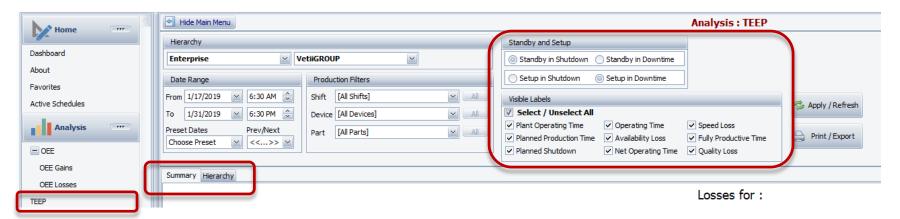
#### Analysis – TEEP – Summary and Hierarchy Tabs

The values making up the charts are displayed within their respective section. Includes the ability to select which values to display.



**Total Effective Equipment Performance (TEEP)** considers maximum time to be All Available Time – that is 24 hours, 365 days a year. (*This includes Standby in Downtime to be selected*)

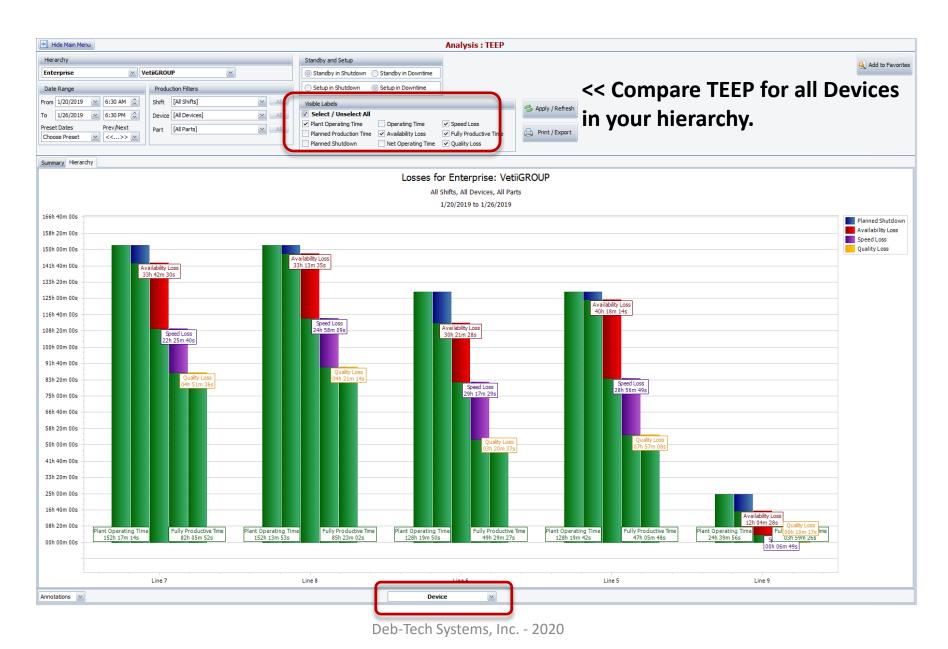
TEEP = Performance x Quality x Availability (where Availability = Actual Production Time / All Time).

**Overall Operations Effectiveness (OOE)** takes unscheduled time into account, looking at Total Operations Time as the maximum. Performance x Quality x Availability (where Availability = Actual Production Time / Operating Time)

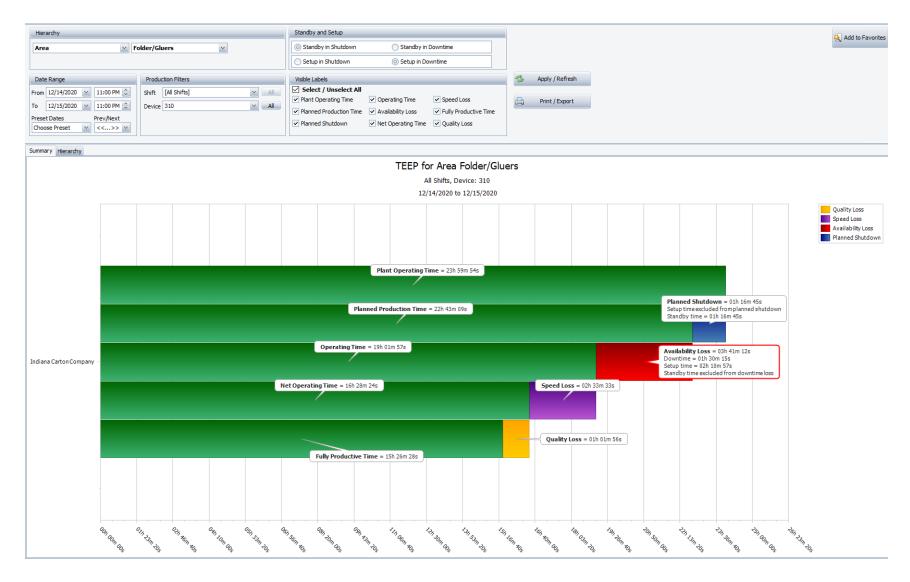
**Overall Equipment Effectiveness (OEE)** only considers scheduled time. If a machine is down due to maintenance, and it's not scheduled for work, OEE ignores this time. (*Standby in Shutdown would be selected*)

Performance x Quality x Availability (where Availability = Actual Production Time / Scheduled Time)

#### Analysis – TEEP – Summary and Hierarchy Tabs



#### Validate the Numbers



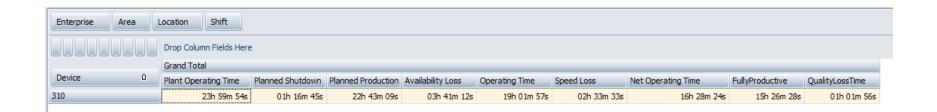
### Calculations

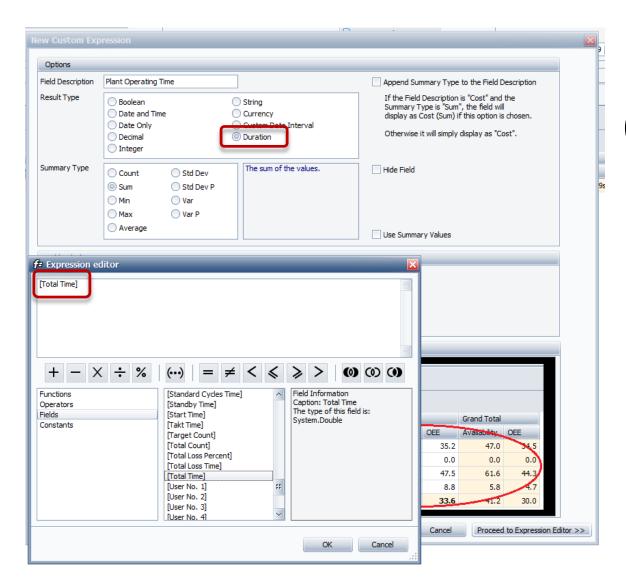
#### These calculations can be created in the Shift Data – Shift Analysis Screen:

- Plant operating time = Total Time
- Planned Shutdown = (Setup Time if setup in shutdown) + (standby time if standby in shutdown)
- Planned Production Time = Plant Operating Time Planned Shutdown
- Availability Loss: (down time) + (Setup Time if setup in downtime) + (standby time if standby in downtime)

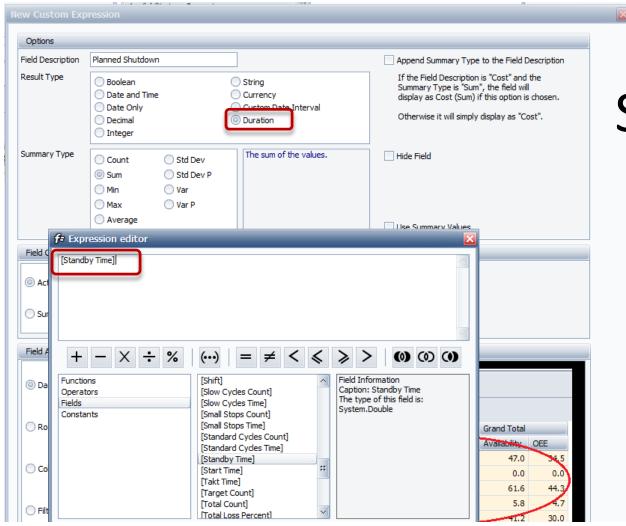


- Operating time = Planned Production Time Availability Loss
- Speed Loss: [Run Time] \* (1 [Performance] / 100.0)
- Net Operating Time = Operating time Speed Loss
- Fully Productive time = ([Run Time] [Run Time] \* (1 [Performance] / 100.0)) \* ([Quality] / 100.0)
- Quality Loss time = [Plant Operating Time] [Planned Shutdown] [Availability Loss] [Speed Loss] [FullyProductive]

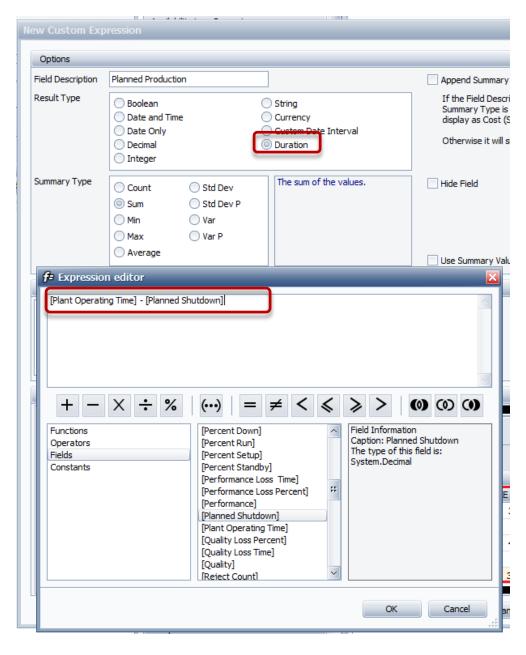




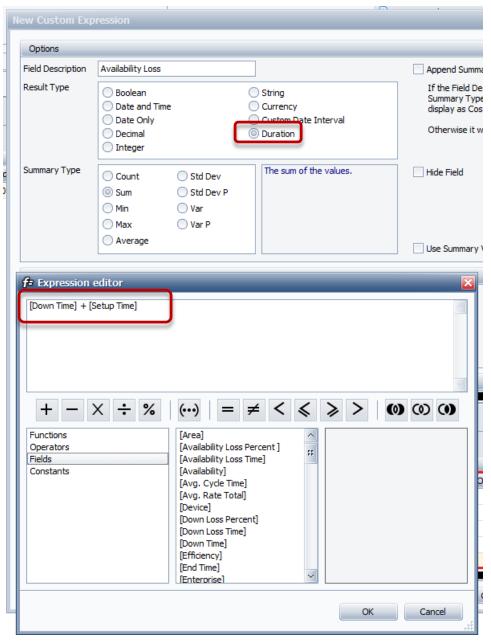
# Plant Operating Time



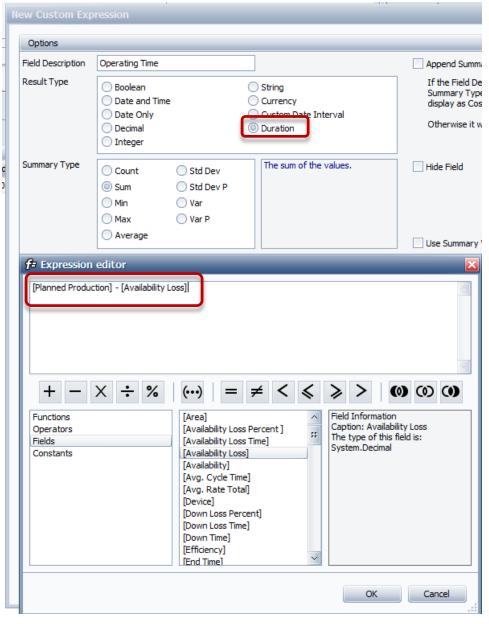
# Planned Shutdown



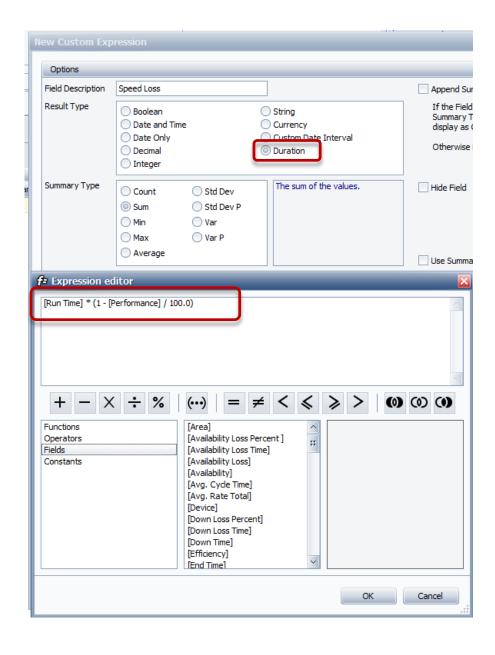
# Planned Production



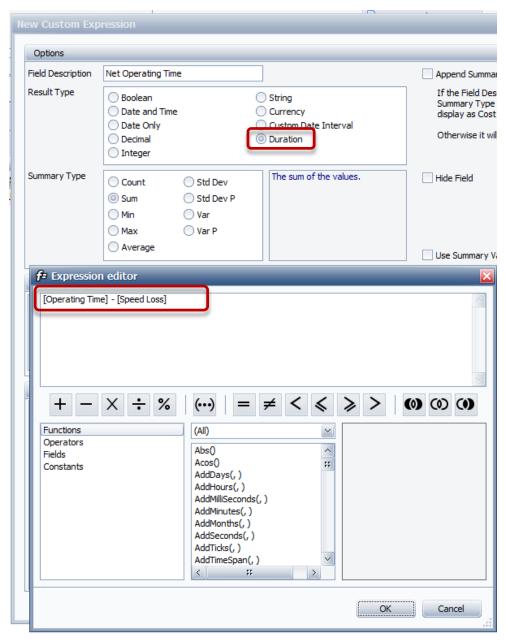
# Availability Loss



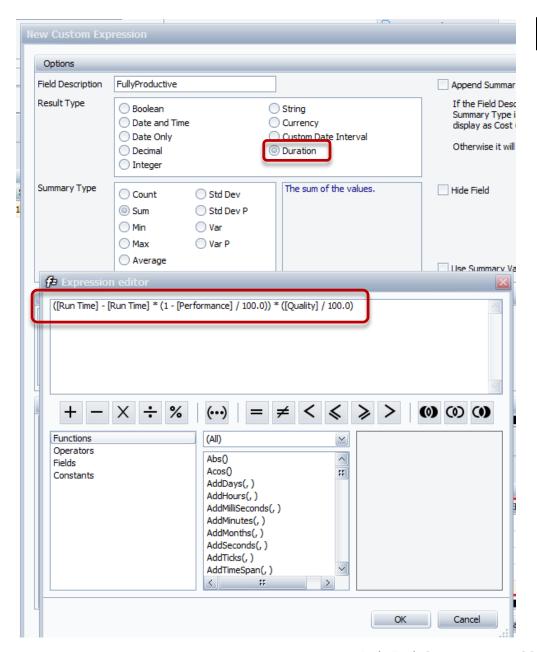
### Operating Time



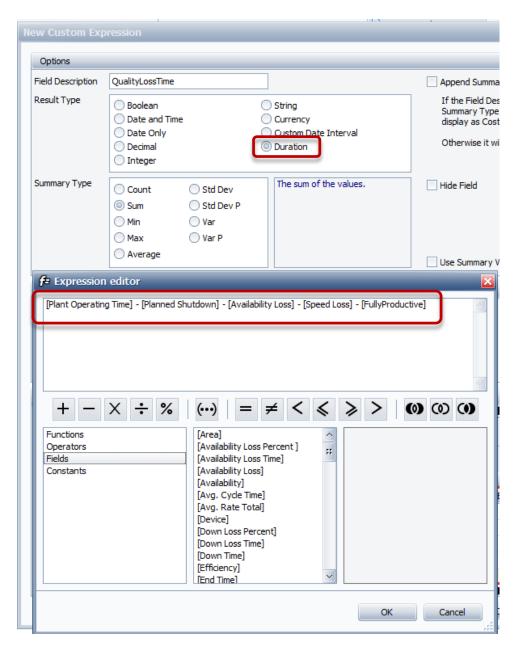
### **Speed Loss**



# Net Operating Time



# Fully Productive Time



## **Quality Loss**