
Status Report: SHIPMENT DELIVERY ANALYSIS

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Objective

1 Analysis of Shipments that met on-time delivery and that got delayed

2 Enhance operational performance by understanding the impact of vehicle size and build-up on delivery reliability and efficiency.

3 Notification set-up for Shipments having potential delays in delivery

On-Time Delivery Shipments

KPI

- On-Time Delivery:
- Before On-time Deliveries:
- Total on time Deliveries:
- Late Deliveries

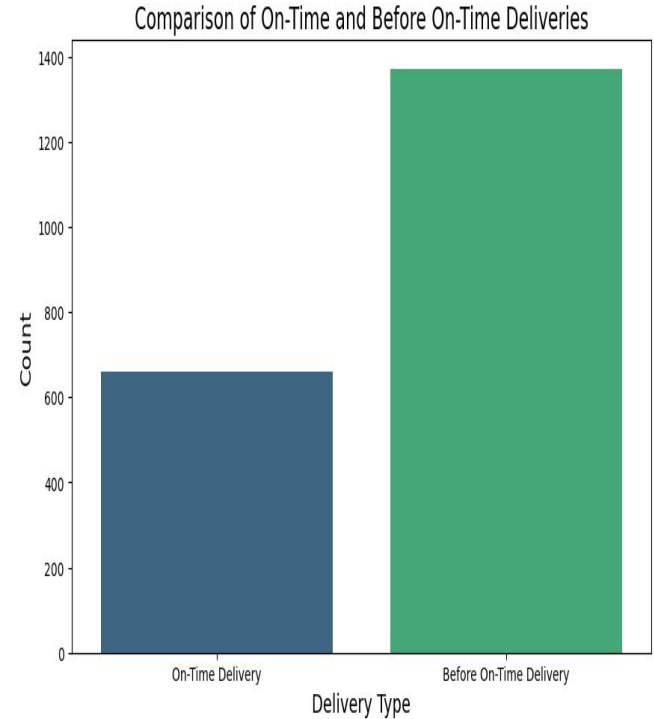
Results

- Percentage On-time delivery: 62.7%
 - Count On-time delivery: 2033
 - Count delay in delivery: 1212
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ON TIME DELIVERY ANALYSIS

On-Time Delivery Breakdown::

- 20.36 % of shipments that is 661 shipments delivered within the scheduled time window.
- 42.28% of shipments that is 1372 shipment delivered before the scheduled earliest time, suggesting potential scheduling adjustments



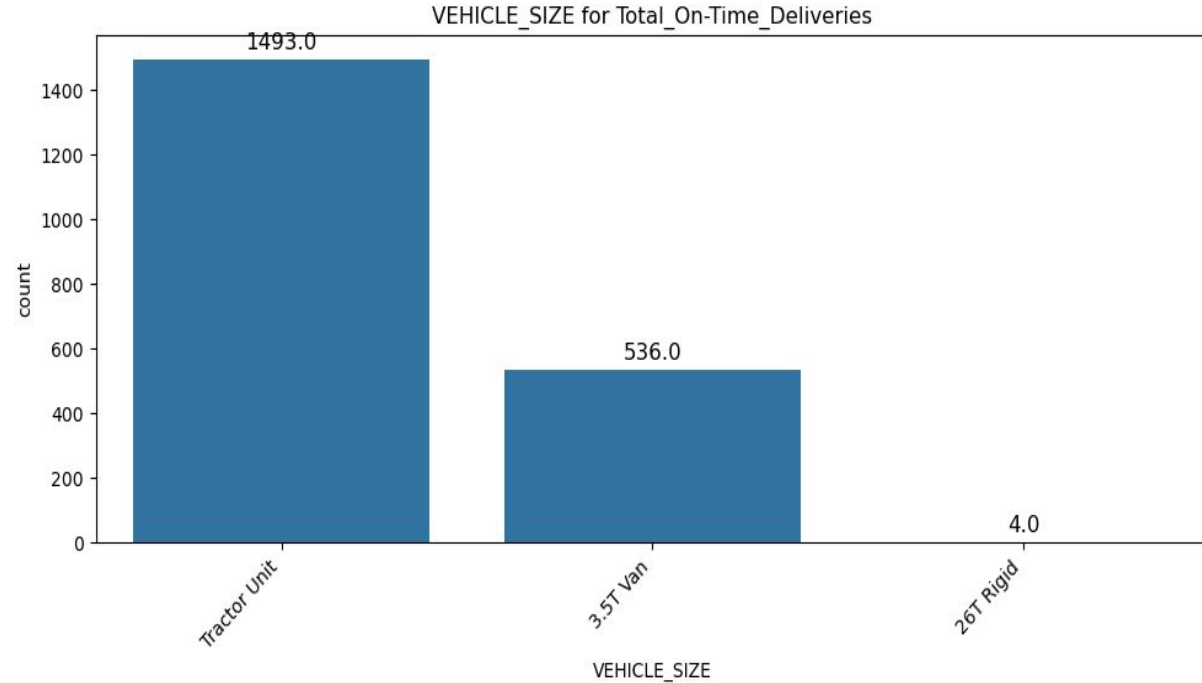
VEHICLE ANALYSIS (On Time)

On-Time Delivery Breakdown::

- **Tractor Unit:** 57.16% on-time deliveries
- **3.5T Van:** 89.48% on-time deliveries
- **26T Rigid:** 100% on-time deliveries

Insights:

- Tractor Units show a substantial percentage of on-time deliveries despite their high volume.
- 3.5T Vans demonstrate exceptionally high on-time delivery rates, indicating efficient logistics management.
- 26T Rigid vehicles have achieved perfect on-time delivery performance.

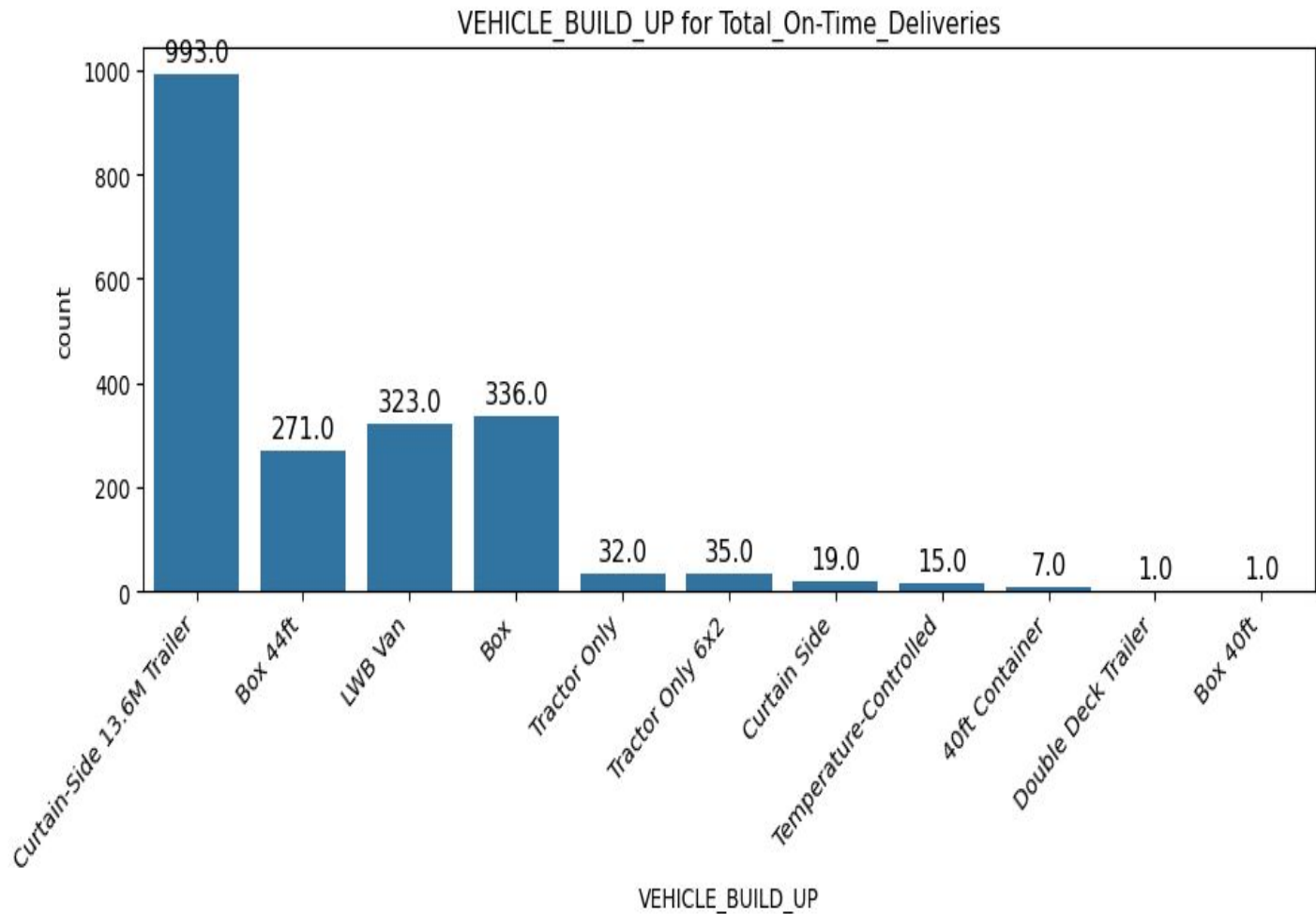


On-Time Delivery Breakdown:

High Performance Categories:

Box 40ft and LWB Van demonstrate exceptionally high on-time delivery rates, with 100% and 88.01% respectively. This indicates effective logistics management and reliability in meeting delivery schedules.

Perform Consistency: Box category shows a solid performance with 80.96% on-time deliveries across a significant volume of 415 total deliveries, reflecting consistent



On Time Top
Performer

3.5T Van



26T Rigid



VEHICLE ANALYSIS (Late)

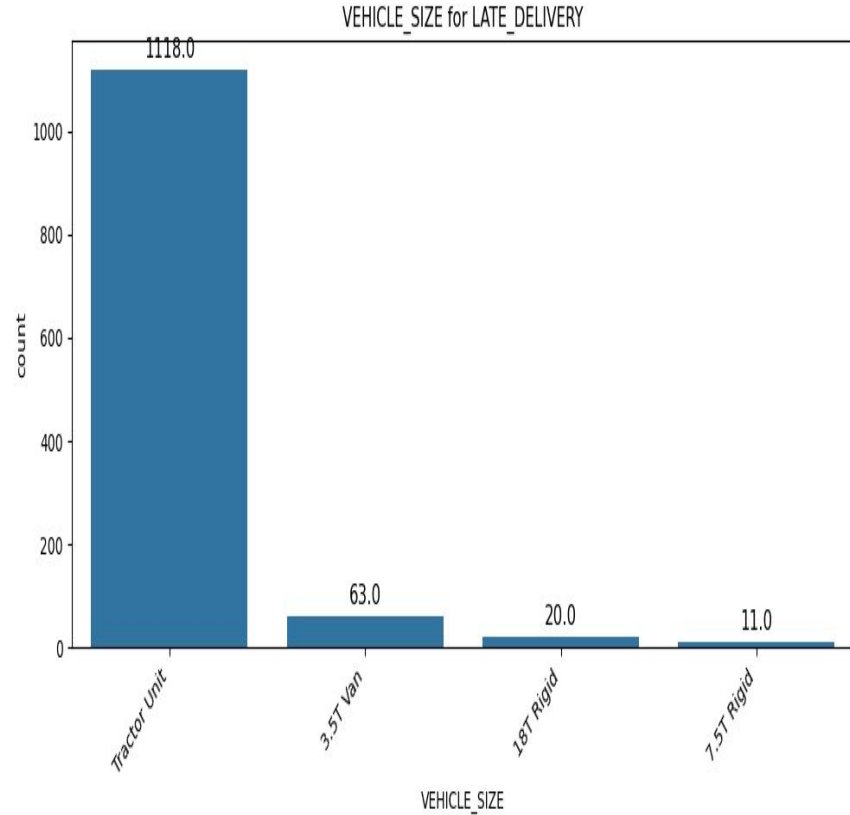
On-Time Delivery Breakdown:

Late Deliveries:

- **Tractor Unit:** 42.84% late deliveries
- **3.5T Van:** 10.52% late deliveries
- **18T Rigid:** 100% late deliveries
- **7.5T Rigid:** 100% late deliveries

Larger vehicle sizes such as 18T Rigid and 7.5T Rigid show a higher incidence of late deliveries compared to smaller vehicle sizes.

Late deliveries with Tractor Units are a significant area for improvement, possibly indicating operational challenges or capacity issues.



Late-Time Delivery Breakdown:

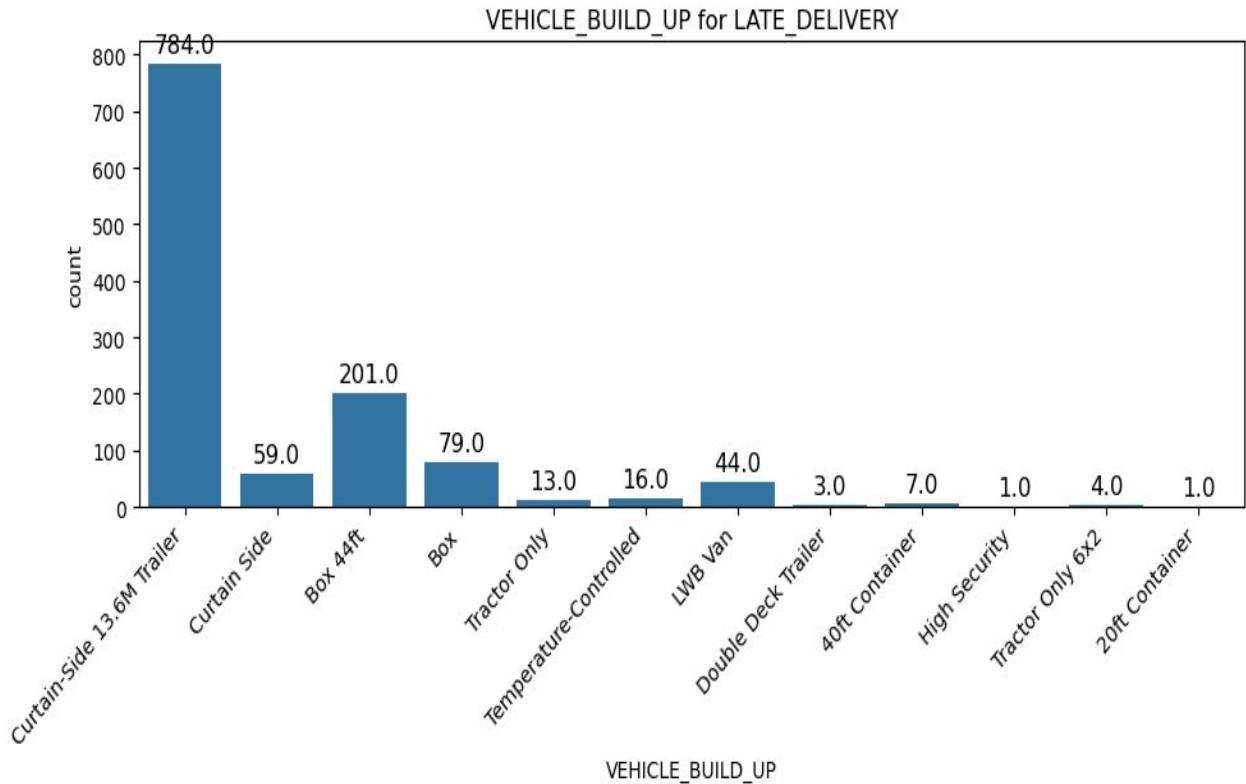
Curtain-Side 13.6M Trailer faces challenge with a notable 44.11% of deliveries being late, indicating potential issues in scheduling or execution in a high-volume category.

Variability in Performance:

Box 44ft shows a substantial 42.58% late delivery rate despite a significant number of total deliveries (472). This suggests variability in meeting delivery timelines within this category.

Room for Improvement:

Temperature-Controlled category has a relatively balanced performance but leans towards late deliveries (51.61%), suggesting areas where operational efficiency could be enhanced.



Time Consuming

18T Rigid



7.5 Rigid



Recommendation areas

Vehicle Size (On time)

- Explore operational improvements for larger vehicle sizes to reduce late deliveries, such as better route planning or enhanced fleet management.
- Implement tracking and reporting mechanisms to monitor and address late deliveries promptly, focusing initially on Tractor Units to improve performance.

Vehicle Size (Delayed)

- Explore operational improvements for larger vehicle sizes to reduce late deliveries, such as better route planning or enhanced fleet management.
 - Implement tracking and reporting mechanisms to monitor and address late deliveries promptly, focusing initially on Tractor Units to improve performance.
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Recommendation areas

Vehicle Build up (On time)

- **Invest in 3.5T Vans:** Expand the fleet of 3.5T Vans, which consistently achieve high on-time delivery rates (89.48%). Allocate resources to optimize routes and maximize their efficiency.
- **Utilize Technology:** Implement real-time tracking and route optimization software across all vehicle sizes to minimize delays and improve delivery accuracy.
- **Driver Training:** Provide ongoing training programs for drivers, focusing on time management, route familiarity, and customer service to enhance on-time performance.

Vehicle Build Up (Late)

- **Optimize 18T and 7.5T Rigid Trucks:** Conduct a thorough operational review and implement route optimization strategies for larger vehicle sizes to mitigate delays (currently 100% late deliveries).
 - **Capacity Planning:** Assess fleet capacity and adjust resources as needed to meet demand without compromising delivery timelines.
 - **Supplier Collaboration:** Strengthen relationships with suppliers to ensure timely receipt of goods, minimizing delays in vehicle loading and departure.
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Suggested Next Steps

- Refine Scheduling Accuracy

Action: Utilise historical data and analytics to improve the accuracy of delivery time estimates.

Benefit: Reduces instances of early deliveries, optimising resource utilisation and improving operational efficiency.

- Stakeholder Communication Protocol

Action: Establish a clear and standardised communication protocol for notifying stakeholders about potential delays and early deliveries.

Benefit: Enhances transparency and trust with customers and partners, allowing for better customer service and expectation management.

- Performance Analysis and Review

Action: Conduct regular reviews and analysis of delivery performance metrics.

Benefit: Identifies trends and patterns in delivery times, enabling continuous improvement of operational processes.

- Operational Adjustments

Action: Implement operational adjustments based on analysis findings, such as optimising delivery routes or adjusting scheduling windows.

Benefit: Improves delivery efficiency and reduces the occurrence of both early and late deliveries.

Additional Attention Areas:

- **Technology Integration:** Explore opportunities to integrate advanced technology such as GPS tracking and predictive analytics to enhance delivery accuracy and timeliness.
 - **Supplier Collaboration:** Strengthen partnerships with suppliers to streamline supply chain processes and minimize delays in receiving goods for transportation.
 - **Continuous Improvement:** Establish a culture of continuous improvement by regularly reviewing performance metrics and soliciting feedback from drivers and operational staff.
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