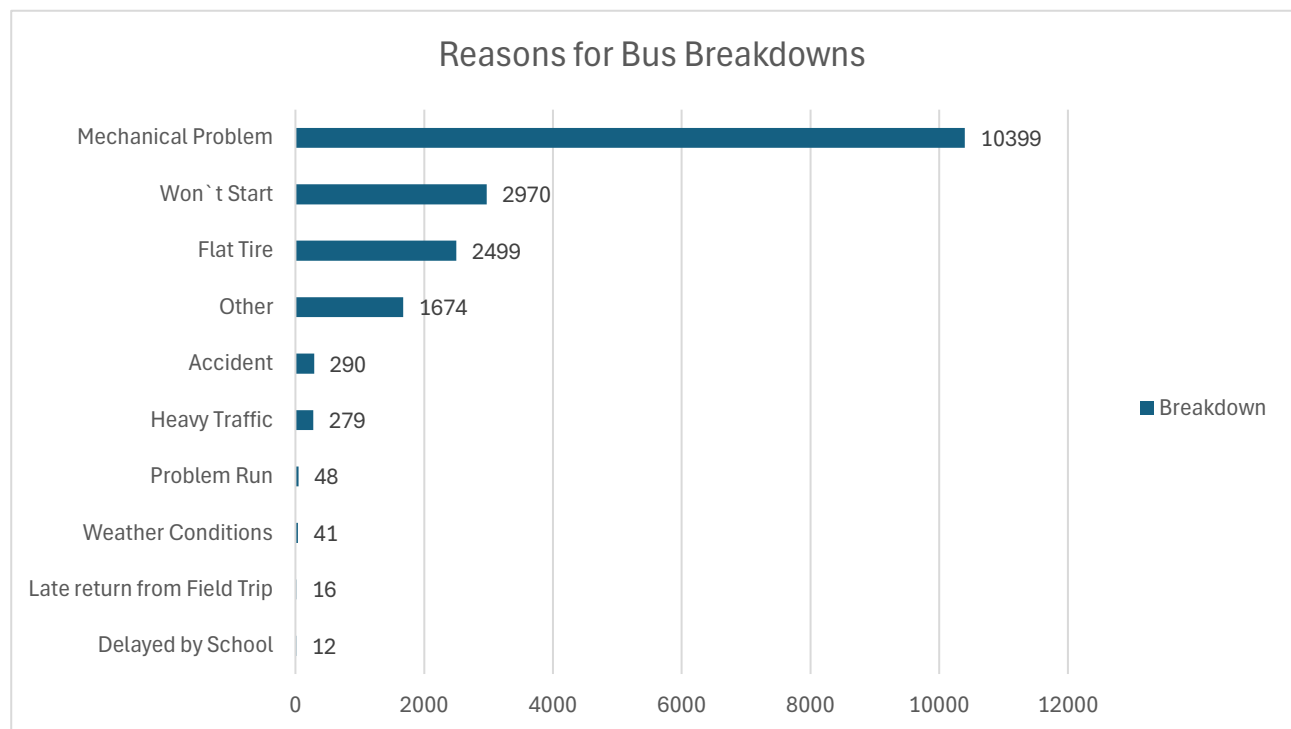


Count of Reason Row Labels	Column Labels		
	Breakdown	Grand Total	Percent of total
Delayed by School	12	12	0.07%
Late return from Field Trip	16	16	0.09%
Weather Conditions	41	41	0.22%
Problem Run	48	48	0.26%
Heavy Traffic	279	279	1.53%
Accident	290	290	1.59%
Other	1674	1674	9.18%
Flat Tire	2499	2499	13.71%
Won` t Start	2970	2970	16.29%
Mechanical Problem	10399	10399	57.05%
Grand Total	18228	18228	



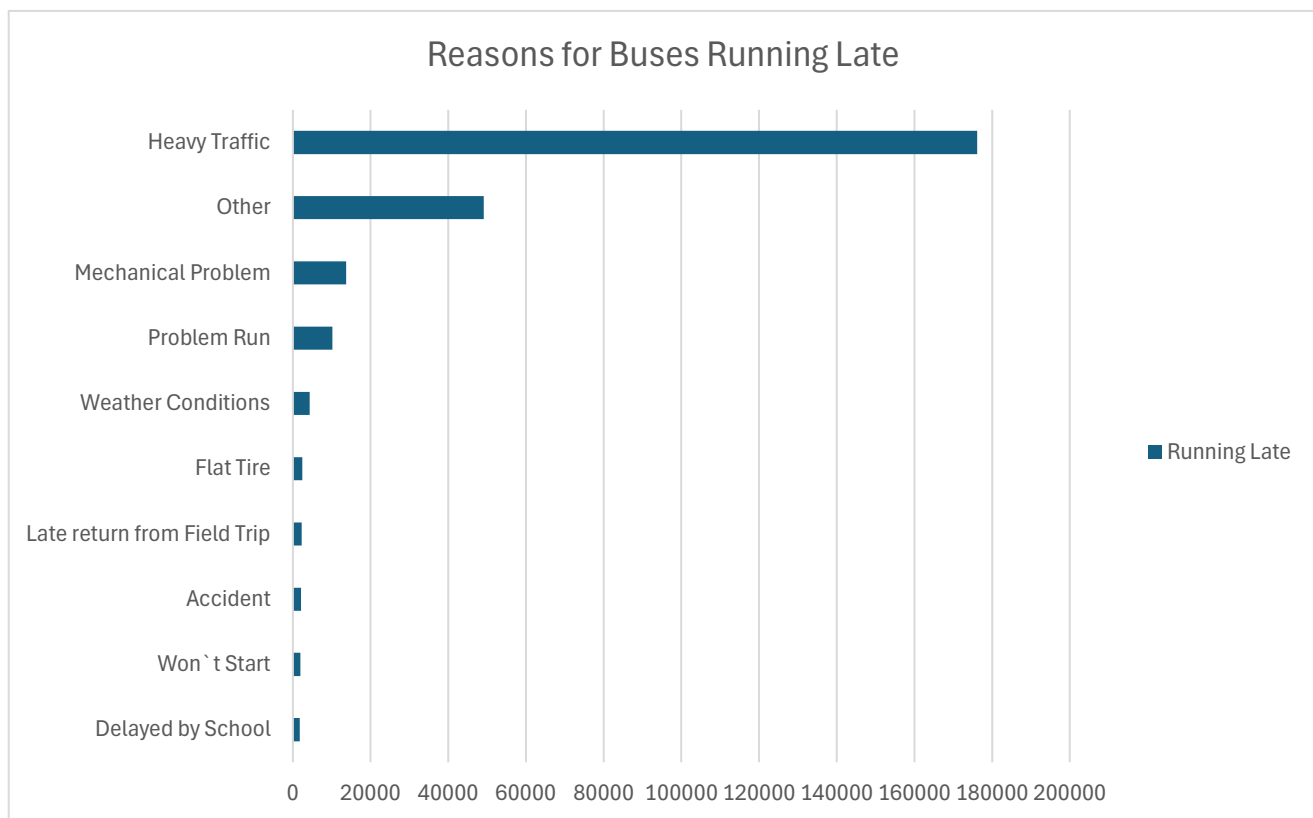
Findings:

Majority of breakdowns seem to be caused by mechanical breakdowns.

Recommend during more maintaince and service checks to avoid breakdowns and deayls. Monthly servicing should decrease the breakdowns tremendously.

Regular maintainence can reduce breakdowns by 70%.

Count of Reason	Column Labels		
Row Labels	Running Late	Grand Total	Percent of Total
Delayed by School	1737	1737	0.66%
Won't Start	1932	1932	0.73%
Accident	2101	2101	0.80%
Late return from Field Trip	2255	2255	0.85%
Flat Tire	2401	2401	0.91%
Weather Conditions	4318	4318	1.64%
Problem Run	10193	10193	3.86%
Mechanical Problem	13695	13695	5.19%
Other	49135	49135	18.61%
Heavy Traffic	176196	176196	66.75%
Grand Total	263963	263963	



Findings:

Overwhelmingly, the main cause of delays is traffic.

Potential solutions could involve changing routes or times of departure and pick-up.

Over 5% of delays are due to mechanical issues which could be resolved with the plan for reducing bus breakdowns with regular servicing.

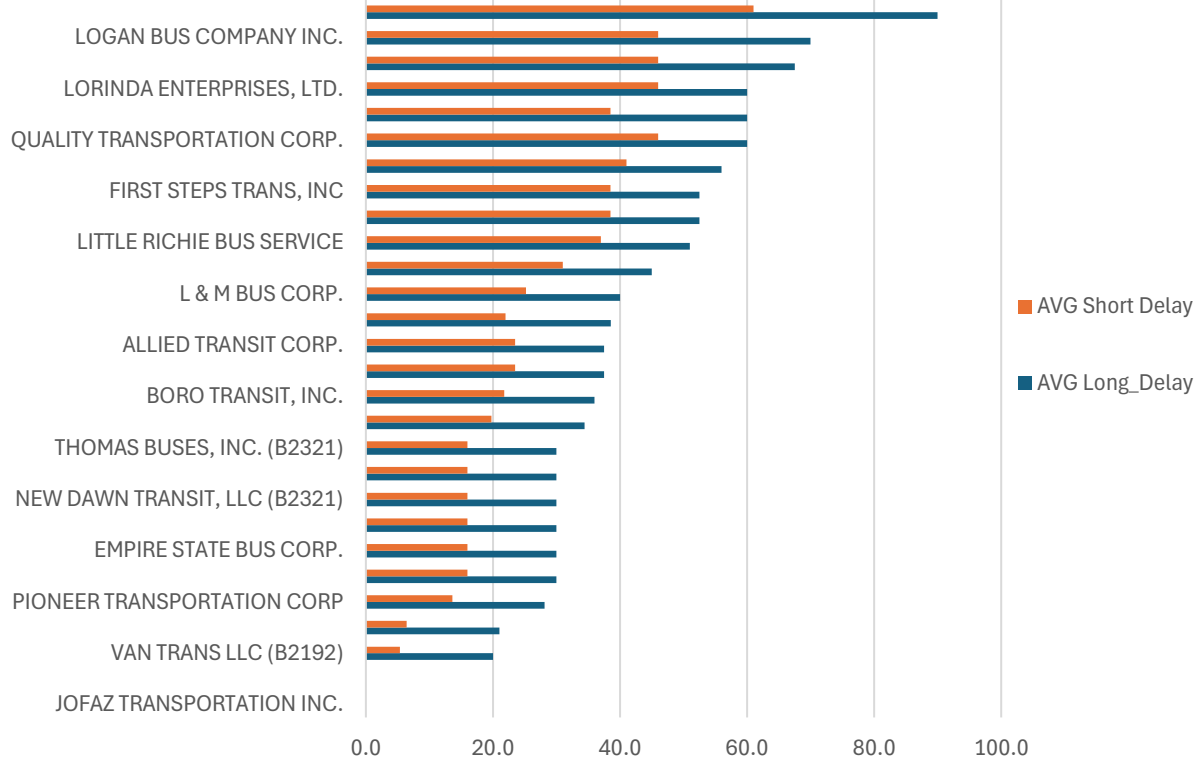
Row Labels	AVG Long_Delay	AVG Short Delay
JOFAZ TRANSPORTATION INC.		
BOBBY`S BUS CO. INC.		
VAN TRANS LLC (B2192)	20.0	5.3
ALINA SERVICES CORP.	21.0	6.4
PIONEER TRANSPORTATION CORP	28.1	13.6
GRANDPA`S BUS CO., INC.	30.0	16.0
EMPIRE STATE BUS CORP.	30.0	16.0
ANOTHER RIDE INC.	30.0	16.0
NEW DAWN TRANSIT, LLC (B2321)	30.0	16.0
HOYT TRANSPORTATION CORP.	30.0	16.0
THOMAS BUSES, INC. (B2321)	30.0	16.0
G.V.C., LTD.	34.4	19.8
BORO TRANSIT, INC.	36.0	21.8
EMPIRE CHARTER SERVICE INC	37.5	23.5
ALLIED TRANSIT CORP.	37.5	23.5
DON THOMAS BUSES, INC.	38.6	22.0
L & M BUS CORP.	40.0	25.2
RELIANT TRANSPORTATION, INC (B2321)	45.0	31.0
LITTLE RICHIE BUS SERVICE	51.0	37.0
CONSOLIDATED BUS TRANSIT, INC.	52.5	38.5
FIRST STEPS TRANS, INC	52.5	38.5
LEESEL TRANSPORTATION CORP (B2192)	56.0	41.0
QUALITY TRANSPORTATION CORP.	60.0	46.0
SNT BUS INC	60.0	38.5
LORINDA ENTERPRISES, LTD.	60.0	46.0
PRIDE TRANSPORTATION (SCH AGE)	67.5	46.0
LOGAN BUS COMPANY INC.	70.0	46.0
SELBY TRANSPORTATION	90.0	61.0
Grand Total	40.1	25.0

Row Labels	AVG Short_Delay	AVG Long_Delay
CAREFUL BUS	29.3	45.1
Delayed by School	21.1	36.3
Weather Conditions	25.3	41.5
Late return from Field Trip	25.8	40.6
Heavy Traffic	27.9	43.5
Flat Tire	31.3	46.8
Won`t Start	31.8	47.7
Mechanical Problem	31.8	47.4
Other	32.3	49.1
Problem Run	35.1	50.6
Accident	38.4	55.8
Grand Total	29.3	45.1

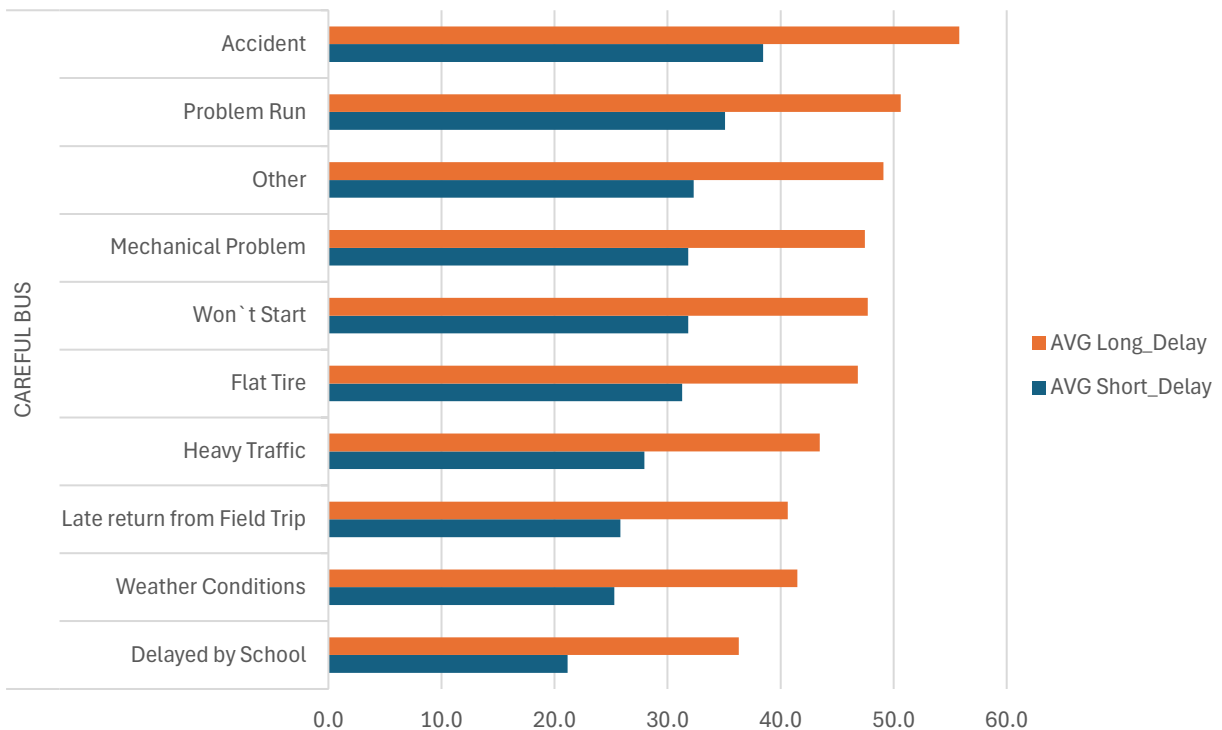
Careful Buss 99% of delays

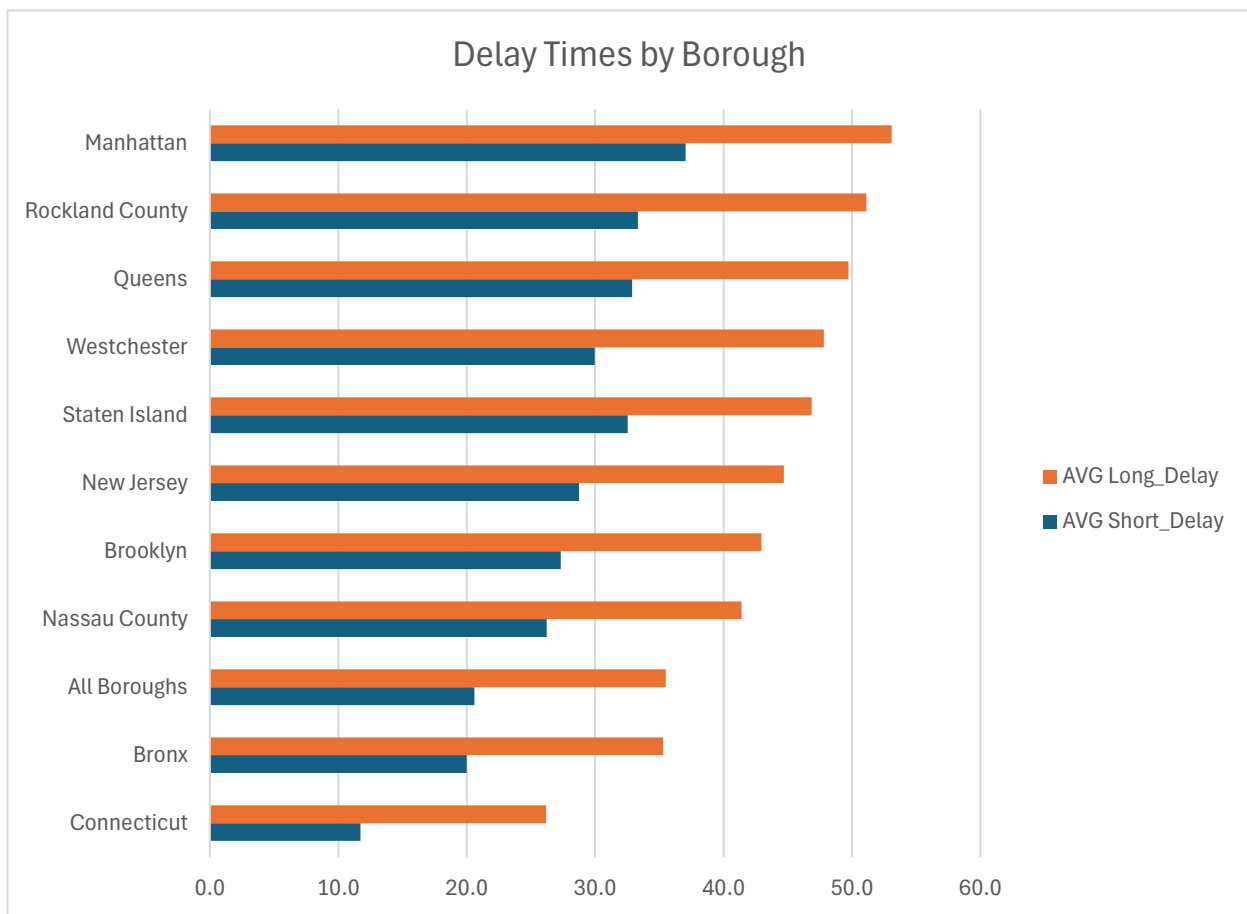
Row Labels	AVG Short_Delay	AVG Long_Delay
Connecticut	11.7	26.2
Bronx	20.0	35.3
All Boroughs	20.6	35.5
Nassau County	26.2	41.4
Brooklyn	27.3	42.9
New Jersey	28.7	44.7
Staten Island	32.5	46.9
Westchester	30.0	47.8
Queens	32.9	49.7
Rockland County	33.3	51.1
Manhattan	37.0	53.1
Grand Total	29.3	45.1

Longest Delay Times by Company Excluding Careful Bus Co.



Careful Bus Co. Delay Times





Findings:

There is not a large difference in delays between a majority of the boroughs.

Recommendation: Apply the same changes to reduce delay times to all boroughs.

Findings:

These are the top 10 companies with the longest delays excluding the Careful Bus Co. which accounts for 99% of all delays.

The longest average delay we see is between 1 hour to 1.5 hours and the shortest is 5 to 20 minutes.

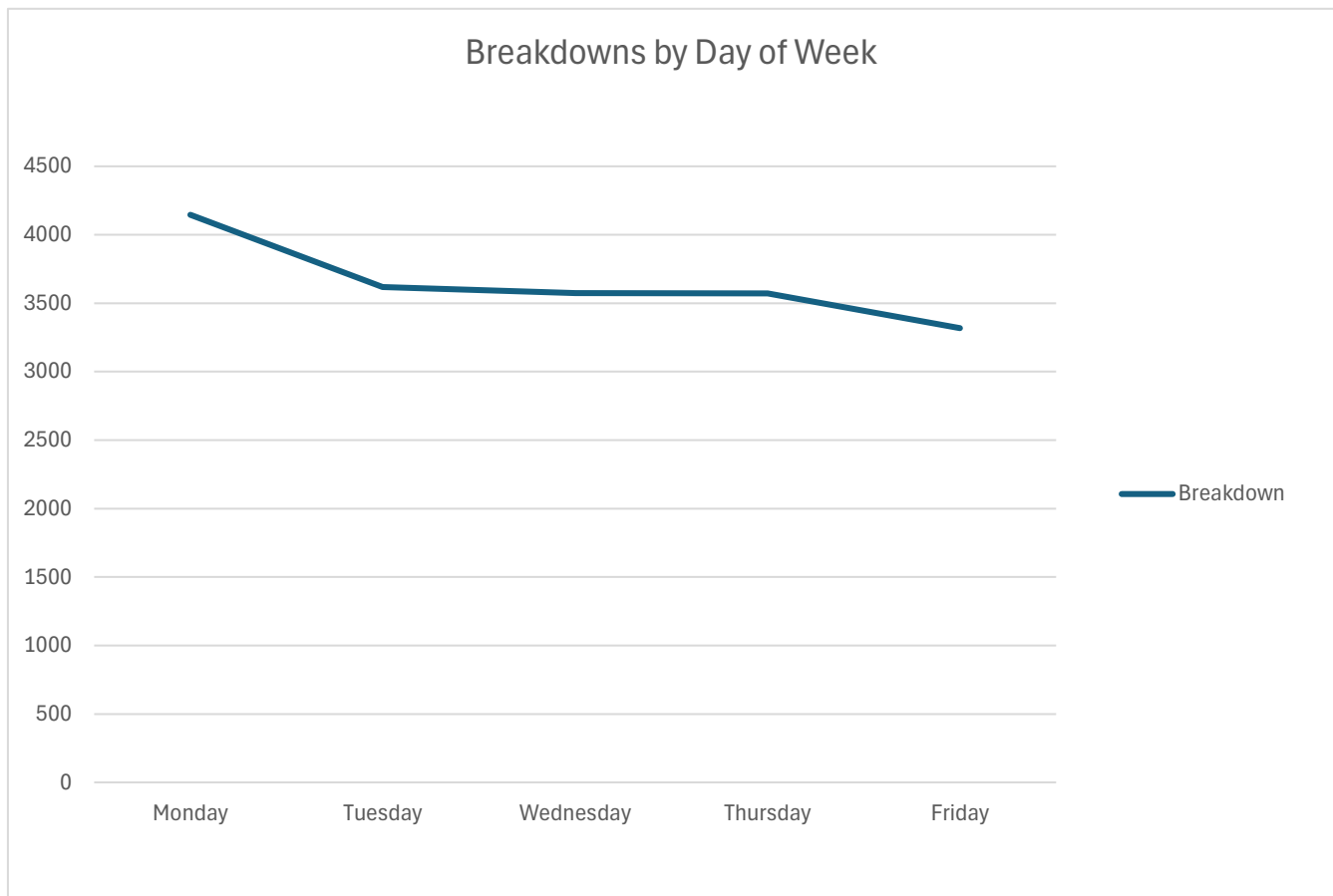
Recommendation: We could potentially switch to companies that have overall lower delays times and instances than Careful Bus Co. which holds 99% of our delays.

Findings:

Careful Bus Co. is the holds 99% of all our delays. The longest delays we see are between 40 to 55 minutes on average. However, 3 out of the top 5 reasons for delay are due to mechanical issues which could be resolved with improved regular maintenance; drastically reducing the number and length of delays.

It's important to note we do not have data on how many routes each company accounts for, as such we should be careful of cutting contracts with any one company until we have this data.

Count of Breakdown_or_Running_Late	Column Labels	
Row Labels	Breakdown	Grand Total
Monday	4146	4146
Tuesday	3619	3619
Wednesday	3573	3573
Thursday	3572	3572
Friday	3318	3318
Grand Total	18228	18228



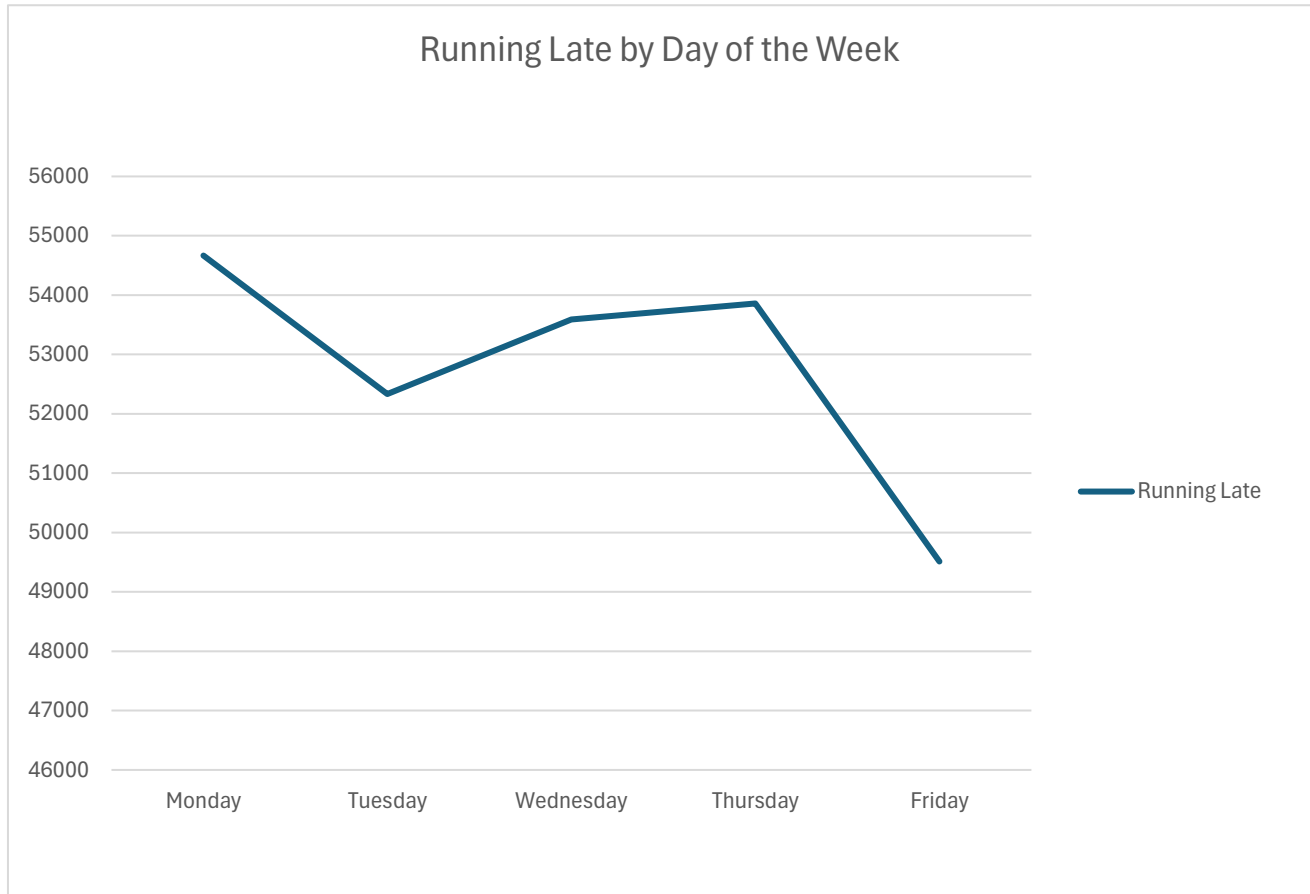
Findings:

We have the highest amount of breakdowns at the beginning of the week and the lowest towards the end of the week.

Recommendation:

On weekends we can do a service check to make sure all buses are ready to go the next day on Monday without breaking down.

Count of Breakdown_or_Running_Late	Column Labels	
Row Labels	Running Late	Grand Total
Monday	54667	54667
Tuesday	52332	52332
Wednesday	53589	53589
Thursday	53862	53862
Friday	49512	49512
Grand Total	263962	263962



Findings:

Similar to breakdowns buses run later more often at the beginning of the week than the end. However we see a jump on Thursdays similar to Mondays.

Conclusion:

Mondays and Thursdays have the highest amount of traffic due to the busy workdays for a majority of people. Fridays see a significant drop because Many people leave work either earlier or later than the rest of the week.