4	100.0	
L.	1001_VFL1	Second Shift	5/14/2015 3:30 PM	5/15/2015 2:00 AM			78.7	100.0	100.0	
R.	1001_VFL1	First Shift	5/19/2015 5:00 AM	5/19/2015 3:30 PM			77.8	100.0	100.0	
ų.	1001_VFL2	First Shift	5/23/2015 6:00 AM	5/23/2015 2:30 PM			77.3	83.9	100.0	
¥.	1001_VFL1	Second Shift	5/23/2015 2:30 PM	5/23/2015 11:00 PM			77.2	100.0	100.0	
1	1001 1001	THE OLIA	E DE DONE ELOS AN	FIDE DOALE DUDG DW			77 7 B	den	100.0	



veis Grid Analysis

### **Creating Format Rules**

	D1 Actual	57,504	0	0	49,264	53,584	60,880	45,488	266,720
	D1 OEE	83.20%	0.00%	0.00%	71.28%	77.53%	88.08%	65.81%	55.13%
	D2 Actual	62,192	512	0	68,994	67,696	65,568	66,560	331,522
	D2 OEE	74.47%	0.61%	0.00%	82.61%	81.06%	78.51%	79.70%	56.71%
How to get from this	D3 Actual	53,696	0	96	63,984	61,936	71,872	70,096	321,680
now to get nom this	D3 OEE	64.29%	0.00%	0.11%	76.61%	74.16%	86.06%	83.93%	55.02%
	D4 Actual	46,800	0	0	66,768	38,288	46,592	39,424	237,872
	D4 OEE	56.04%	0.00%	0.00%	79.95%	45.84%	55.79%	47.20%	40.69%
	D5 Actual	65,040	176	0	73,552	71,056	72,944	73,120	355,888
	D5 OEE	77.88%	0.21%	0.00%	88.07%	85.08%	87.34%	87.55%	60.88%
	Deckert Total	285,232	688	96	322,562	292,560	317,856	294,688	1,513,682
	Deckert OEE	71.02%	0.16%	0.02%	79.73%	72.69%	78.96%	73.06%	53.67%

To This!!

Good Count	OEE Down Time	Date 0																					
		7/24/2015			7/25/2015			7/26/2015			7/27/2015			7/28/2015			7/29/2015			7/30/2015			Grand Total
Туре О	Device 0	Good Count	OEE	Down Time	Good Count	OEE	Down Time	Good Count	OEE	Down Time	Good Count	OEE	Down Time	Good Count	OEE	Down Time	Good Count	OEE	Down Time	Good Count	OEE	Down Time	Good Count
= Deckert	Deckert1	57,504	83.2	2 02h 44m 09s	0	0.0	23h 59m 54s	0	0.0	23h 52m 03s	49,264	71.3	04h 33m 47s	53,584	77.5	03h 27m 02s	60,880	87.5	02h 04m 30s	28,944	62.8	03h 48m 42s	250,176
	Deckert2	62,192	74.4	1 04h 08m 20s	512	0.6	23h 49m 41s	0	0.0	23h 48m 17s	68,848	82.3	01h 35m 58s	67,696	81.0	02h 49m 08s	65,568	78.5	03h 25m 14s	45,440	81.5	02h 12m 53s	310,256
	Deckert3	53,696	64.2	05h 22m 42s	0	0.0	23h 59m 57s	96	0.1	23h 53m 24s	63,984	76.5	02h 49m 50s	61,936	74.1	03h 50m 43s	71,872	86.0	00h 49m 57s	45,296	81.3	01h 13m 40s	296,880
	Deckert4	46,800	56.0	08h 17m 35s	0	0.0	23h 59m 57s	0	0.0	23h 50m 14s	66,768	79.9	02h 12m 40s	38,288	45.8	10h 05m 09s	46,592	55.7	07h 05m 16s	32,128	57.6	04h 33m 42s	230,576
	Deckert5	65,040	77.8	03h 37m 23s	176	0.2	23h 59m 27s	0	0.0	23h 51m 24s	73,424	87.8	01h 14m 04s	71,056	85.0	01h 59m 02s	72,944	87.2	01h 36m 35s	49,072	88.0	00h 55m 25s	331,712
Deckert Total		285,232	71.1	24h 10m 09s	688	0.2	119h 48m 56s	96	0.0	119h 15m 22s	322,288	79.7	12h 26m 19s	292,560	72.7	22h 11m 04s	317,856	79.1	15h 01m 32s	200,880	74.6	12h 44m 22s	1,419,600
= SP	Scent-portable1	38,115	44.1	10h 36m 10s	0	0.0	23h 59m 57s	0	0.0	23h 59m 57s	53,430	61.8	05h 23m 15s	41,685	48.2	09h 12m 11s	13,565	15.7	18h 59m 52s	17,720	30.8	10h 03m 35s	164,515
	Scent-portable2	69,465	79.2	2 04h 59m 22s	275	0.3	23h 55m 24s	0	0.0	23h 59m 54s	58,175	66.8	07h 55m 14s	60,300	68.9	07h 28m 05s	76,205	86.6	03h 12m 42s	38,920	66.6	05h 20m 51s	303,340
SP Total		107,580	61.7	15h 35m 32s	275	0.2	47h 55m 21s	0	0.0	47h 59m 51s	111,605	64.3	13h 18m 29s	101,985	58.6	16h 40m 16s	89,770	51.2	22h 12m 34s	56,640	48.7	15h 24m 26s	467,855
Grand Total		392,812	68.5	5 39h 45m 41s	963	0.2	167h 44m 17s	96	0.0	167h 15m 13s	433,893	75.3	25h 44m 48s	394,545	68.7	38h 51m 20s	407,626	71.1	37h 14m 06s	257,520	67.2	28h 08m 48s	1,887,455

#### Format Rules

		7/26/2015				7/27/3	2015	;		
Е	Down Time	Good Count	OEE	Do	wn Time	Good	Cou	nt	OEE	Down Time
.0	23h 59m 54s	0	0.0		23h 52m 03s		49	,264	71.3	04h 33m 4
.6	23h 49m 41s	0	0.0		23h 48m 17s		68	,848	82.3	01h 35m 5
.0	23h 59m 57s	96	0.1		23h 53m 24s		63	,984	76.5	02h 49m 5
.0	23h 59m	Format Rules		<b>#</b>	Highlight Cell	Pules		768	79.9	02h 12m 4
.2	23h 59m 🚃	- Tormac Hales	~					424	87.8	01h 14m 0
.2	119h 48m 56s	96	0.0	t I	Top/Bottom R	ules		188	79.7	12h 26m 1
.0	23h 59m 57s	0	0.(		Data Bars		۲	430	61.8	05h 23m 1
.3	23h 55m 24s	0	0.(		Color Scales		۲	175	66.8	07h 55m 1
.2	47h 55m 21s	0	0.0		Icon Sets			i <mark>05</mark>	64.3	13h 18m 2
.2	167h 44m 17s	96	0.0	-				893	75.3	25h 44m 4
				5	Clear Rules		•			
				<b>.</b>	Manage Rules					

Right-mouse click on the cell you want to apply rules format.



Example of Icon Sets  $\rightarrow$ 

# **Applying Rules Formats**

Good Count	OEE	Date 0																
		7/27/2015		7/28/2015		7/29/2015		7/30/2015		7/31/2015		8/1/2015		8/2/2015		8/3/2015		8/4/2.
Type Û	Device 0	Good Count	OEE	Good Count	OEE	Good Count	OEE	Good Count	OEE	Good Count	OEE	Good Count	OEE	Good Count	OEE	Good Count	OEE	Good .
- Deckert	Deckert1	38,624	83.9	53,584	77.5	60,880	87.5	45,488	65.8	46,480	67.3	39,984	57.9	0	0.0	42,304	61.2	1
	Deckert2	47,664	85.5	67,696	81.0	65,568	78.5	66,560	79.6	63,536	76.0	62,768	75.1	32	0.0	68,896	82.4	
	Deckert3	45,472	81.6	61,936	74.1	71,872	86.0	70,096	83.8	65,872	78.8	65,248	78.1	0	0.0	65,840	78.8	
	Deckert4	45,360	81.4	38,288	45.8	46,592	55.7	39,424	47.2	62,768	75.1	60,944	72.9	272	0.3	51,920	62.1	
	Deckert5	48,976	87.9	Between							72.9	61,456	73.5	0	0.0	67,328	80.5	1
Deckert Total		226,096	84.1	Detricer							74.4	290,400	71.8	304	0.1	296,288	73.4	2
- SP	Scent-portable 1	36,535	63.4	Forma	t cells that a	re BETWEEN:					33.0	45,280	31.3	0	0.0	42,850	49.6	6
	Scent-portable 2	34,275	59.2								77.2	72,295	83.0	85	0.1	59,325	67.8	6
SP Total		70,810	61.3	60		And 69		with Bold Text		<b>X</b>	55.1	117,575	57.2	85	0.0	102,175	58.7	1
Grand Total		296,906	77.6		y only to spec			Bold Text Green Bol		1	68.9	407,975	67.8	389	0.1	398,463	69.2	4
							-	Green Te: Italic Text Red Bold Red Fill Red Fill Red Fill w Red Text Strikeout	with Green Te kt Text th Red Text		]							

After selecting Highlight Cell Rules, you can then select the rules you want to apply to those cells.

Once you have your report laid out like you want, you can Save the Layout and/or add it to your Favorites.

### How much are those 'NONE' events costing?

In the **Define New Fields** options on any of the Pivot Grid reports, you can now select the **Result Type** of **Currency**. The currency symbol displayed will default to your regional/language settings of your Windows operating system.

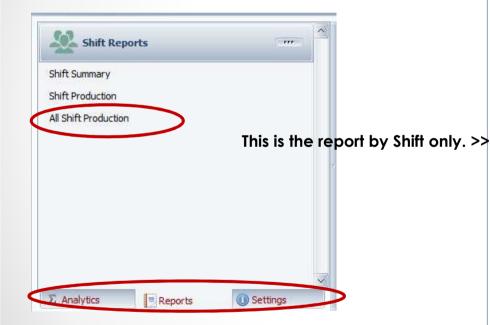
Options					
ield Description Cost of NONE	✓ Appen	d Summary Type			
esult Type OBoolean	🔘 Integer				
O Date/Time	C String				
Decimal	Currency				
Summary Type O Count	O Std Dev	of the values.			
© Sum	Std Dev P				
🔘 Min	🔘 Var				
Max	🔘 Var P				
Average					
	Cancel	d to Evorescion Editor >>			
		d to Expression Editor >>			
	Cancel Procee	d to Expression Editor >>			
		d to Expression Editor >> Duration Reason Cou	nt Drop Column Field	ds Here	
			nt Drop Column Field	ds Here	
				ds Here	Reason Count
	Cost of NONE	Duration Reason Cou	arand Total	Duration	
	Cost of NONE Device û	Duration Reason Cou	Grand Total Cost of NONE	Duration 17 17h 41m 34s	42
	Cost of NONE Device 0 - 1001_VFL1	Duration Reason Cou Reason None	Cost of NONE \$26,539.	Duration 17 17h 41m 34s 42 49h 49m 01s	42 145

### Reports – All Shift Production

I like to call this report - Line At-A-Glance.

This report shows you on 1-page how the line did as a whole and then how each shift did for the selected date range.

We have also included Good Count and Reject Count



OEE Studio. Application Licensed to Vetil Group (Global).

All Shift Production Summary for Location : Oxford, PA Device: 1001 VFL3, All Parts. First Shift, Gap Shift, Second Shift, Shift Undefined 5/14/2015 to 5/28/2015. OEE Includes Setup, Excludes Standby Total 🛛 Run Time 🛛 📰 Setup Time Downtime 🗾 Standby Time 25.00 % 0.00% 50.00 % 75.00 % 100.00 % Top 5 Downtime, Setup, Standby Events OEE State Reason Total Time Counts Availability : 64% Minimum Average Maximu Performance: 57% Down None 21h 43m 18s 105 00h 00m 00s 00h 12m 24s 04h 30m 07s Quality : 100% Down 0100 Roll Change 09h 28m 37s 48 00h 00m 00s 00h 11m 50s 00h 58m 56s 37% OEE : Standby Not Scheduled 09h 19m 03s 40 00h 00m 00s 00h 13m 58s 03h 33m 38s Good Ct : 159,533 Setup 0100 Setup/changeover 07h 57m 07s 45 00h 00m 16s 00h 10m 36s 00h 28m 46s Reject Ct: 0 Down 1300 Scalperhopper 13 00h 05m 14s 00h 32m 25s 01h 05m 28s 07h 01m 37s First Shift 🔲 Run Time 🛛 🔲 Setup Time Downtime 📃 Standby Time 0.00% 25.00 % 50.00 % 75.00 % 100.00 % Top 5 Downtime, Setup, Standby Events OFF Availability : 68% State Reason TotalTime Counts Minir Average num Maximum Performance: 58% Down None 06h 24m 17s 00h 00m 00s 01h 00m 56s 48 00h 08m 00s Quality : 100% Down 1320 Screen room convey 03h 48m 31s 9 00h 05m 43s 00h 25m 23s 00h 48m 15s OEE : 40% Down 1300 Scalperhopper 03h 20m 21s 8 00h 05m 14s 00h 25m 02s 01h 02m 00s Good Ct : 78,025 Down 1610 Stretch wrapper 03h 02m 14s 21 00h 04m 13s 00h 08m 40s 00h 21m 45s Reject Ct: 0 Down 1520 Bagger 02h 45m 19s 20 00h 00m 09s 00h 08m 15s 00h 33m 56s <u>Gap Shift</u> 🔲 Run Time 📃 Setup Time Downtime 🗾 Standby Time 25,00 % 0.00% 50.00 % 75.00 % 100.00 % Top 5 Downtime, Setup, Standby Events OFF Availability : 48% State Reason TotalTime Counts Minimum Average Maximum Performance: 61% Standby Not Scheduled 09h 19m 00s 12 00h 00m 13s 00h 46m 35s 03h 33m 38s Quality : 100% Down None 06h 02m 56s 12 00h 00m 00s 00h 30m 14s 02h 59m 22s OEE : 29% Down 1682 Top Sheet Dispense 04h 47m 59s 1 04h 47m 59s 04h 47m 59s 04h 47m 59s Good Ct : 11,017 Down 0100 Roll Change 5 00h 00m 00s 00h 06m 43s 00h 16m 59s 00h 33m 39s Reject Ct: 0 Down 1700 Feeder Low Level M 00h 32m 40s 1 00h 32m 40s 00h 32m 40s 00h 32m 40s Second Shift 📰 Run Time 🛛 📰 Setup Time Downtime 🗾 Standby Time 0.00% 25.00 % 50.00 % 75.00 % 100.00 % Top 5 Downtime, Setup, Standby Events OEE Availability : 63% State Reason TotalTime Counts Minimum Average Maximun Performance : 54% Down None 09h 16m 05s 45 00h 00m 00s 00h 12m 21s 04h 30m 07s 100% Ouality : Down 0100 Roll Change 08h 02m 19s 33 00h 03m 57s 00h 14m 36s 00h 58m 56s OEE : 35% Standby 0150Lunches 06h 30m 00s 13 00h 30m 00s 00h 30m 00s 00h 30m 00s Good Ct : 70,491 Setup 0100 Setup/changeover 05h 05m 02s 23 00h 00m 22s 00h 13m 15s 00h 28m 46s Reject Ct: 0 Down 1360 Finishing screen 04h 25m 53s 5 00h 04m 33s 00h 53m 10s 01h 29m 43s

#### Reports – All Shift Production - Different Options

#### All Shift Production Reporting

Hierarchy		Downtime calculation
Location	Oxford, PA	☐ Include Standby in Downtime ✓ Include Setup in Downtime
Date Range	Production Filters	
From 5/14/2015 💉 6:00 AM 🍰	Device 1001_VFL3	Show in Top Losses
To 5/28/2015 6:01 AM 2 Preset Dates Choose Preset	Part [All Parts]	<ul> <li>✓ Downtime Select specific</li> <li>✓ Setup event types or combination – defaults to all.</li> </ul>
Available Shifts	Report By	
First Shift Gap Shift Second Shift Shift Undefined	Shift only	shift contributes to the whole.
ect shift(s) for the report	Shift then Device     Print / Pri	eview
	5753 C	h líne and shíft(s) contríbutes t

After you click on the Print/Preview button, the Please Wait display will show you which lines and shifts are being processed.



#### Reports – All Shift Production – By Line Only

#### OEE Studio. Application Licensed to Vetii Group (Global).

All Shift Production Summary for Location : Lebanon, CT

All Devices, All Parts. First Shift, Second Shift

5/14/2015 to 5/28/2015. OEE Includes Setup, Excludes Standby.

	_	_				📔 📃 Ru	in Time 🛛 📰 Se	stup Time
						📃 🔳 Do	wntime 📒 St	andby Time
0.00 %		25.00 %	50.00 %	75.00 %	100.	00 %		
OEE				Top 5 Downtime, Setu	ıp, Stand	by Events		
Availability :	68%	State	Reason	Total Time	Counts	Minimum	Average	Maximum
Performance :		Down	None	147h 55m 25s	420	00h 00m 00s	00h 21m 07s	12h 00m 00s
Quality :	100%	Setup	0100 Setup/changeover	56h 04m 35s	121	00h 00m 00s	00h 27m 48s	09h 45m 58s
OEE :	52%	Down	0050 Start-up/shut-down	24h 41m 27s	82	00h 00m 00s	00h 18m 03s	08h 17m 44s
	004,099	Down	0350 Material Shortage	23h 28m 29s	74	00h 00m 00s	00h 19m 02s	08h 30m 00s
Reject Ct:	1,412	Down	1220 Preventive Mainten	18h 06m 55s	30	00h 00m 00s	00h 36m 13s	03h 28m 45s
				1004 VFL1				
						Ru	in Time 🔳 Se	tup Time
								andby Time
0.00 %		25.00 %	50.00 %	75,00 %	100	.00 %		
		20.00 70	30.00 %					
OEE Availability :	57%	State	Reason	Top 5 Downtime, Setu Total Time	p, Stand Counts	by Events Minimum	Average	Maximum
Performance :				32h 50m 56s	90	00h 00m 00s	00h 21m 53s	10h 17m 03s
Ouality :	100%	Down Down	None 0050 Start-up/shut-down	21h 21m 21s		00h 00m 00s	00h 21m 53s 00h 21m 43s	08h 17m 03s
OEE :	43%	Setup	0100 Setup/changeover	210 210 215 14h 52m 47s	39	00h 00m 00s	00h 21m 43s 00h 22m 53s	03h 30m 40s
	160,923	Down	0350 Material Shortage	14n 52m 47s 13h 11m 44s		00h 00m 01s 00h 03m 07s	00h 22m 55s 01h 19m 10s	03h 30m 40s 08h 30m 00s
		DOWIN	-					
	0	Down	1220 Preventive Mainten	08h 25m 32e	16		00h 31m 35e	02h 30m 15e
	0	Down	1220 Preventive Mainten	08h 25m 32s	16	00h 00m 00s	00h 31m 35s	02h 30m 15s
	0	Down	1220 Preventive Mainten	08h 25m 32s 1004_VFL2	16			
Reject Ct:	0	Down	1220 Preventive Mainten		16	Ru	in Time 🗾 Se	etup Time
		Down 25.00 %	1220 Preventive Mainten			Ru	in Time 🗾 Se	
Reject Ct:				1004 VFL2	100.	00 %	in Time 🗾 Se	etup Time
Reject Ct:		25.00 %		1004 VFL2 75.00 %	100.	00 %	in Time 🗾 Se	etup Time
Reject Ct: 0.00 % OEE Availability : Performance :	71% 81%	25.00 %	50.00 %	1004 VFL2 75.00 %	100.	Do 00 %	in Time 📕 Se wintime 📒 St	etup Time andby Time
Reject Ct: 0.00 % OEE Availability : Performance : Quality :	71% 81% 100%	25.00 %	50.00 %	1004 VFL2 75.00 % Top 5 Downtime, Setu Total Time	100. p, Stand Counts	00 % by Events Minimum	in Time Se wintime St Average	etup Time andby Time Maximum 06h 59m 43s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE :	71% 81% 100% 58%	25.00 % State	50.00 % Reason None	1004 VFL2 75.00 % Top 5 Downtime, Sett Total Time 27h 38m 44s	100. 100. <b>De Stand</b> Counts 106 9	00 %	In Time Se wintime St Average 00h 15m 38s	etup Time andby Time <b>Maximum</b>
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE : Good Ct :	71% 81% 100% 58% 235,567	25.00 % State Down Setup	50.00 % Reason None 0100 Setup/changeover	1004 VFL2 75.00 % Top 5 Downtime, Sett Total Time 27h 38m 44s 16h 25m 05s	100. <b>p, Stand</b> <b>Counts</b> 106 9 9	00 % by Events Minimum 00h 00m 00s 00h 00m 00s	In Time Se wuntime St Average 00h 15m 38s 01h 49m 27s	etup Time andby Time Maximum 06h 59m 43s 07h 08m 12s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE :	71% 81% 100% 58%	25.00 % State Down Setup Down	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten	1004 VFL2 75.00 % Top 5 Downtime, Sette Total Time 27h 38m 44 16h 25m 05s 05h 25m 25s	100. <b>p, Stand</b> <b>Counts</b> 106 9 9	by Events Minimum 000 00s 00h 00m 00s 00h 00m 10s	In Time Se wintime St Average 00h 15m 38s 01h 49m 27s 00h 36m 09s	tup Time andby Time Maximum 06h 59m 43s 07h 08m 12s 03h 28m 45s 03h 37m 58s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE : Good Ct :	71% 81% 100% 58% 235,567	25.00 % State Down Setup Down Down	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture	1004 VFL2 75.00 % Top 5 Downtime, Setu Total Time 27h 38m 44s 16h 25m 05s 05h 25m 25s 05h 25m 25s 05h 35m 38s	100. <b>p, Stand</b> <b>Counts</b> 106 9 9 2	by Events Minimum 00h 00m 00s 00h 00m 00s 00h 00m 10s 00h 00m 10s	In Time Se wintime St Average 00h 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s	Maximum 06h 59m 43s 07h 08m 12s 03h 28m 45s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE : Good Ct :	71% 81% 100% 58% 235,567	25.00 % State Down Setup Down Down	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture	1004 VFL2 75.00 % Top 5 Downtime, Seta Total Time 27h 38m 44s 16h 25m 05s 05h 25m 05s 03h 58m 38s 02h 25m 48s	100. <b>p, Stand</b> <b>Counts</b> 106 9 9 2	00 %           by Events           Minimum           00h 00m 00s	In Time 54 wwntime 54 00h 15m 38s 01h 49m 27s 01h 36m 09s 01h 59m 19s 00h 09m 43s	tup Time andby Time Maximum 06h 59m 43s 07h 08m 12s 03h 28m 45s 03h 37m 58s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE : Good Ct :	71% 81% 100% 58% 235,567	25.00 % State Down Setup Down Down	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture	1004 VFL2 75.00 % Top 5 Downtime, Seta Total Time 27h 38m 44s 16h 25m 05s 05h 25m 05s 03h 58m 38s 02h 25m 48s	100. <b>p, Stand</b> <b>Counts</b> 106 9 9 2	Comparison of the second	Average 00h 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s 00h 09m 43s	Maximum 06h 59m 43s 07h 08m 12s 03h 28m 45s 03h 37m 58s 00h 46m 32s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE : Good Ct :	71% 81% 100% 58% 235,567 0	25.00 % State Down Setup Down Down	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture	1004 VFL2 75.00 % Top 5 Downtime, Seta Total Time 27h 38m 44s 16h 25m 05s 05h 25m 05s 03h 58m 38s 02h 25m 48s	100. <b>IDP, Stand</b> <b>Counts</b> 106 9 9 2 15	Comparison of the second	Average 00h 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s 00h 09m 43s	Maximum 06h 59m 43s 07h 08m 12s 03h 32m 58s 03h 37m 58s 00h 46m 32s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : GEE : Good Ct : Reject Ct :	71% 81% 100% 58% 235,567 0	25.00 % State Down Setup Down Down Down	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture 0350 Material Shortage	1004 VFL2 75.00 % Top 5 Downtime, Setu 27h 38m 44s 16h 25m 05s 05h 25m 25s 03h 58m 34s 02h 25m 48s 02h 25m 48s 1004 VFL3	100. <b>pp, Stand</b> <b>Counts</b> 106 9 9 2 15 100.	00 %           by Events           00h 00m 00s           00h 00m 00s           00h 00m 10s           00h 00m 10s           00h 00m 39s           00h 00m 39s	Average 00h 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s 00h 09m 43s	Maximum 06h 59m 43s 07h 08m 12s 03h 32m 58s 03h 37m 58s 00h 46m 32s
Reject Ct: 0.00 % OEE Availability : Quality : OEE : Good Ct : Reject Ct: 0.00 %	71% 81% 100% 58% 235,567 0	25.00 % State Down Down Down Down 25.00 %	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture 0350 Material Shortage	1004 VFL2 75.00 % Top 5 Downtime, Sett 705 5 Downtime, Sett 27h 38m 44s 16h 25m 05s 05h 25m 25s 03h 58m 38s 02h 25m 48s 1004 VFL3	100. 100. 106 9 9 2 15 100. 100. 100. 100.	00 %           by Events           00h 00m 00s           00h 00m 00s           00h 00m 10s           00h 00m 10s           00h 00m 39s           00h 00m 39s	Average 00h 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s 00h 09m 43s	Maximum 06h 59m 43s 07h 08m 12s 03h 32m 58s 03h 37m 58s 00h 46m 32s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : QEE : Good Ct : Reject Ct: 0.00 % OEE Availability :	71% 81% 100% 58% 235,567 0 83%	25.00 % State Down Down Down Down 25.00 % State	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture 0350 Material Shortage 50.00 % Reason	1004 VFL2 75.00 % Top 5 Downtime, Setu Total Time 27h 38m 44 27h 38m 44 25m 05s 05h 25m 25s 03h 58m 38s 02h 25m 48s 02h 25m 48s 1004 VFL3 1004 VFL3	100. <b>p, Stand</b> 106 9 2 15 100. <b>ip, Stand</b> <b>Counts</b>	by Events Minimum Oth OOm OOs OOh OOm OOs OOh OOm IOs OOh OOM IOS	In Time St wwntime St Oth 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s 00h 09m 43s In Time St St Average	Aup Time andby Time Maximum 06h 59m 43s 07h 08m 12s 03h 28m 45s 03h 28m 45s 03h 28m 45s 03h 28m 45s 03h 37m 58s 00h 46m 32s tup Time andby Time Maximum
Contemporation of the second s	71% 81% 100% 58% 235,567 0 83%	25.00 % State Down Down Down Down 25.00 % State	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture 0350 Material Shortage 50.00 % Reason None	1004 VFL2 75.00 % Top 5 Downtime, Setu 27h 38m 44s 16h 25m 05s 03h 58m 34s 02h 25m 48s 02h 25m 48s 02h 25m 48s 1004 VFL3	100. <b>p, Stand</b> 106 9 9 2 15 100. <b>p, Stand</b> <b>Counts</b> 72	00 %           by Events           Minimum           00h 00m 00s           00h 00s	In Time St wwntime St Oth 15m 38s Oth 49m 27s Oth 36m 09s Oth 59m 19s Oth 09m 43s	Auge         Time           andby Time         06h 59m 43s           07h 08m 12s         03h 28m 45s           03h 37m 58s         00h 46m 32s           etup Time         andby Time           andby Time         2bd 24m 13s           02h 24m 13s         02h 24m 13s
Reject Ct: 0.00 % OEE Availability : Quality : Quality : GEE : Good Ct : Reject Ct: 0.00 % OEE	71% 81% 100% 58% 235,567 0 83% 79%	25.00 % State Down Setup Down Down Down 25.00 %	50.00 %  Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture 0350 Material Shortage 50.00 %  Reason None 0350 Material Shortage	1004 VFL2 75.00 % Top 5 Downtime, Setu 27h 38m 44 16h 25m 05s 05h 25m 25s 03h 58m 38s 02h 25m 48s 1004 VFL3 1004 VFL3	100. <b>Counts</b> 106 9 9 2 15 100. <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b> <b>IDD</b>	Comparison of the second	In Time Sc wwntime St Oth 15m 38s Oth 49m 27s Oth 36m 09s Oth 39m 19s Oth 09m 43s In Time Sc wwntime St Average Oth 08m 11s	Haximum           06h 59m 43s           07h 08m 12s           03h 28m 45s           03h 28m 45s           00h 46m 32s           etup Time           andby Time           02h 24m 13s           02h 24m 13s           005h 54m 33s
Reject Ct: 0.00 % OEE Availability : Performance : Quality : OEE : 0.00 % OEE Availability : OEE Quality : OEE Quality :	71% 81% 100% 58% 235,567 0 83% 79% 100%	25.00 % State Down Setup Down Down Down 25.00 %	50.00 % Reason None 0100 Setup/changeover 1220 Preventive Mainten 1640 Air line Moisture 0350 Material Shortage 50.00 % Reason None	1004 VFL2 75.00 % Top 5 Downtime, Setu 27h 38m 44s 16h 25m 05s 05h 25m 25s 03h 58m 38s 02h 25m 48s 1004 VFL3 75.00 % Top 5 Downtime, Setu Total Time 09h 49m 40s 06h 12m 49s	100. <b>p, Stand</b> 106 9 9 2 15 100. <b>p, Stand</b> <b>Counts</b> 72 44 3	by Events Minimum Ooh Oom Oos Ooh Oom Oos	Average 00h 15m 38s 01h 49m 27s 00h 36m 09s 01h 59m 19s 00h 09m 43s m Time 5s St Average 00h 08m 11s 00h 08m 11s 00h 08m 28s	Aug         Time           andby Time         Maximum           06h 59m 432         03h 28m 455           03h 28m 455         00h 46m 32s           00h 46m 32s         00h 46m 32s           xtup Time         andby Time

OEE Studio. Application Licensed to Vetii Group (Global).

#### All Shift Production Summary for Location : Lebanon, CT

All Devices, All Parts, First Shift, Second Shift

5/14/2015 to 5/28/2015. OEE Includes Setup, Excludes Standby.

			1	.004 VFL4				
								etup Time andby Time
0.00 %		25.00 %	50.00 %	75.00 %	100.	00 %		
OEE			Τα	p 5 Downtime, Setu	ıp, Stand	by Events		
Availability :	61%	State	Reason	Total Time	Counts	Minimum	Average	Maximum
Performance	60%	Down	None	44h 28m 53s	87	00h 00m 00s	00h 30m 40s	12h 00m 00s
Quality :	100%	Setup	0100 Setup/changeover	12h 51m 58s	19	00h 00m 36s	00h 40m 37s	09h 45m 58s
OEE :	37%	Down	1600 Palletizer	12h 07m 01s	16	00h 00m 00s	00h 45m 26s	06h 33m 10:
	142,419	Down	1630 Compressor Failure	05h 54m 27s	5	00h 04m 44s	01h 10m 53s	03h 39m 58s
Reject Ct:	366	Down	1520 Bagger	02h 46m 12s	21	00h 00m 00s	00h 07m 54s	00h 17m 03:
			1	004 VFL5				
								etup Time andby Time
0.00 %		25.00 %	50.00 %	75.00 %	100.	00 %		
OEE			Τα	p 5 Downtime, Setu	ıp, Stand	by Events		
Availability :	67%	State	Reason	Total Time	Counts	Minimum	Average	Maximum
Performance	88%	Down	None	33h 07m 12s	65	00h 00m 00s	00h 30m 34s	11h 59m 59
Quality :	100%	Setup	0100 Setup/changeover	10h 39m 56s	41	00h 00m 00s	00h 15m 36s	04h 25m 58s
OEE :	59%	Down	1700 Feeder Low Level M	09h 53m 56s	30	00h 00m 00s	00h 19m 47s	01h 57m 49s
Good Ct :	227,939	Down	0300 Associate Meetings	08h 14m 59s	8	00h 06m 01s	01h 01m 52s	06h 47m 53
Reject Ct:	753	Down	1630 Compressor Failure	05h 32m 10s	5	00h 00m 00s	01h 06m 26s	03h 40m 13s

### This report helps you to compare all lines.

### Integration with OEE Alert

In OEE Alert (Actions – Set Comment) you can change reason codes for any production event. You can also add comments to each event.

The reason code change and the comments are saved to the database and are available through OEE Studio reporting.

VISU	ALIZII	NG DATA	CO	MMEN	ITS					OEEAI	_ERT <b>)))</b>
Home	Views	▼ Filters	•	Actions	▼ Setup	▼ Info	•				
Active filters	: Date range:	Fixed : Mon Feb 23, 2	2015 12:00	AM - Tue Mar 03	<u>, 2015 11:30 AM</u> , D	ate: <u>Fri Mar 06, 20</u>	<u>15</u> , Category: ]	erritory:Territory 2			
Select	Category:	Territory: Territory 2	•	Asset:	SSL45	T			03/04/2015	0	
Select Category,	Asset and Date, t	nen click on a timeline event,	shift or job to p	ovide context for your	comment, or to update re	ason text (events only).					
Event	ID:	52775		Start time:	Wed Mar 04 2015 09:	46 AM			Include Event Tir	neline 🗷	
	State:	Down		Reason	Adjustment	•			Include Aud	it Info 🔲	
								8			
	save										
Third Shift M727870 - 2532 Event timel	ine		First Sh	π	Reason: Adjustme Start: Wed Mar 04 Duration: 1:50:57 ( Comment: Infeed	h:mm:ss)			Third Shift		
Start Time	045 40 45 65 5	Duration	State	Reason Code		Comment				A	
	015 10:45:00 F			13	No Operator						
vved Mar 04 2	015 10:30:00 F	M 0:00:00.02	Down	13	No Operator						

### Integration with OEE Alert

In **Availability – Tabular Analysis – Grid Analysis** you can include the comments that were added to each event through OEE Alert.

This is very useful when performing Root Cause Analysis. In this example, I filtered for all Down reasons that began with 'EM'. Now I can export this to excel for further analysis or print as is to analyze the comments.

	header h	nere to gro	oup by tha	t column				
	re	Y Type	State	Start Time	End Time	Duration	Reason	7 Comment
	est Wing		Down	6/18/2015 2:09 AM	6/18/2015 2:13 AM	00h 04m 03s	EM Wait Shift	Enviromental in the core
	Choose Preset	×		15 2:33 AM	6/18/2015 2:40 AM	00h 06m 49s	EM Wait Shift	EM leaving their carts in front of SICK eyes.
O Availability "	Tabular analysis	Grid An	aburta	15 1:50 AM	6/18/2015 1:57 AM	00h 06m 30s	EM Wait Shift	
	Tabaiai Calysis	GHU AN	icity SIS	15 4:48 PM	6/18/2015 4:57 PM	00h 09m 30s	EM Wait Shift	
= Analysis	Enterprise	Busines	ss Unit	Core 15 3:55 PM	6/18/2015 3:58 PM	00h 03m 15s	EM Wait Shift	OUTFEED CRASH ON ME
Complete Applycis				15 4:20 PM	6/18/2015 4:25 PM	00h 05m 33s	EM Wait Shift	adjusting seal station
	Duration			15 4:36 PM	6/18/2015 4:39 PM	00h 03m 31s	EM Wait Shift	
Tabular Analysis	Device		0	Loss Reas	6/19/2015 12:02 AM	00h 03m 38s	EM Alarm Clr	
= Loss Events				15 2:21 AM	6/19/2015 2:23 AM	00h 02m 11s	EM Alarm Clr	Changing Fallout plates
	Grand Total est Wing	Fill	Down	6/19/2015 4:49 AM	6/19/2015 4:53 AM	00h 03m 44s	EM Alarm Clr	Infeed Jam
	est Wing	Fill	Down	6/18/2015 6:23 PM	6/18/2015 6:27 PM	00h 04m 07s	EM Alarm Clr	Changing Fallout plates caused a red light waiting on EM to clear
	est Wing	Fill	Down	6/18/2015 8:23 PM	6/18/2015 8:26 PM	00h 02m 50s	EM Alarm Clr	swap out hepa cart
	est Wing	Fill	Down	6/18/2015 10:25 PM	6/18/2015 10:28 PM	00h 02m 41s	EM Alarm Clr	red light , changing plates
	est Wing	Fill	Down	6/19/2015 1:29 AM	6/19/2015 2:17 AM	00h 48m 18s	EM Wait Shift	Changed out dosing container carrier transport bearing. Corrective intervention #25
	est Wing	Fill	Down	6/19/2015 3:03 AM	6/19/2015 3:22 AM	00h 18m 40s	EM Wait Shift	EM performing monitering air's / Attendant changing Core Plates.
	est Wing	Fill	Down	6/19/2015 3:26 AM	6/19/2015 3:26 AM	00h 00m 41s	EM Wait Shift	
	A	Fill	Down	6/18/2015 10:20 PM	6/18/2015 10:20 PM	00h 00m 14s	EM Alarm Clr	waiting on m15
	A	Fill	Down	6/18/2015 10:37 PM	6/18/2015 10:48 PM	00h 10m 53s	EM Alarm Clr	Safety Presentation and lunch
	est Wing	Fill	Down	6/19/2015 7:52 AM	6/19/2015 8:40 AM	00h 47m 44s	EM Wait Shift	Glass breaking
	est Wing	Fill	Down	6/19/2015 8:01 AM	6/19/2015 8:15 AM	00h 14m 19s	EM Wait Shift	EM in the core monitoring
	est Wing	Fill	Down	6/19/2015 8:25 AM	6/19/2015 8:25 AM	00h 00m 27s	EM Wait Shift	
	est Wing	Fill	Down	6/19/2015 8:56 AM	6/19/2015 9:02 AM	00h 05m 24s	EM Wait Shift	Waiting on sanitation and post cleans after corridor remediation. Could not pull stoppers out of the pass through until post cleans were complete
	est Wing	Fill	Down	6/20/2015 1:08 AM	6/20/2015 3:14 AM	02h 06m 18s	EM Wait Shift	Spo had to go out to change his glove.
	est Wing	Fill	Down	6/20/2015 1:08 AM	6/20/2015 3:09 AM	02h 01m 27s	EM Wait Shift	Changed out needle tip cleat #2.
	est Wing	Fill	Down	6/20/2015 9:42 AM	6/20/2015 9:42 AM	00h 00m 10s	EM Wait Shift	Short staffed. Had to send two attendants into the core to clean and mop Lyo SPO's out after Lyo 8 adjustments.
	est Wing	Fill	Down	6/20/2015 6:53 AM	6/20/2015 7:04 AM	00h 10m 35s	EM Wait Shift	Environmental monitoring isolator
	est Wing	Fill	Down	6/20/2015 8:13 AM	6/20/2015 8:22 AM	00h 08m 56s	EM Wait Shift	em in core
	est Wing	Fill	Down	6/20/2015 8:32 AM	6/20/2015 8:43 AM	00h 10m 17s	EM Wait Shift	Performing EOR MIT
	est Wing	Fill	Down	6/20/2015 9:02 AM	6/20/2015 9:09 AM	00h 06m 58s	EM Wait Shift	em core aires
	est Winn	Fill	Down.	6/20/2015 9:38 AM	6/20/2015 9:41 AM	00h 02m 35s	EM Wait Shift	m16 attendant changing plates in core
				015 7:48 AM	6/20/2015 7:54 AM	00h 05m 32s	EM Wait Shift	

#### NEW ~ Favorite Reports

Home		Saved Favorites			
177 Indite		Show Availability - Tabular 🗖 🗙	Show Loss Events - Shift 🗖 🗙	Show Shift Analysis 🗖 🗙	Show OEE Gains
Dashboard		Availability - Tabular VetiGROUP Mfg Company Current Week	Loss Events - Cost VetiGROUP Mfg Company Current Week	1001-ProductionReport Oxford, PA - 07/22/15	OEE Gains - By Location VetiGROUP Mfg Company Current Week
Favorites		Current week	Current week	Previous 2 Days	Current week
Analysis					
0		Show Loss Events - Shift 🗖 🗶	Show Availability - Tabular 🗖 🗶		
$\int^{\Lambda}$ Trends		Loss Events - Shift - Setup Costs VetiiGROUP Mfg Company	Availability - Graphical-top 5 VetiGROUP Mfg Company		
Availability		Current Week	Current Week		
(G) Performance					
<b>U</b>	-	Show OEE Gains 🗖 🗙			
Quality	T	OEE Gains- by location VetiGROUP Mfg Company-07/22/15	-		
Shift Data		Current Week			
🤽 Job Data	Tere				

- The Favorites Dashboard lets you see all of the reports that you have saved as a favorite.
- You can launch the report from this dashboard, make a few parameter changes and refresh the report.

#### NEW ~ Favorite Reports

Show Availability - Tabular 🗖 🗙	Show Loss Events - Shift 🗖 🗶	Show Shift Analysis 🗖 🗙
Availability - Tabular VetiGROUP Mfg Company Current Week	Loss Events - Cost VetiGROUP Mfg Company Current Week	1001-ProductionReport Oxford, PA - 07/22/15 Previous 2 Days
Show Loss Events - Shift 🗖 🗶	Show Availability - Tabular	
Loss Events - Shift - Setup Costs VetiGROUP Mfg Company Current Week	Availability - Graphical-top 5 VetigROUP Mfg Company Current Week	-
Show OEE Gains 🗖 🗙		
UUE VetiGROUP Mfg Company-07/22/15 Current Week		
		Show OEE Gains  OEE Gains - By Location VetiGROUP Mfg Company Current Week

- You can move the report tiles around on the screen.
- Drag the favorite to where you want it to appear. The colored box shows you where the report will land when you let go of the mouse.

# Add To Favorites

At the top right of every screen is a button that lets you Add the report to your Favorites.

DEE Trend Hierarchy				
	VetiiGROUP Mfg Company	Downtime calculation Include Standby in Downtime	Display OEE Performance	
Date Range	Production Filters	✓ Include Setup in Downtime	V Availability V Quality	
From 5/14/2015 🔛 6:00 AM 🍰	Shift [All Shifts]	Data Indicators		
To 5/28/2015 💉 6:01 AM 🚖	Device [All Devices]	Trend Line (Regression)	S Apply / Refresh	
Preset Dates Choose Preset	Part [All Parts]	Averane Simple St	2 Data Points Print / Export	
Choose Preset	7	Show Target line 50 😿 %		Add to

First, set up the report parameters, such as specific Hierarchy, Production Filters, etc.

Then click on the Add to Favorites button.

# Add to Favorites

Hierarchy		Downtime calculation
Location	ebanon, CT	Include Standby in Downtime
Date Range	Production Filters	Include Setup in Downtime
From 5/14/2015 🛛 6:00 AM 🗘	Device 1004_VFL5	Show in Top Losses
To 5/28/2015 🖌 6:01 AM 🌲	Part [All Parts]	Designed and the second s
Preset Dates		Type in additional information in th
Choose Preset		Description.
Available Shifts	Report By	
First Shift		Add o Favorites
First Shift WE Gap Shift	Shift only	Identification
Second Shift	Shift then Device	review Title All Shift Production Summary Report-no standby
Shift Undefined		Lebanon, CT
	O Device then Shift	1004_VFL5 Description First Shift
	Device only	
	O Device only	
		Date Range
		Range 1 📄 🔿 Day(s) 💿 Week(s)
Select the Range for	either Day (s) or Week (s).	Available To  All Users  Just Me
5 (		
Colortton	nake the report Available to A	OK Cancel
	1	
or Just you	arseit.	Show All Shift Production Summary Report 🗖 🗙
		All Shift Production Summary Report-no standby Current Week
		Lebanon, CT 1004_VFL5
		First Shift
•		

# Launch Your Favorite Report

Saved Favorites		
Show Year to Date OEE	Show OEE Gains 🗖 🗙	Show OEE Trend 🗖 🗙
Year to Date OEE-Grp by Date Current Week VetiiGROUP Mfg Company	OEE Gains-No Q This quarter Previous 3 Weeks VetiiGROUP Mfg Company	OEE Trend -No P or Q Current Week VetiiGROUP Mfg Company
Show Shift Analysis 🗖 🗙	Show Shift Analysis 🗖 🗙	
Shift Analysis-Full Production Report Current Week VetiiGROUP Mfg Company	Shift Analysis-2 weeks Previous 2 Weeks Lebanon, CT	
Show Job Analysis	Show Job Analysis 🗖 🗙	Show Job Analysis 🗖 🗙
Job Analysis-ProductShift Report Jobs Current Week Lebanon, CT	Job Analysis-Alt Job Report Current Week Lebanon, CT	Job Analysis-Grid Analysis HierarchyDetail Current Week VetiiGROUP Mfg Company
Show Job Analysis  Show Job Analysis Job Analysis-LebanonCT-Shift Good Count 1 day Current Day Lebanon, CT	report that you wan	at the top of the Favorite t to view. ur report, with the saved
	parameters.	ar report, what are saved

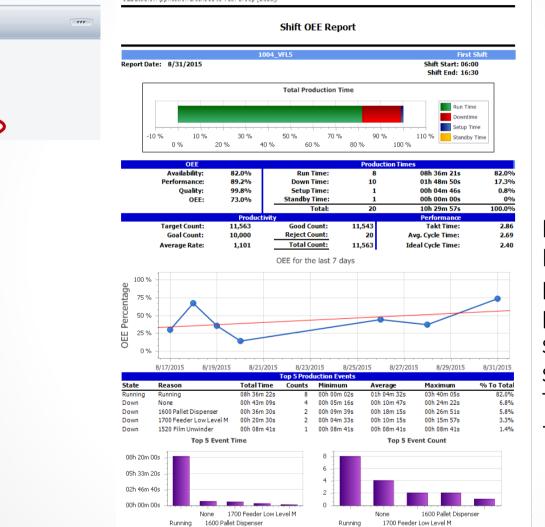
Click the Apply/Refresh button to view the data.

# View your Favorite Report

Job Comparison			
Hierarchy		Downtime calculation	Favorit
Location	Lebanon, CT	Include Standby in Downtime Include Setup in Downtime	
Date Range	Production Filters		Press here to return to your saved favorites
From 5/27/2015 🔛 6:00 Al		Apply / Refresh	
To 5/28/2015 S 6:01 A	M 💮 Part [All Parts]	Print / Export	▲ ▲
Choose Preset 🛛 🔛			
Tahular Analysis Grid Analysis			
			💐 Add to Favorites

To go back to the Favorites home page, click on the "Press here to return to your saved favorites".

# Shift OEE Report



#### New Report ~

Prints one page per line, per shift providing a good summary for the shift with an OEE Trend graph for the last 7 days.

Shift Reports

Shift Production

All Shift Production

Production

Shift Summary

Shift OEE

#### OEE Studio v 3.0

# In order to support the new Vorne v1.3.x firmware, you must upgrade to the latest

XL Bolt-on Data Collector version 1.8.4

http://www.sulzerconsulting.com/downloads/vorne/XL Bolt-On Data Collector.zip

# Version 3.0 of OEE Studio supports all versions of Vorne XL device firmware.

**Smart Installation** 

http://oeestudio.com/installs/release/v3/setup/InstallOEEStudio.exe

If you have questions or need assistance, please contact either Debbie Olk (OEE Studio, OEE Alert or custom reports) Debbie.olk@debtechsystems.com

> or Jim Sulzer (XL Bolt-On Data Collector). jim@sulzerconsulting.com

#### OEE Studio v3.0

OEE Studio version 3.0 is available for upgrade.

If you have an older version that was manually installed, please uninstall that version of OEE Audit before installing this version of OEE Studio. This can be determined by looking at the bottom right of the OEE Audit software.

System	- Cor	nfirmation	
Connection and License System Information		A new version of OEE Studio is av	ailable. Do you want to upgrade now?
Check for Updates		Yes	No
V Defaults		Date Range	Production Filters
Oefaults General Defaults		Date Range From 5/18/2015 💉 6:00 AM 🚖	Production Filters Shift [All Shifts]
*	F	allower passed of	

 The OEE Studio installation manual is available for downloading on our new website <u>http://www.oeestudio.com/toolbox.html</u>

# **Contact Us**

- As the Vorne Authorized Reporting Consultants, we provide customized reporting solutions, including working with data from your ERP/MRP systems.
- In addition to customized reporting, we provide support and customization for the **OEE Studio** reporting software (designed specifically for the data captured from the Vorne XL devices).
- We also provide sales, support and customization for OEE Alert. (<u>www.OEEAlert.com</u>)

OEE Studio, OEE Alert and XL Bolt-On Data Collector are part of the Marketing brand of

Vetii GROUP