# Results for h30d20.csv

## max\_vehicles = 2

**Total distance = 429.72**Vehicle total idle time = 22.68  
Customer total wait time = 9098.20

## max\_vehicles = 3

**Total distance = 547.12**Vehicle total idle time = 0.00  
Customer total wait time = 7845.70

## max\_vehicles = 4

**Total distance = 533.44**Vehicle total idle time = 0.00  
Customer total wait time = 7520.97

## Summary of total distances

• max\_vehicles = 2 → total\_distance = 429.72

• max\_vehicles = 3 → total\_distance = 547.12

• max\_vehicles = 4 → total\_distance = 533.44

=== Processing h30d10.csv ===

--- Training with max\_vehicles = 2 ---

Ep 1/50 | Reward 3351.23 | Loss 218297177.56 | Dist 462.16 | Vehl 2

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 27, 17, 8, 19, 20, 7, 6, 5, 2, 4, 1, 14, 21, 13, 12, 26, 15, 29, 0], Distance=288.85, RemCap=85.0

Vehicle 1: Route=[0, 25, 28, 23, 3, 16, 24, 30, 0], Distance=173.31, RemCap=387.0

Total vehicle waiting time = 54.65

Total customer waiting time = 8541.80

--------------------------------------------------

Ep 2/50 | Reward 3371.48 | Loss 207412200.04 | Dist 459.53 | Vehl 2

Vehicle 0: Route=[0, 30, 6, 7, 20, 19, 8, 17, 22, 18, 11, 27, 9, 10, 13, 26, 15, 14, 23, 1, 3, 4, 16, 2, 5, 24, 0], Distance=312.02, RemCap=66.0

Vehicle 1: Route=[0, 29, 21, 12, 25, 28, 0], Distance=147.51, RemCap=406.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9435.25

--------------------------------------------------

Ep 3/50 | Reward 2963.98 | Loss 151157385.76 | Dist 430.59 | Vehl 2

Vehicle 0: Route=[0, 22, 18, 25, 27, 9, 10, 11, 28, 23, 12, 26, 15, 1, 3, 4, 16, 2, 5, 19, 17, 8, 20, 6, 7, 24, 0], Distance=336.61, RemCap=41.0

Vehicle 1: Route=[0, 21, 13, 29, 14, 30, 0], Distance=93.99, RemCap=431.0

Total vehicle waiting time = 96.96

Total customer waiting time = 11168.48

--------------------------------------------------

Ep 4/50 | Reward 3126.67 | Loss 178850845.65 | Dist 465.25 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 22, 18, 27, 9, 10, 11, 13, 12, 21, 14, 15, 29, 1, 3, 4, 16, 2, 5, 24, 0], Distance=302.99, RemCap=65.0

Vehicle 1: Route=[0, 30, 25, 28, 26, 23, 0], Distance=162.26, RemCap=407.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10003.87

--------------------------------------------------

Ep 5/50 | Reward 3407.48 | Loss 215787789.06 | Dist 487.31 | Vehl 2

Vehicle 0: Route=[0, 28, 11, 10, 9, 25, 18, 22, 17, 8, 19, 20, 7, 6, 5, 2, 16, 4, 3, 1, 15, 14, 23, 21, 13, 12, 29, 0], Distance=306.97, RemCap=61.0

Vehicle 1: Route=[0, 27, 26, 30, 24, 0], Distance=180.34, RemCap=411.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8048.55

--------------------------------------------------

Ep 6/50 | Reward 3301.10 | Loss 202757450.05 | Dist 458.60 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 22, 18, 9, 10, 11, 28, 13, 12, 26, 21, 14, 15, 1, 3, 4, 16, 2, 5, 24, 0], Distance=306.33, RemCap=51.0

Vehicle 1: Route=[0, 30, 29, 23, 25, 27, 0], Distance=152.27, RemCap=421.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9089.02

--------------------------------------------------

Ep 7/50 | Reward 3404.89 | Loss 229202084.72 | Dist 480.07 | Vehl 2

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 30, 2, 5, 16, 4, 3, 1, 15, 29, 12, 13, 21, 23, 28, 18, 11, 10, 9, 27, 0], Distance=302.99, RemCap=55.0

Vehicle 1: Route=[0, 24, 14, 26, 25, 22, 0], Distance=177.09, RemCap=417.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8911.78

--------------------------------------------------

Ep 8/50 | Reward 3370.32 | Loss 221387472.48 | Dist 436.18 | Vehl 2

Vehicle 0: Route=[0, 23, 21, 13, 12, 29, 15, 14, 30, 2, 1, 3, 4, 16, 5, 24, 7, 6, 20, 19, 8, 17, 18, 11, 10, 9, 25, 27, 0], Distance=323.42, RemCap=19.0

Vehicle 1: Route=[0, 22, 26, 28, 0], Distance=112.76, RemCap=453.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8504.74

--------------------------------------------------

Ep 9/50 | Reward 3329.21 | Loss 187876245.75 | Dist 445.04 | Vehl 2

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 25, 17, 8, 19, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 14, 15, 29, 12, 13, 23, 0], Distance=285.37, RemCap=55.0

Vehicle 1: Route=[0, 30, 27, 28, 26, 21, 0], Distance=159.67, RemCap=417.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9078.72

--------------------------------------------------

Ep 10/50 | Reward 2929.37 | Loss 130856988.31 | Dist 500.75 | Vehl 2

Vehicle 0: Route=[0, 21, 13, 26, 15, 14, 30, 2, 16, 1, 3, 4, 5, 24, 6, 20, 19, 8, 17, 25, 9, 10, 11, 18, 22, 0], Distance=306.36, RemCap=86.0

Vehicle 1: Route=[0, 7, 27, 28, 12, 29, 23, 0], Distance=194.39, RemCap=386.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11814.24

--------------------------------------------------

Ep 11/50 | Reward 3287.46 | Loss 200269526.55 | Dist 444.54 | Vehl 2

Vehicle 0: Route=[0, 19, 17, 8, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 14, 15, 29, 26, 12, 13, 21, 28, 18, 11, 10, 9, 25, 0], Distance=302.75, RemCap=24.0

Vehicle 1: Route=[0, 30, 23, 22, 27, 0], Distance=141.79, RemCap=448.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9530.36

--------------------------------------------------

Ep 12/50 | Reward 3424.50 | Loss 209269481.02 | Dist 462.36 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 15, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 25, 9, 10, 11, 28, 0], Distance=296.69, RemCap=71.0

Vehicle 1: Route=[0, 30, 27, 21, 26, 14, 29, 0], Distance=165.67, RemCap=401.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8576.77

--------------------------------------------------

Ep 13/50 | Reward 3190.25 | Loss 174272688.50 | Dist 448.66 | Vehl 2

Vehicle 0: Route=[0, 30, 6, 7, 20, 19, 8, 17, 22, 18, 27, 9, 10, 11, 23, 13, 12, 21, 14, 15, 1, 3, 4, 16, 2, 5, 24, 0], Distance=311.61, RemCap=46.0

Vehicle 1: Route=[0, 25, 28, 29, 26, 0], Distance=137.06, RemCap=426.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9327.99

--------------------------------------------------

Ep 14/50 | Reward 3253.26 | Loss 182503784.56 | Dist 437.68 | Vehl 2

Vehicle 0: Route=[0, 28, 18, 11, 10, 9, 27, 25, 17, 8, 19, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 15, 23, 13, 21, 0], Distance=295.97, RemCap=94.0

Vehicle 1: Route=[0, 30, 22, 12, 26, 14, 29, 0], Distance=141.71, RemCap=378.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10458.42

--------------------------------------------------

Ep 15/50 | Reward 3257.32 | Loss 185553249.36 | Dist 421.93 | Vehl 2

Vehicle 0: Route=[0, 13, 12, 26, 21, 15, 29, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 18, 11, 10, 9, 27, 25, 0], Distance=298.21, RemCap=38.0

Vehicle 1: Route=[0, 30, 22, 28, 14, 23, 0], Distance=123.72, RemCap=434.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9661.00

--------------------------------------------------

Ep 16/50 | Reward 3255.34 | Loss 177546006.04 | Dist 531.71 | Vehl 2

Vehicle 0: Route=[0, 28, 11, 10, 9, 25, 18, 22, 17, 19, 20, 6, 7, 24, 5, 2, 4, 3, 1, 15, 14, 13, 12, 29, 0], Distance=303.46, RemCap=81.0

Vehicle 1: Route=[0, 27, 8, 30, 16, 23, 26, 21, 0], Distance=228.25, RemCap=391.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10016.95

--------------------------------------------------

Ep 17/50 | Reward 3356.60 | Loss 190812720.96 | Dist 480.93 | Vehl 2

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 16, 4, 3, 1, 29, 14, 21, 26, 12, 13, 28, 22, 18, 11, 10, 9, 25, 0], Distance=305.51, RemCap=61.0

Vehicle 1: Route=[0, 27, 23, 15, 30, 24, 0], Distance=175.41, RemCap=411.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9566.66

--------------------------------------------------

Ep 18/50 | Reward 3361.87 | Loss 193156682.81 | Dist 438.77 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 16, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 9, 10, 11, 28, 13, 12, 14, 15, 29, 26, 0], Distance=311.21, RemCap=22.0

Vehicle 1: Route=[0, 23, 21, 25, 27, 0], Distance=127.56, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9404.30

--------------------------------------------------

Ep 19/50 | Reward 3097.46 | Loss 156003664.42 | Dist 501.30 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 29, 15, 1, 3, 4, 16, 2, 5, 6, 7, 20, 8, 17, 25, 9, 10, 11, 18, 28, 22, 0], Distance=297.94, RemCap=84.0

Vehicle 1: Route=[0, 19, 30, 24, 14, 26, 21, 27, 0], Distance=203.36, RemCap=388.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9877.70

--------------------------------------------------

Ep 20/50 | Reward 3331.78 | Loss 185354348.12 | Dist 397.28 | Vehl 2

Vehicle 0: Route=[0, 14, 15, 13, 12, 29, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 25, 0], Distance=297.31, RemCap=65.0

Vehicle 1: Route=[0, 30, 26, 21, 23, 28, 0], Distance=99.97, RemCap=407.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9508.66

--------------------------------------------------

Ep 21/50 | Reward 3277.91 | Loss 186460987.55 | Dist 525.66 | Vehl 2

Vehicle 0: Route=[0, 28, 13, 26, 21, 14, 15, 1, 3, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 0], Distance=308.46, RemCap=112.0

Vehicle 1: Route=[0, 24, 4, 23, 27, 12, 29, 0], Distance=217.20, RemCap=360.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9710.26

--------------------------------------------------

Ep 22/50 | Reward 3063.61 | Loss 152657706.67 | Dist 506.93 | Vehl 2

Vehicle 0: Route=[0, 14, 21, 13, 12, 26, 15, 1, 3, 4, 16, 5, 2, 30, 6, 7, 20, 8, 17, 22, 18, 11, 9, 27, 25, 0], Distance=289.27, RemCap=79.0

Vehicle 1: Route=[0, 24, 19, 10, 29, 23, 28, 0], Distance=217.66, RemCap=393.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10853.65

--------------------------------------------------

Ep 23/50 | Reward 3574.59 | Loss 223893949.52 | Dist 441.90 | Vehl 2

Vehicle 0: Route=[0, 21, 13, 12, 26, 29, 15, 14, 1, 4, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 18, 11, 10, 9, 27, 25, 0], Distance=300.63, RemCap=49.0

Vehicle 1: Route=[0, 22, 28, 23, 3, 24, 0], Distance=141.27, RemCap=423.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7885.85

--------------------------------------------------

Ep 24/50 | Reward 3292.44 | Loss 180981075.96 | Dist 536.56 | Vehl 2

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 13, 12, 26, 15, 14, 21, 23, 30, 19, 17, 8, 20, 6, 2, 1, 3, 4, 16, 5, 24, 0], Distance=344.93, RemCap=36.0

Vehicle 1: Route=[0, 7, 29, 27, 25, 28, 0], Distance=191.63, RemCap=436.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9287.28

--------------------------------------------------

Ep 25/50 | Reward 3300.42 | Loss 167403085.96 | Dist 451.38 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 5, 16, 4, 3, 1, 15, 14, 21, 26, 12, 13, 28, 11, 10, 9, 18, 22, 17, 8, 19, 20, 6, 7, 24, 0], Distance=318.95, RemCap=32.0

Vehicle 1: Route=[0, 29, 23, 27, 25, 0], Distance=132.43, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9459.23

--------------------------------------------------

Ep 26/50 | Reward 3262.24 | Loss 163266604.23 | Dist 432.09 | Vehl 2

Vehicle 0: Route=[0, 14, 15, 21, 26, 12, 13, 11, 10, 9, 27, 25, 18, 22, 17, 8, 19, 20, 6, 24, 5, 16, 4, 3, 1, 2, 30, 0], Distance=301.66, RemCap=36.0

Vehicle 1: Route=[0, 7, 29, 23, 28, 0], Distance=130.43, RemCap=436.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10239.12

--------------------------------------------------

Ep 27/50 | Reward 3327.56 | Loss 180517662.59 | Dist 413.81 | Vehl 2

Vehicle 0: Route=[0, 28, 13, 12, 26, 29, 15, 1, 3, 4, 16, 2, 5, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 27, 0], Distance=305.38, RemCap=61.0

Vehicle 1: Route=[0, 30, 24, 14, 21, 23, 0], Distance=108.43, RemCap=411.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9425.79

--------------------------------------------------

Ep 28/50 | Reward 3314.53 | Loss 184856633.05 | Dist 453.22 | Vehl 2

Vehicle 0: Route=[0, 28, 11, 10, 9, 27, 18, 22, 17, 8, 19, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 15, 26, 13, 14, 30, 0], Distance=313.23, RemCap=72.0

Vehicle 1: Route=[0, 25, 12, 29, 21, 23, 0], Distance=139.99, RemCap=400.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10052.87

--------------------------------------------------

Ep 29/50 | Reward 2989.76 | Loss 131439609.43 | Dist 458.84 | Vehl 2

Vehicle 0: Route=[0, 22, 18, 25, 27, 9, 10, 11, 23, 13, 12, 21, 15, 29, 1, 3, 4, 16, 2, 5, 6, 7, 20, 8, 17, 19, 30, 0], Distance=314.52, RemCap=56.0

Vehicle 1: Route=[0, 24, 28, 14, 26, 0], Distance=144.33, RemCap=416.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11906.08

--------------------------------------------------

Ep 30/50 | Reward 3169.36 | Loss 152011572.83 | Dist 425.81 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 26, 29, 15, 14, 1, 3, 4, 16, 5, 2, 30, 6, 20, 19, 8, 17, 25, 27, 9, 10, 11, 18, 22, 0], Distance=288.57, RemCap=36.0

Vehicle 1: Route=[0, 7, 24, 21, 28, 0], Distance=137.24, RemCap=436.0

Total vehicle waiting time = 35.62

Total customer waiting time = 12036.42

--------------------------------------------------

Ep 31/50 | Reward 3617.73 | Loss 210813282.58 | Dist 444.21 | Vehl 2

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 30, 2, 5, 16, 4, 3, 1, 14, 15, 29, 26, 12, 13, 22, 18, 11, 10, 9, 27, 25, 0], Distance=310.40, RemCap=46.0

Vehicle 1: Route=[0, 24, 28, 21, 23, 0], Distance=133.81, RemCap=426.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6095.31

--------------------------------------------------

Ep 32/50 | Reward 3199.39 | Loss 165364675.84 | Dist 462.61 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 16, 5, 6, 7, 20, 19, 8, 17, 25, 27, 9, 10, 11, 18, 13, 26, 29, 15, 14, 23, 0], Distance=296.61, RemCap=69.0

Vehicle 1: Route=[0, 24, 22, 28, 12, 21, 0], Distance=166.00, RemCap=403.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11048.24

--------------------------------------------------

Ep 33/50 | Reward 3452.05 | Loss 196134013.79 | Dist 447.52 | Vehl 2

Vehicle 0: Route=[0, 21, 13, 12, 29, 15, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 27, 9, 10, 11, 28, 0], Distance=296.29, RemCap=61.0

Vehicle 1: Route=[0, 30, 14, 26, 23, 25, 0], Distance=151.23, RemCap=411.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7881.70

--------------------------------------------------

Ep 34/50 | Reward 3413.41 | Loss 192723278.94 | Dist 495.66 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 5, 24, 6, 20, 19, 8, 17, 9, 10, 11, 18, 28, 23, 14, 15, 29, 12, 13, 21, 0], Distance=301.03, RemCap=45.0

Vehicle 1: Route=[0, 7, 16, 26, 27, 25, 22, 0], Distance=194.64, RemCap=427.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9705.68

--------------------------------------------------

Ep 35/50 | Reward 3260.72 | Loss 163726681.27 | Dist 463.32 | Vehl 2

Vehicle 0: Route=[0, 28, 13, 21, 14, 15, 29, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 0], Distance=303.26, RemCap=91.0

Vehicle 1: Route=[0, 30, 27, 12, 26, 23, 0], Distance=160.06, RemCap=381.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10510.44

--------------------------------------------------

Ep 36/50 | Reward 3126.46 | Loss 147728357.67 | Dist 428.05 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 5, 16, 4, 3, 1, 14, 15, 26, 13, 10, 9, 25, 27, 11, 18, 17, 8, 19, 20, 6, 7, 24, 0], Distance=316.45, RemCap=79.0

Vehicle 1: Route=[0, 22, 28, 23, 29, 12, 21, 0], Distance=111.59, RemCap=393.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11662.93

--------------------------------------------------

Ep 37/50 | Reward 3458.56 | Loss 187551187.60 | Dist 491.47 | Vehl 2

Vehicle 0: Route=[0, 28, 13, 12, 26, 21, 14, 15, 29, 1, 3, 4, 16, 2, 5, 24, 30, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 0], Distance=322.26, RemCap=12.0

Vehicle 1: Route=[0, 7, 27, 23, 0], Distance=169.21, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7696.15

--------------------------------------------------

Ep 38/50 | Reward 3349.48 | Loss 177290999.70 | Dist 434.72 | Vehl 2

Vehicle 0: Route=[0, 28, 18, 11, 10, 9, 27, 25, 17, 8, 19, 20, 7, 6, 30, 2, 5, 16, 4, 3, 1, 14, 15, 29, 26, 12, 13, 21, 0], Distance=300.80, RemCap=25.0

Vehicle 1: Route=[0, 22, 23, 24, 0], Distance=133.92, RemCap=447.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10322.68

--------------------------------------------------

Ep 39/50 | Reward 3045.94 | Loss 138170818.48 | Dist 440.70 | Vehl 2

Vehicle 0: Route=[0, 14, 21, 13, 12, 29, 1, 3, 4, 16, 5, 2, 30, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 25, 0], Distance=297.33, RemCap=86.0

Vehicle 1: Route=[0, 7, 24, 15, 26, 23, 28, 0], Distance=143.38, RemCap=386.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11546.04

--------------------------------------------------

Ep 40/50 | Reward 3303.29 | Loss 173028154.01 | Dist 486.78 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 16, 1, 3, 4, 5, 6, 7, 20, 19, 8, 17, 22, 18, 9, 10, 11, 28, 13, 26, 29, 15, 14, 21, 0], Distance=304.08, RemCap=82.0

Vehicle 1: Route=[0, 24, 23, 12, 27, 25, 0], Distance=182.71, RemCap=390.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10501.38

--------------------------------------------------

Ep 41/50 | Reward 3313.30 | Loss 173942822.84 | Dist 455.82 | Vehl 2

Vehicle 0: Route=[0, 13, 26, 29, 15, 14, 1, 3, 4, 5, 2, 30, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 25, 0], Distance=299.76, RemCap=96.0

Vehicle 1: Route=[0, 24, 16, 28, 23, 12, 21, 0], Distance=156.06, RemCap=376.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10865.95

--------------------------------------------------

Ep 42/50 | Reward 3299.12 | Loss 166279166.33 | Dist 440.32 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 16, 5, 24, 7, 6, 20, 19, 8, 17, 25, 9, 10, 11, 18, 22, 28, 23, 15, 12, 13, 21, 0], Distance=306.36, RemCap=42.0

Vehicle 1: Route=[0, 27, 14, 29, 26, 0], Distance=133.96, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10955.35

--------------------------------------------------

Ep 43/50 | Reward 3338.24 | Loss 165931075.10 | Dist 496.34 | Vehl 2

Vehicle 0: Route=[0, 28, 18, 11, 10, 9, 27, 17, 8, 19, 20, 6, 30, 24, 5, 2, 16, 4, 3, 1, 15, 29, 12, 13, 21, 0], Distance=306.26, RemCap=55.0

Vehicle 1: Route=[0, 7, 14, 26, 23, 22, 25, 0], Distance=190.09, RemCap=417.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8866.05

--------------------------------------------------

Ep 44/50 | Reward 3396.43 | Loss 177584701.73 | Dist 472.62 | Vehl 2

Vehicle 0: Route=[0, 18, 11, 10, 9, 27, 17, 8, 19, 20, 6, 24, 5, 2, 16, 4, 3, 1, 23, 15, 29, 26, 12, 13, 21, 0], Distance=291.66, RemCap=38.0

Vehicle 1: Route=[0, 7, 30, 14, 28, 22, 25, 0], Distance=180.96, RemCap=434.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8503.57

--------------------------------------------------

Ep 45/50 | Reward 3339.84 | Loss 168738594.32 | Dist 487.00 | Vehl 2

Vehicle 0: Route=[0, 14, 15, 13, 12, 26, 29, 1, 3, 4, 16, 2, 5, 24, 30, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 0], Distance=308.13, RemCap=36.0

Vehicle 1: Route=[0, 7, 27, 28, 23, 21, 0], Distance=178.87, RemCap=436.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10025.85

--------------------------------------------------

Ep 46/50 | Reward 3267.10 | Loss 161526599.42 | Dist 482.83 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 16, 5, 6, 7, 20, 19, 8, 17, 22, 18, 27, 9, 10, 11, 13, 26, 29, 15, 14, 21, 0], Distance=298.93, RemCap=86.0

Vehicle 1: Route=[0, 25, 28, 12, 23, 24, 0], Distance=183.90, RemCap=386.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10646.75

--------------------------------------------------

Ep 47/50 | Reward 3311.01 | Loss 164441427.62 | Dist 478.36 | Vehl 2

Vehicle 0: Route=[0, 14, 15, 26, 12, 13, 21, 28, 10, 9, 27, 11, 18, 22, 17, 8, 19, 20, 7, 6, 30, 2, 1, 3, 4, 5, 24, 0], Distance=318.69, RemCap=32.0

Vehicle 1: Route=[0, 16, 29, 23, 25, 0], Distance=159.67, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10050.03

--------------------------------------------------

Ep 48/50 | Reward 3420.50 | Loss 184882186.13 | Dist 483.02 | Vehl 2

Vehicle 0: Route=[0, 14, 15, 13, 12, 26, 29, 1, 3, 4, 5, 2, 30, 6, 20, 19, 8, 17, 18, 11, 10, 9, 27, 25, 0], Distance=296.34, RemCap=69.0

Vehicle 1: Route=[0, 16, 24, 7, 22, 28, 23, 21, 0], Distance=186.68, RemCap=403.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8587.57

--------------------------------------------------

Ep 49/50 | Reward 3207.83 | Loss 152957044.04 | Dist 437.15 | Vehl 2

Vehicle 0: Route=[0, 19, 2, 1, 3, 4, 16, 5, 24, 7, 6, 20, 8, 17, 25, 9, 10, 11, 18, 28, 23, 14, 15, 29, 26, 12, 13, 21, 0], Distance=321.70, RemCap=4.0

Vehicle 1: Route=[0, 30, 22, 27, 0], Distance=115.45, RemCap=468.0

Total vehicle waiting time = 0.00

Total customer waiting time = 12195.47

--------------------------------------------------

Ep 50/50 | Reward 3370.45 | Loss 173943062.85 | Dist 491.72 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 16, 5, 6, 20, 19, 8, 17, 22, 18, 27, 9, 10, 11, 28, 23, 14, 15, 26, 12, 13, 21, 0], Distance=296.42, RemCap=61.0

Vehicle 1: Route=[0, 30, 7, 24, 29, 25, 0], Distance=195.30, RemCap=411.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9143.95

--------------------------------------------------

--- Training with max\_vehicles = 3 ---

Ep 1/50 | Reward 2670.92 | Loss 108649410.94 | Dist 634.20 | Vehl 3

Vehicle 0: Route=[0, 30, 7, 20, 19, 8, 17, 18, 27, 9, 10, 13, 12, 21, 14, 15, 1, 3, 4, 16, 5, 24, 0], Distance=297.04, RemCap=149.0

Vehicle 1: Route=[0, 6, 25, 11, 29, 23, 0], Distance=184.58, RemCap=400.0

Vehicle 2: Route=[0, 22, 2, 26, 28, 0], Distance=152.57, RemCap=423.0

Total vehicle waiting time = 165.39

Total customer waiting time = 10381.14

--------------------------------------------------

Ep 2/50 | Reward 2984.82 | Loss 155957580.00 | Dist 538.43 | Vehl 3

Vehicle 0: Route=[0, 23, 14, 13, 12, 26, 15, 1, 3, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 9, 10, 11, 18, 28, 0], Distance=298.60, RemCap=75.0

Vehicle 1: Route=[0, 24, 4, 22, 25, 27, 0], Distance=172.15, RemCap=427.0

Vehicle 2: Route=[0, 29, 21, 0], Distance=67.67, RemCap=470.0

Total vehicle waiting time = 181.66

Total customer waiting time = 8707.75

--------------------------------------------------

Ep 3/50 | Reward 3541.91 | Loss 236049615.15 | Dist 501.11 | Vehl 3

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 16, 4, 3, 1, 15, 14, 21, 12, 13, 28, 18, 11, 10, 9, 27, 25, 0], Distance=297.69, RemCap=94.0

Vehicle 1: Route=[0, 26, 29, 0], Distance=69.49, RemCap=450.0

Vehicle 2: Route=[0, 22, 23, 24, 30, 0], Distance=133.93, RemCap=428.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6599.43

--------------------------------------------------

Ep 4/50 | Reward 3121.25 | Loss 185495429.69 | Dist 582.23 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 11, 9, 27, 25, 17, 8, 19, 20, 7, 5, 2, 16, 4, 1, 14, 15, 29, 12, 13, 28, 0], Distance=292.19, RemCap=131.0

Vehicle 1: Route=[0, 10, 26, 6, 30, 0], Distance=176.42, RemCap=411.0

Vehicle 2: Route=[0, 23, 21, 3, 24, 0], Distance=113.61, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7567.69

--------------------------------------------------

Ep 5/50 | Reward 3644.20 | Loss 264969572.10 | Dist 555.54 | Vehl 3

Vehicle 0: Route=[0, 14, 13, 12, 15, 1, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 25, 9, 10, 11, 18, 22, 28, 0], Distance=297.50, RemCap=91.0

Vehicle 1: Route=[0, 3, 21, 23, 0], Distance=94.90, RemCap=460.0

Vehicle 2: Route=[0, 30, 27, 29, 26, 0], Distance=163.14, RemCap=421.0

Total vehicle waiting time = 38.24

Total customer waiting time = 6124.31

--------------------------------------------------

Ep 6/50 | Reward 3270.28 | Loss 195972876.86 | Dist 571.02 | Vehl 3

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 30, 2, 5, 16, 4, 3, 1, 15, 14, 23, 12, 13, 11, 10, 27, 25, 18, 22, 0], Distance=292.42, RemCap=106.0

Vehicle 1: Route=[0, 9, 21, 29, 0], Distance=137.26, RemCap=440.0

Vehicle 2: Route=[0, 24, 28, 26, 0], Distance=141.34, RemCap=426.0

Total vehicle waiting time = 11.81

Total customer waiting time = 7810.46

--------------------------------------------------

Ep 7/50 | Reward 3152.18 | Loss 185567203.48 | Dist 614.46 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 17, 8, 19, 6, 7, 24, 5, 2, 16, 4, 3, 1, 14, 15, 12, 13, 21, 23, 0], Distance=266.93, RemCap=94.0

Vehicle 1: Route=[0, 20, 25, 29, 28, 0], Distance=201.49, RemCap=437.0

Vehicle 2: Route=[0, 27, 26, 30, 0], Distance=146.03, RemCap=441.0

Total vehicle waiting time = 181.66

Total customer waiting time = 8085.36

--------------------------------------------------

Ep 8/50 | Reward 3307.36 | Loss 204474185.99 | Dist 516.66 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 27, 9, 10, 13, 12, 26, 29, 15, 14, 1, 4, 16, 2, 5, 6, 7, 20, 8, 17, 19, 30, 0], Distance=303.61, RemCap=69.0

Vehicle 1: Route=[0, 24, 3, 21, 23, 0], Distance=113.61, RemCap=430.0

Vehicle 2: Route=[0, 28, 22, 25, 0], Distance=99.44, RemCap=473.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7393.05

--------------------------------------------------

Ep 9/50 | Reward 3493.18 | Loss 229039817.58 | Dist 538.81 | Vehl 3

Vehicle 0: Route=[0, 28, 13, 12, 26, 15, 14, 1, 3, 4, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 0], Distance=308.18, RemCap=62.0

Vehicle 1: Route=[0, 27, 23, 24, 0], Distance=162.96, RemCap=440.0

Vehicle 2: Route=[0, 21, 29, 0], Distance=67.67, RemCap=470.0

Total vehicle waiting time = 13.27

Total customer waiting time = 6849.01

--------------------------------------------------

Ep 10/50 | Reward 3380.18 | Loss 205910088.47 | Dist 495.55 | Vehl 3

Vehicle 0: Route=[0, 14, 15, 13, 12, 26, 29, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 25, 9, 10, 11, 18, 28, 0], Distance=293.67, RemCap=34.0

Vehicle 1: Route=[0, 30, 23, 22, 27, 0], Distance=141.79, RemCap=448.0

Vehicle 2: Route=[0, 21, 0], Distance=60.09, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7198.52

--------------------------------------------------

Ep 11/50 | Reward 3254.64 | Loss 209351275.86 | Dist 543.28 | Vehl 3

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 16, 5, 6, 7, 20, 19, 8, 17, 22, 27, 9, 10, 11, 23, 13, 12, 14, 15, 29, 0], Distance=304.93, RemCap=96.0

Vehicle 1: Route=[0, 21, 28, 18, 25, 0], Distance=125.52, RemCap=436.0

Vehicle 2: Route=[0, 26, 24, 0], Distance=112.83, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7206.86

--------------------------------------------------

Ep 12/50 | Reward 3478.47 | Loss 233032739.94 | Dist 560.24 | Vehl 3

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 30, 2, 16, 3, 1, 29, 15, 14, 21, 12, 13, 28, 18, 11, 10, 9, 25, 0], Distance=297.01, RemCap=105.0

Vehicle 1: Route=[0, 22, 26, 4, 5, 24, 0], Distance=150.38, RemCap=397.0

Vehicle 2: Route=[0, 23, 27, 0], Distance=112.85, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6517.79

--------------------------------------------------

Ep 13/50 | Reward 3480.68 | Loss 220089162.83 | Dist 591.34 | Vehl 3

Vehicle 0: Route=[0, 13, 12, 26, 21, 14, 15, 1, 3, 4, 16, 2, 5, 6, 7, 20, 19, 8, 22, 18, 11, 10, 9, 25, 0], Distance=294.03, RemCap=95.0

Vehicle 1: Route=[0, 17, 27, 29, 30, 0], Distance=182.63, RemCap=441.0

Vehicle 2: Route=[0, 28, 23, 24, 0], Distance=114.69, RemCap=436.0

Total vehicle waiting time = 89.86

Total customer waiting time = 6978.29

--------------------------------------------------

Ep 14/50 | Reward 3610.87 | Loss 269197428.90 | Dist 509.74 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 25, 27, 9, 10, 11, 13, 12, 15, 14, 3, 4, 16, 2, 5, 19, 17, 8, 20, 6, 7, 24, 0], Distance=331.80, RemCap=105.0

Vehicle 1: Route=[0, 28, 29, 1, 30, 0], Distance=110.02, RemCap=427.0

Vehicle 2: Route=[0, 26, 21, 23, 0], Distance=67.92, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6437.17

--------------------------------------------------

Ep 15/50 | Reward 3092.02 | Loss 169298932.32 | Dist 608.77 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 13, 12, 26, 21, 14, 15, 1, 4, 16, 2, 5, 6, 7, 20, 8, 17, 19, 30, 0], Distance=303.50, RemCap=86.0

Vehicle 1: Route=[0, 24, 3, 25, 28, 0], Distance=175.31, RemCap=436.0

Vehicle 2: Route=[0, 27, 29, 23, 0], Distance=129.96, RemCap=450.0

Total vehicle waiting time = 180.46

Total customer waiting time = 8080.66

--------------------------------------------------

Ep 16/50 | Reward 3725.85 | Loss 260637523.56 | Dist 495.35 | Vehl 3

Vehicle 0: Route=[0, 13, 12, 26, 21, 14, 15, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 25, 0], Distance=297.32, RemCap=55.0

Vehicle 1: Route=[0, 30, 23, 28, 27, 0], Distance=134.56, RemCap=437.0

Vehicle 2: Route=[0, 29, 0], Distance=63.46, RemCap=480.0

Total vehicle waiting time = 79.44

Total customer waiting time = 6172.97

--------------------------------------------------

Ep 17/50 | Reward 3105.29 | Loss 166864149.02 | Dist 551.76 | Vehl 3

Vehicle 0: Route=[0, 14, 15, 13, 12, 29, 1, 4, 16, 2, 6, 7, 20, 19, 8, 17, 25, 27, 9, 10, 11, 22, 0], Distance=280.14, RemCap=155.0

Vehicle 1: Route=[0, 18, 28, 3, 26, 21, 0], Distance=156.68, RemCap=406.0

Vehicle 2: Route=[0, 23, 30, 5, 24, 0], Distance=114.94, RemCap=411.0

Total vehicle waiting time = 159.84

Total customer waiting time = 7925.85

--------------------------------------------------

Ep 18/50 | Reward 3315.54 | Loss 182785108.49 | Dist 550.18 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 10, 9, 25, 17, 8, 19, 20, 6, 7, 24, 5, 2, 16, 3, 1, 29, 26, 12, 13, 15, 14, 30, 0], Distance=301.68, RemCap=49.0

Vehicle 1: Route=[0, 4, 21, 22, 0], Distance=129.21, RemCap=467.0

Vehicle 2: Route=[0, 23, 27, 28, 0], Distance=119.28, RemCap=456.0

Total vehicle waiting time = 21.05

Total customer waiting time = 7745.33

--------------------------------------------------

Ep 19/50 | Reward 3018.77 | Loss 147946340.06 | Dist 596.23 | Vehl 3

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 16, 3, 1, 14, 15, 29, 12, 13, 23, 28, 11, 10, 9, 25, 22, 0], Distance=294.20, RemCap=121.0

Vehicle 1: Route=[0, 24, 4, 18, 21, 26, 0], Distance=187.10, RemCap=380.0

Vehicle 2: Route=[0, 30, 27, 0], Distance=114.92, RemCap=471.0

Total vehicle waiting time = 36.87

Total customer waiting time = 8453.04

--------------------------------------------------

Ep 20/50 | Reward 3384.96 | Loss 213693119.28 | Dist 581.15 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 10, 9, 25, 17, 8, 19, 20, 7, 30, 5, 16, 4, 3, 1, 2, 14, 15, 26, 12, 13, 21, 0], Distance=294.31, RemCap=89.0

Vehicle 1: Route=[0, 24, 6, 22, 28, 23, 0], Distance=159.52, RemCap=413.0

Vehicle 2: Route=[0, 27, 29, 0], Distance=127.32, RemCap=470.0

Total vehicle waiting time = 180.46

Total customer waiting time = 7245.96

--------------------------------------------------

Ep 21/50 | Reward 2674.93 | Loss 118723556.63 | Dist 519.46 | Vehl 3

Vehicle 0: Route=[0, 12, 26, 15, 14, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 11, 9, 27, 25, 0], Distance=295.06, RemCap=85.0

Vehicle 1: Route=[0, 30, 10, 13, 29, 21, 0], Distance=159.82, RemCap=421.0

Vehicle 2: Route=[0, 28, 23, 0], Distance=64.58, RemCap=466.0

Total vehicle waiting time = 181.66

Total customer waiting time = 9893.01

--------------------------------------------------

Ep 22/50 | Reward 3489.66 | Loss 211243752.64 | Dist 574.42 | Vehl 3

Vehicle 0: Route=[0, 23, 13, 12, 29, 15, 14, 2, 1, 3, 4, 16, 5, 7, 20, 19, 8, 17, 27, 9, 10, 11, 18, 28, 0], Distance=296.83, RemCap=94.0

Vehicle 1: Route=[0, 6, 24, 21, 22, 25, 0], Distance=191.59, RemCap=427.0

Vehicle 2: Route=[0, 26, 30, 0], Distance=86.00, RemCap=451.0

Total vehicle waiting time = 81.04

Total customer waiting time = 7166.15

--------------------------------------------------

Ep 23/50 | Reward 3175.27 | Loss 165418957.14 | Dist 571.87 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 9, 27, 17, 8, 19, 20, 6, 7, 24, 30, 2, 5, 16, 4, 3, 14, 15, 26, 12, 13, 23, 0], Distance=306.26, RemCap=69.0

Vehicle 1: Route=[0, 22, 10, 1, 29, 21, 0], Distance=171.43, RemCap=427.0

Vehicle 2: Route=[0, 28, 25, 0], Distance=94.19, RemCap=476.0

Total vehicle waiting time = 89.86

Total customer waiting time = 8029.16

--------------------------------------------------

Ep 24/50 | Reward 2998.50 | Loss 142832340.05 | Dist 674.58 | Vehl 3

Vehicle 0: Route=[0, 23, 13, 12, 29, 15, 14, 1, 3, 4, 16, 2, 6, 7, 20, 8, 17, 25, 10, 11, 18, 28, 0], Distance=268.41, RemCap=127.0

Vehicle 1: Route=[0, 22, 9, 21, 5, 19, 30, 0], Distance=214.90, RemCap=415.0

Vehicle 2: Route=[0, 24, 27, 26, 0], Distance=191.27, RemCap=430.0

Total vehicle waiting time = 97.09

Total customer waiting time = 7845.13

--------------------------------------------------

Ep 25/50 | Reward 2677.60 | Loss 115169878.82 | Dist 635.28 | Vehl 3

Vehicle 0: Route=[0, 23, 21, 13, 12, 15, 14, 4, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 22, 18, 9, 10, 11, 28, 0], Distance=300.09, RemCap=102.0

Vehicle 1: Route=[0, 25, 29, 1, 24, 0], Distance=177.11, RemCap=420.0

Vehicle 2: Route=[0, 3, 26, 27, 0], Distance=158.09, RemCap=450.0

Total vehicle waiting time = 181.66

Total customer waiting time = 9699.18

--------------------------------------------------

Ep 26/50 | Reward 3034.63 | Loss 159762787.25 | Dist 590.78 | Vehl 3

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 16, 5, 6, 7, 20, 19, 8, 17, 9, 10, 18, 28, 12, 26, 14, 15, 29, 0], Distance=300.06, RemCap=95.0

Vehicle 1: Route=[0, 22, 27, 11, 13, 21, 0], Distance=124.68, RemCap=437.0

Vehicle 2: Route=[0, 25, 23, 24, 0], Distance=166.04, RemCap=440.0

Total vehicle waiting time = 180.46

Total customer waiting time = 7988.88

--------------------------------------------------

Ep 27/50 | Reward 3790.37 | Loss 286267228.17 | Dist 538.36 | Vehl 3

Vehicle 0: Route=[0, 19, 17, 8, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 29, 15, 14, 21, 12, 13, 28, 11, 10, 9, 18, 22, 0], Distance=293.51, RemCap=61.0

Vehicle 1: Route=[0, 30, 27, 23, 26, 0], Distance=159.06, RemCap=421.0

Vehicle 2: Route=[0, 25, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 36.57

Total customer waiting time = 6124.45

--------------------------------------------------

Ep 28/50 | Reward 2930.79 | Loss 147557073.90 | Dist 582.45 | Vehl 3

Vehicle 0: Route=[0, 2, 16, 1, 3, 4, 5, 6, 7, 20, 19, 8, 17, 27, 10, 11, 28, 23, 14, 15, 13, 12, 26, 0], Distance=286.48, RemCap=124.0

Vehicle 1: Route=[0, 30, 24, 18, 25, 9, 21, 0], Distance=197.45, RemCap=371.0

Vehicle 2: Route=[0, 29, 22, 0], Distance=98.52, RemCap=477.0

Total vehicle waiting time = 143.26

Total customer waiting time = 8437.40

--------------------------------------------------

Ep 29/50 | Reward 3056.92 | Loss 170643365.48 | Dist 550.11 | Vehl 3

Vehicle 0: Route=[0, 19, 18, 11, 10, 9, 25, 17, 8, 20, 7, 6, 5, 2, 16, 4, 3, 14, 23, 21, 13, 12, 26, 15, 29, 0], Distance=312.07, RemCap=68.0

Vehicle 1: Route=[0, 27, 30, 1, 24, 0], Distance=175.84, RemCap=421.0

Vehicle 2: Route=[0, 22, 28, 0], Distance=62.21, RemCap=483.0

Total vehicle waiting time = 143.26

Total customer waiting time = 8376.84

--------------------------------------------------

Ep 30/50 | Reward 2602.80 | Loss 106385377.50 | Dist 603.03 | Vehl 3

Vehicle 0: Route=[0, 12, 29, 15, 14, 4, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 27, 10, 11, 18, 28, 0], Distance=288.87, RemCap=145.0

Vehicle 1: Route=[0, 9, 21, 26, 1, 3, 24, 0], Distance=186.98, RemCap=370.0

Vehicle 2: Route=[0, 22, 25, 13, 23, 0], Distance=127.19, RemCap=457.0

Total vehicle waiting time = 181.66

Total customer waiting time = 9311.55

--------------------------------------------------

Ep 31/50 | Reward 3482.34 | Loss 227546246.28 | Dist 500.71 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 10, 9, 27, 25, 17, 8, 19, 20, 6, 7, 24, 5, 16, 4, 3, 1, 2, 14, 15, 12, 13, 21, 0], Distance=291.45, RemCap=78.0

Vehicle 1: Route=[0, 22, 29, 23, 0], Distance=101.16, RemCap=457.0

Vehicle 2: Route=[0, 30, 28, 26, 0], Distance=108.10, RemCap=437.0

Total vehicle waiting time = 162.55

Total customer waiting time = 6704.26

--------------------------------------------------

Ep 32/50 | Reward 2833.84 | Loss 120788349.34 | Dist 558.54 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 10, 25, 8, 19, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 14, 21, 13, 12, 15, 29, 0], Distance=281.92, RemCap=108.0

Vehicle 1: Route=[0, 30, 27, 9, 23, 26, 0], Distance=169.66, RemCap=391.0

Vehicle 2: Route=[0, 17, 22, 28, 0], Distance=106.95, RemCap=473.0

Total vehicle waiting time = 143.26

Total customer waiting time = 8792.65

--------------------------------------------------

Ep 33/50 | Reward 3077.59 | Loss 156803529.81 | Dist 583.20 | Vehl 3

Vehicle 0: Route=[0, 21, 13, 12, 29, 15, 14, 1, 3, 4, 16, 5, 7, 20, 19, 8, 17, 25, 9, 10, 11, 18, 28, 0], Distance=285.54, RemCap=134.0

Vehicle 1: Route=[0, 6, 24, 26, 23, 22, 0], Distance=160.04, RemCap=397.0

Vehicle 2: Route=[0, 30, 2, 27, 0], Distance=137.62, RemCap=441.0

Total vehicle waiting time = 162.55

Total customer waiting time = 7857.95

--------------------------------------------------

Ep 34/50 | Reward 3088.89 | Loss 145302430.67 | Dist 599.77 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 10, 9, 25, 8, 19, 20, 7, 6, 5, 2, 16, 4, 3, 1, 29, 15, 14, 21, 12, 13, 23, 0], Distance=283.26, RemCap=88.0

Vehicle 1: Route=[0, 26, 24, 17, 22, 0], Distance=197.03, RemCap=427.0

Vehicle 2: Route=[0, 27, 28, 30, 0], Distance=119.48, RemCap=457.0

Total vehicle waiting time = 35.84

Total customer waiting time = 7811.77

--------------------------------------------------

Ep 35/50 | Reward 3409.13 | Loss 205900616.90 | Dist 562.51 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 4, 16, 5, 6, 7, 20, 19, 8, 17, 18, 11, 27, 9, 10, 28, 23, 13, 12, 14, 15, 29, 0], Distance=302.14, RemCap=84.0

Vehicle 1: Route=[0, 26, 3, 30, 24, 0], Distance=137.04, RemCap=411.0

Vehicle 2: Route=[0, 21, 25, 22, 0], Distance=123.32, RemCap=477.0

Total vehicle waiting time = 143.26

Total customer waiting time = 7218.66

--------------------------------------------------

Ep 36/50 | Reward 3255.97 | Loss 177454089.51 | Dist 537.70 | Vehl 3

Vehicle 0: Route=[0, 23, 13, 12, 21, 14, 15, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 25, 9, 10, 11, 18, 28, 0], Distance=293.15, RemCap=54.0

Vehicle 1: Route=[0, 27, 26, 30, 0], Distance=146.03, RemCap=441.0

Vehicle 2: Route=[0, 29, 22, 0], Distance=98.52, RemCap=477.0

Total vehicle waiting time = 162.55

Total customer waiting time = 7591.00

--------------------------------------------------

Ep 37/50 | Reward 3716.68 | Loss 257538943.03 | Dist 568.31 | Vehl 3

Vehicle 0: Route=[0, 19, 17, 8, 20, 6, 7, 24, 5, 2, 16, 4, 3, 1, 14, 15, 12, 13, 23, 28, 18, 10, 9, 25, 0], Distance=300.79, RemCap=94.0

Vehicle 1: Route=[0, 22, 11, 21, 29, 0], Distance=121.49, RemCap=437.0

Vehicle 2: Route=[0, 27, 26, 30, 0], Distance=146.03, RemCap=441.0

Total vehicle waiting time = 26.43

Total customer waiting time = 6076.12

--------------------------------------------------

Ep 38/50 | Reward 3093.48 | Loss 167576566.21 | Dist 610.68 | Vehl 3

Vehicle 0: Route=[0, 14, 13, 12, 15, 1, 3, 4, 16, 2, 5, 7, 20, 19, 8, 22, 18, 25, 27, 9, 10, 28, 0], Distance=295.27, RemCap=161.0

Vehicle 1: Route=[0, 30, 17, 11, 21, 29, 23, 0], Distance=188.41, RemCap=391.0

Vehicle 2: Route=[0, 6, 24, 26, 0], Distance=127.00, RemCap=420.0

Total vehicle waiting time = 180.46

Total customer waiting time = 7802.70

--------------------------------------------------

Ep 39/50 | Reward 2979.44 | Loss 147521145.23 | Dist 607.50 | Vehl 3

Vehicle 0: Route=[0, 17, 8, 19, 7, 6, 30, 2, 5, 16, 4, 3, 14, 15, 29, 12, 13, 28, 18, 11, 10, 9, 27, 0], Distance=288.15, RemCap=114.0

Vehicle 1: Route=[0, 22, 20, 24, 1, 26, 0], Distance=195.95, RemCap=398.0

Vehicle 2: Route=[0, 25, 21, 23, 0], Distance=123.40, RemCap=460.0

Total vehicle waiting time = 181.66

Total customer waiting time = 8109.85

--------------------------------------------------

Ep 40/50 | Reward 3569.36 | Loss 232338168.89 | Dist 560.34 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 16, 5, 24, 7, 20, 19, 8, 17, 22, 18, 9, 10, 11, 28, 13, 12, 14, 15, 29, 0], Distance=299.53, RemCap=91.0

Vehicle 1: Route=[0, 6, 23, 21, 27, 25, 0], Distance=174.81, RemCap=430.0

Vehicle 2: Route=[0, 26, 30, 0], Distance=86.00, RemCap=451.0

Total vehicle waiting time = 111.40

Total customer waiting time = 6471.74

--------------------------------------------------

Ep 41/50 | Reward 3047.02 | Loss 165973330.14 | Dist 501.30 | Vehl 3

Vehicle 0: Route=[0, 30, 6, 7, 20, 19, 8, 17, 27, 10, 11, 28, 13, 12, 21, 14, 15, 1, 3, 4, 16, 2, 5, 24, 0], Distance=292.01, RemCap=115.0

Vehicle 1: Route=[0, 29, 9, 25, 18, 22, 0], Distance=141.52, RemCap=407.0

Vehicle 2: Route=[0, 26, 23, 0], Distance=67.76, RemCap=450.0

Total vehicle waiting time = 181.66

Total customer waiting time = 8270.60

--------------------------------------------------

Ep 42/50 | Reward 3182.58 | Loss 177789860.59 | Dist 574.97 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 17, 8, 19, 20, 7, 24, 2, 16, 4, 3, 1, 14, 21, 13, 12, 26, 15, 29, 0], Distance=287.92, RemCap=85.0

Vehicle 1: Route=[0, 30, 5, 6, 25, 28, 0], Distance=174.20, RemCap=417.0

Vehicle 2: Route=[0, 23, 27, 0], Distance=112.85, RemCap=470.0

Total vehicle waiting time = 180.46

Total customer waiting time = 7729.48

--------------------------------------------------

Ep 43/50 | Reward 3124.30 | Loss 153097566.66 | Dist 583.82 | Vehl 3

Vehicle 0: Route=[0, 14, 21, 13, 12, 29, 15, 1, 3, 4, 16, 5, 2, 30, 6, 7, 20, 19, 17, 18, 10, 9, 25, 0], Distance=298.21, RemCap=119.0

Vehicle 1: Route=[0, 24, 8, 27, 11, 28, 0], Distance=185.38, RemCap=406.0

Vehicle 2: Route=[0, 22, 23, 26, 0], Distance=100.23, RemCap=447.0

Total vehicle waiting time = 180.46

Total customer waiting time = 7673.23

--------------------------------------------------

Ep 44/50 | Reward 2313.67 | Loss 68123674.28 | Dist 609.00 | Vehl 3

Vehicle 0: Route=[0, 30, 23, 12, 15, 14, 3, 4, 16, 2, 5, 24, 7, 6, 20, 8, 17, 18, 11, 10, 9, 27, 0], Distance=297.80, RemCap=92.0

Vehicle 1: Route=[0, 22, 19, 1, 26, 13, 21, 0], Distance=172.28, RemCap=424.0

Vehicle 2: Route=[0, 29, 25, 28, 0], Distance=138.93, RemCap=456.0

Total vehicle waiting time = 181.66

Total customer waiting time = 11030.07

--------------------------------------------------

Ep 45/50 | Reward 2991.45 | Loss 153313514.33 | Dist 574.85 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 27, 25, 17, 8, 20, 7, 6, 5, 16, 3, 1, 15, 12, 13, 14, 30, 0], Distance=284.42, RemCap=149.0

Vehicle 1: Route=[0, 28, 29, 2, 19, 24, 0], Distance=181.38, RemCap=403.0

Vehicle 2: Route=[0, 4, 23, 26, 21, 0], Distance=109.05, RemCap=420.0

Total vehicle waiting time = 181.66

Total customer waiting time = 7838.56

--------------------------------------------------

Ep 46/50 | Reward 3103.32 | Loss 163222113.81 | Dist 582.95 | Vehl 3

Vehicle 0: Route=[0, 18, 10, 9, 17, 8, 19, 20, 7, 6, 30, 2, 5, 16, 4, 3, 1, 29, 15, 14, 23, 13, 12, 21, 0], Distance=295.34, RemCap=99.0

Vehicle 1: Route=[0, 24, 22, 27, 28, 0], Distance=156.19, RemCap=443.0

Vehicle 2: Route=[0, 25, 11, 26, 0], Distance=131.41, RemCap=430.0

Total vehicle waiting time = 181.66

Total customer waiting time = 7753.24

--------------------------------------------------

Ep 47/50 | Reward 2571.50 | Loss 94737474.52 | Dist 600.76 | Vehl 3

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 25, 17, 19, 6, 7, 24, 5, 2, 16, 4, 1, 14, 15, 26, 12, 13, 21, 0], Distance=266.38, RemCap=94.0

Vehicle 1: Route=[0, 20, 27, 28, 23, 3, 29, 0], Distance=235.84, RemCap=407.0

Vehicle 2: Route=[0, 8, 30, 0], Distance=98.54, RemCap=471.0

Total vehicle waiting time = 181.66

Total customer waiting time = 10214.45

--------------------------------------------------

Ep 48/50 | Reward 2859.59 | Loss 122465712.20 | Dist 634.88 | Vehl 3

Vehicle 0: Route=[0, 1, 3, 4, 16, 2, 6, 7, 20, 19, 17, 22, 18, 9, 10, 11, 28, 13, 12, 29, 15, 14, 23, 0], Distance=294.24, RemCap=111.0

Vehicle 1: Route=[0, 21, 26, 5, 24, 8, 25, 0], Distance=225.72, RemCap=390.0

Vehicle 2: Route=[0, 30, 27, 0], Distance=114.92, RemCap=471.0

Total vehicle waiting time = 181.66

Total customer waiting time = 8399.51

--------------------------------------------------

Ep 49/50 | Reward 2792.95 | Loss 117328960.81 | Dist 608.05 | Vehl 3

Vehicle 0: Route=[0, 30, 6, 7, 20, 19, 17, 22, 18, 9, 10, 13, 12, 26, 15, 14, 1, 3, 4, 16, 2, 5, 24, 0], Distance=302.44, RemCap=96.0

Vehicle 1: Route=[0, 29, 21, 8, 25, 0], Distance=186.24, RemCap=450.0

Vehicle 2: Route=[0, 23, 11, 27, 28, 0], Distance=119.37, RemCap=426.0

Total vehicle waiting time = 181.66

Total customer waiting time = 8600.84

--------------------------------------------------

Ep 50/50 | Reward 3167.79 | Loss 171675417.24 | Dist 581.39 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 9, 10, 28, 13, 12, 21, 14, 15, 29, 1, 3, 4, 16, 5, 2, 30, 19, 17, 8, 20, 6, 7, 24, 0], Distance=333.13, RemCap=45.0

Vehicle 1: Route=[0, 23, 22, 25, 0], Distance=121.04, RemCap=467.0

Vehicle 2: Route=[0, 26, 27, 0], Distance=127.22, RemCap=460.0

Total vehicle waiting time = 162.55

Total customer waiting time = 8164.19

--------------------------------------------------

--- Training with max\_vehicles = 4 ---

Ep 1/50 | Reward 3234.65 | Loss 201016897.50 | Dist 635.84 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 9, 10, 11, 28, 23, 13, 12, 21, 14, 15, 1, 3, 4, 16, 2, 24, 0], Distance=298.40, RemCap=114.0

Vehicle 1: Route=[0, 5, 27, 25, 22, 0], Distance=147.63, RemCap=457.0

Vehicle 2: Route=[0, 18, 29, 30, 0], Distance=122.63, RemCap=431.0

Vehicle 3: Route=[0, 26, 0], Distance=67.19, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7809.30

--------------------------------------------------

Ep 2/50 | Reward 3329.88 | Loss 205372764.50 | Dist 666.31 | Vehl 4

Vehicle 0: Route=[0, 30, 6, 7, 20, 19, 8, 17, 18, 11, 10, 9, 13, 12, 29, 1, 3, 4, 16, 2, 15, 14, 21, 23, 0], Distance=315.37, RemCap=89.0

Vehicle 1: Route=[0, 5, 25, 28, 0], Distance=152.44, RemCap=456.0

Vehicle 2: Route=[0, 26, 24, 0], Distance=112.83, RemCap=440.0

Vehicle 3: Route=[0, 27, 22, 0], Distance=85.66, RemCap=487.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7633.30

--------------------------------------------------

Ep 3/50 | Reward 3096.11 | Loss 164621048.24 | Dist 630.97 | Vehl 4

Vehicle 0: Route=[0, 19, 20, 8, 17, 18, 25, 9, 10, 11, 28, 13, 12, 15, 14, 3, 4, 16, 2, 5, 7, 6, 30, 0], Distance=297.24, RemCap=115.0

Vehicle 1: Route=[0, 24, 1, 29, 27, 0], Distance=173.90, RemCap=420.0

Vehicle 2: Route=[0, 21, 22, 0], Distance=92.07, RemCap=487.0

Vehicle 3: Route=[0, 23, 26, 0], Distance=67.76, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7660.33

--------------------------------------------------

Ep 4/50 | Reward 3279.92 | Loss 208102433.06 | Dist 557.68 | Vehl 4

Vehicle 0: Route=[0, 22, 18, 27, 9, 10, 11, 28, 13, 12, 15, 14, 1, 3, 4, 16, 2, 5, 24, 7, 6, 19, 8, 17, 30, 0], Distance=300.08, RemCap=81.0

Vehicle 1: Route=[0, 20, 25, 29, 21, 0], Distance=189.83, RemCap=441.0

Vehicle 2: Route=[0, 23, 26, 0], Distance=67.76, RemCap=450.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 8132.52

--------------------------------------------------

Ep 5/50 | Reward 3167.49 | Loss 176750724.03 | Dist 598.05 | Vehl 4

Vehicle 0: Route=[0, 14, 13, 12, 15, 1, 3, 4, 16, 2, 5, 24, 30, 6, 7, 20, 19, 8, 25, 9, 10, 11, 18, 22, 0], Distance=299.23, RemCap=86.0

Vehicle 1: Route=[0, 17, 29, 23, 0], Distance=139.45, RemCap=450.0

Vehicle 2: Route=[0, 28, 27, 0], Distance=91.56, RemCap=476.0

Vehicle 3: Route=[0, 21, 26, 0], Distance=67.81, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8281.43

--------------------------------------------------

Ep 6/50 | Reward 3179.79 | Loss 172172156.81 | Dist 561.80 | Vehl 4

Vehicle 0: Route=[0, 14, 13, 12, 26, 29, 1, 3, 4, 16, 2, 5, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 0], Distance=288.32, RemCap=85.0

Vehicle 1: Route=[0, 24, 15, 23, 25, 0], Distance=171.12, RemCap=430.0

Vehicle 2: Route=[0, 30, 0], Distance=29.81, RemCap=481.0

Vehicle 3: Route=[0, 28, 21, 0], Distance=72.54, RemCap=476.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8715.80

--------------------------------------------------

Ep 7/50 | Reward 3454.01 | Loss 217950644.38 | Dist 561.59 | Vehl 4

Vehicle 0: Route=[0, 13, 21, 14, 15, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 27, 9, 10, 11, 18, 28, 0], Distance=289.89, RemCap=114.0

Vehicle 1: Route=[0, 12, 26, 30, 0], Distance=92.42, RemCap=411.0

Vehicle 2: Route=[0, 25, 23, 29, 0], Distance=130.68, RemCap=450.0

Vehicle 3: Route=[0, 22, 0], Distance=48.59, RemCap=497.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7267.71

--------------------------------------------------

Ep 8/50 | Reward 3239.24 | Loss 203100093.18 | Dist 585.70 | Vehl 4

Vehicle 0: Route=[0, 30, 2, 5, 16, 4, 3, 1, 14, 15, 29, 12, 13, 11, 10, 9, 25, 17, 8, 19, 20, 6, 7, 24, 0], Distance=305.88, RemCap=89.0

Vehicle 1: Route=[0, 22, 18, 21, 0], Distance=98.99, RemCap=457.0

Vehicle 2: Route=[0, 23, 28, 27, 0], Distance=113.65, RemCap=456.0

Vehicle 3: Route=[0, 26, 0], Distance=67.19, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7730.35

--------------------------------------------------

Ep 9/50 | Reward 3289.84 | Loss 189215364.85 | Dist 578.30 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 21, 13, 12, 26, 14, 1, 3, 4, 16, 2, 5, 24, 0], Distance=302.94, RemCap=75.0

Vehicle 1: Route=[0, 29, 15, 23, 0], Distance=66.25, RemCap=450.0

Vehicle 2: Route=[0, 28, 25, 0], Distance=94.19, RemCap=476.0

Vehicle 3: Route=[0, 30, 27, 0], Distance=114.92, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8621.77

--------------------------------------------------

Ep 10/50 | Reward 3115.66 | Loss 158150892.26 | Dist 651.14 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 18, 11, 9, 10, 28, 23, 13, 15, 14, 2, 1, 3, 4, 16, 5, 24, 0], Distance=307.61, RemCap=114.0

Vehicle 1: Route=[0, 22, 27, 26, 0], Distance=127.75, RemCap=457.0

Vehicle 2: Route=[0, 29, 12, 25, 0], Distance=135.67, RemCap=430.0

Vehicle 3: Route=[0, 30, 21, 0], Distance=80.11, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8193.84

--------------------------------------------------

Ep 11/50 | Reward 2460.96 | Loss 77563113.38 | Dist 675.20 | Vehl 4

Vehicle 0: Route=[0, 22, 18, 11, 10, 8, 19, 20, 6, 7, 24, 2, 4, 3, 1, 15, 12, 13, 21, 14, 30, 0], Distance=291.32, RemCap=146.0

Vehicle 1: Route=[0, 16, 23, 17, 25, 0], Distance=205.90, RemCap=450.0

Vehicle 2: Route=[0, 5, 29, 26, 9, 27, 28, 0], Distance=177.98, RemCap=376.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 181.66

Total customer waiting time = 11343.06

--------------------------------------------------

Ep 12/50 | Reward 3220.65 | Loss 181364572.27 | Dist 579.31 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 13, 12, 26, 21, 14, 15, 1, 3, 16, 2, 5, 24, 0], Distance=300.34, RemCap=85.0

Vehicle 1: Route=[0, 30, 4, 29, 28, 25, 0], Distance=166.12, RemCap=417.0

Vehicle 2: Route=[0, 23, 27, 0], Distance=112.85, RemCap=470.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 9063.12

--------------------------------------------------

Ep 13/50 | Reward 2864.42 | Loss 122705092.56 | Dist 600.87 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 16, 4, 3, 1, 14, 15, 12, 13, 23, 22, 18, 11, 10, 9, 25, 0], Distance=302.48, RemCap=105.0

Vehicle 1: Route=[0, 28, 24, 30, 0], Distance=103.66, RemCap=437.0

Vehicle 2: Route=[0, 27, 21, 29, 0], Distance=127.54, RemCap=460.0

Vehicle 3: Route=[0, 26, 0], Distance=67.19, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9426.34

--------------------------------------------------

Ep 14/50 | Reward 3116.49 | Loss 160663647.55 | Dist 663.39 | Vehl 4

Vehicle 0: Route=[0, 28, 18, 11, 10, 9, 27, 17, 8, 19, 20, 6, 5, 2, 16, 4, 3, 1, 15, 14, 21, 13, 26, 0], Distance=288.99, RemCap=124.0

Vehicle 1: Route=[0, 7, 29, 23, 0], Distance=117.19, RemCap=450.0

Vehicle 2: Route=[0, 25, 12, 24, 0], Distance=178.83, RemCap=420.0

Vehicle 3: Route=[0, 30, 22, 0], Distance=78.38, RemCap=478.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9267.50

--------------------------------------------------

Ep 15/50 | Reward 2881.64 | Loss 132706553.59 | Dist 677.39 | Vehl 4

Vehicle 0: Route=[0, 19, 22, 11, 10, 9, 17, 8, 20, 6, 7, 24, 5, 16, 4, 3, 1, 15, 14, 13, 12, 26, 0], Distance=300.68, RemCap=135.0

Vehicle 1: Route=[0, 30, 2, 29, 18, 28, 0], Distance=140.82, RemCap=387.0

Vehicle 2: Route=[0, 27, 21, 0], Distance=119.97, RemCap=480.0

Vehicle 3: Route=[0, 23, 25, 0], Distance=115.92, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9744.83

--------------------------------------------------

Ep 16/50 | Reward 3081.38 | Loss 154367048.01 | Dist 636.12 | Vehl 4

Vehicle 0: Route=[0, 28, 11, 10, 9, 25, 18, 17, 8, 19, 6, 7, 5, 2, 16, 4, 3, 1, 26, 12, 13, 15, 14, 30, 0], Distance=297.52, RemCap=84.0

Vehicle 1: Route=[0, 20, 23, 29, 21, 0], Distance=140.83, RemCap=431.0

Vehicle 2: Route=[0, 22, 0], Distance=48.59, RemCap=497.0

Vehicle 3: Route=[0, 24, 27, 0], Distance=149.18, RemCap=460.0

Total vehicle waiting time = 36.94

Total customer waiting time = 8888.13

--------------------------------------------------

Ep 17/50 | Reward 3241.21 | Loss 167162535.32 | Dist 521.07 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 27, 25, 9, 10, 13, 12, 26, 15, 14, 1, 3, 4, 16, 2, 5, 6, 7, 20, 8, 17, 19, 30, 0], Distance=308.94, RemCap=69.0

Vehicle 1: Route=[0, 22, 23, 21, 28, 0], Distance=105.12, RemCap=453.0

Vehicle 2: Route=[0], Distance=0.00, RemCap=500

Vehicle 3: Route=[0, 29, 24, 0], Distance=107.01, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8906.43

--------------------------------------------------

Ep 18/50 | Reward 3427.86 | Loss 185445149.34 | Dist 541.10 | Vehl 4

Vehicle 0: Route=[0, 23, 13, 12, 15, 14, 1, 3, 4, 16, 2, 5, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 25, 0], Distance=292.99, RemCap=95.0

Vehicle 1: Route=[0, 28, 30, 0], Distance=70.41, RemCap=467.0

Vehicle 2: Route=[0, 29, 26, 0], Distance=69.49, RemCap=450.0

Vehicle 3: Route=[0, 21, 24, 0], Distance=108.20, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6744.97

--------------------------------------------------

Ep 19/50 | Reward 3113.24 | Loss 159419529.63 | Dist 538.82 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 27, 25, 17, 8, 19, 20, 7, 5, 2, 4, 3, 1, 15, 14, 23, 13, 12, 21, 0], Distance=286.05, RemCap=118.0

Vehicle 1: Route=[0, 6, 16, 29, 26, 0], Distance=126.44, RemCap=420.0

Vehicle 2: Route=[0, 24, 30, 0], Distance=64.13, RemCap=451.0

Vehicle 3: Route=[0, 28, 22, 0], Distance=62.21, RemCap=483.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9689.25

--------------------------------------------------

Ep 20/50 | Reward 3157.88 | Loss 163564125.35 | Dist 559.74 | Vehl 4

Vehicle 0: Route=[0, 14, 21, 13, 12, 15, 1, 3, 4, 16, 2, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 0], Distance=291.64, RemCap=85.0

Vehicle 1: Route=[0, 29, 0], Distance=63.46, RemCap=480.0

Vehicle 2: Route=[0, 30, 25, 23, 26, 0], Distance=162.15, RemCap=421.0

Vehicle 3: Route=[0, 28, 0], Distance=42.49, RemCap=486.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9952.28

--------------------------------------------------

Ep 21/50 | Reward 3153.91 | Loss 154688001.31 | Dist 629.56 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 6, 7, 24, 5, 2, 4, 3, 1, 14, 12, 13, 23, 11, 10, 9, 25, 18, 28, 0], Distance=303.41, RemCap=84.0

Vehicle 1: Route=[0, 22, 16, 29, 0], Distance=139.53, RemCap=467.0

Vehicle 2: Route=[0, 15, 21, 26, 0], Distance=71.70, RemCap=450.0

Vehicle 3: Route=[0, 30, 27, 0], Distance=114.92, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9881.78

--------------------------------------------------

Ep 22/50 | Reward 3312.41 | Loss 201040057.01 | Dist 609.07 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 25, 17, 8, 19, 20, 7, 6, 5, 2, 4, 3, 1, 14, 15, 29, 12, 13, 21, 0], Distance=282.57, RemCap=108.0

Vehicle 1: Route=[0, 26, 28, 0], Distance=80.18, RemCap=456.0

Vehicle 2: Route=[0, 27, 23, 16, 24, 0], Distance=167.94, RemCap=430.0

Vehicle 3: Route=[0, 30, 22, 0], Distance=78.38, RemCap=478.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7495.74

--------------------------------------------------

Ep 23/50 | Reward 3365.20 | Loss 185340896.04 | Dist 601.68 | Vehl 4

Vehicle 0: Route=[0, 21, 13, 12, 26, 15, 14, 1, 3, 4, 16, 2, 5, 6, 20, 19, 8, 17, 18, 11, 10, 9, 25, 27, 0], Distance=291.42, RemCap=88.0

Vehicle 1: Route=[0, 7, 29, 28, 0], Distance=130.42, RemCap=456.0

Vehicle 2: Route=[0, 24, 23, 0], Distance=101.45, RemCap=450.0

Vehicle 3: Route=[0, 22, 30, 0], Distance=78.38, RemCap=478.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6695.47

--------------------------------------------------

Ep 24/50 | Reward 3148.76 | Loss 157533254.78 | Dist 636.00 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 6, 7, 24, 5, 2, 4, 3, 1, 29, 15, 14, 13, 9, 10, 11, 18, 22, 0], Distance=284.55, RemCap=135.0

Vehicle 1: Route=[0, 16, 12, 27, 0], Distance=160.96, RemCap=440.0

Vehicle 2: Route=[0, 23, 26, 21, 0], Distance=68.38, RemCap=440.0

Vehicle 3: Route=[0, 30, 28, 25, 0], Distance=122.11, RemCap=457.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9477.31

--------------------------------------------------

Ep 25/50 | Reward 3251.51 | Loss 172272788.42 | Dist 535.59 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 30, 2, 5, 4, 3, 1, 15, 12, 13, 23, 28, 18, 11, 10, 9, 25, 0], Distance=302.76, RemCap=95.0

Vehicle 1: Route=[0, 14, 29, 26, 21, 0], Distance=70.50, RemCap=430.0

Vehicle 2: Route=[0, 22, 27, 16, 24, 0], Distance=162.33, RemCap=447.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 9578.89

--------------------------------------------------

Ep 26/50 | Reward 3361.94 | Loss 186365443.98 | Dist 616.37 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 16, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 11, 10, 9, 13, 12, 29, 21, 0], Distance=295.92, RemCap=95.0

Vehicle 1: Route=[0, 14, 15, 23, 28, 0], Distance=74.87, RemCap=446.0

Vehicle 2: Route=[0, 26, 25, 0], Distance=130.66, RemCap=460.0

Vehicle 3: Route=[0, 30, 27, 0], Distance=114.92, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7135.87

--------------------------------------------------

Ep 27/50 | Reward 3271.82 | Loss 172600273.26 | Dist 584.90 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 17, 8, 19, 20, 6, 24, 5, 2, 16, 4, 3, 1, 15, 29, 26, 12, 13, 21, 0], Distance=280.97, RemCap=68.0

Vehicle 1: Route=[0, 30, 14, 22, 27, 25, 0], Distance=151.19, RemCap=448.0

Vehicle 2: Route=[0, 7, 28, 0], Distance=101.40, RemCap=476.0

Vehicle 3: Route=[0, 23, 0], Distance=51.34, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8322.41

--------------------------------------------------

Ep 28/50 | Reward 3287.29 | Loss 171260940.00 | Dist 686.41 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 17, 8, 19, 20, 7, 6, 5, 16, 4, 3, 1, 2, 23, 13, 15, 29, 26, 0], Distance=298.57, RemCap=118.0

Vehicle 1: Route=[0, 25, 21, 14, 30, 0], Distance=144.00, RemCap=451.0

Vehicle 2: Route=[0, 12, 28, 27, 0], Distance=131.16, RemCap=436.0

Vehicle 3: Route=[0, 24, 22, 0], Distance=112.69, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8084.06

--------------------------------------------------

Ep 29/50 | Reward 3062.44 | Loss 143482130.42 | Dist 678.51 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 4, 3, 1, 15, 29, 12, 13, 28, 18, 11, 10, 9, 25, 0], Distance=294.89, RemCap=114.0

Vehicle 1: Route=[0, 30, 16, 22, 21, 0], Distance=157.18, RemCap=458.0

Vehicle 2: Route=[0, 24, 14, 26, 0], Distance=113.58, RemCap=430.0

Vehicle 3: Route=[0, 23, 27, 0], Distance=112.85, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9498.21

--------------------------------------------------

Ep 30/50 | Reward 3313.62 | Loss 186921831.98 | Dist 599.81 | Vehl 4

Vehicle 0: Route=[0, 30, 14, 13, 12, 26, 29, 1, 3, 4, 2, 5, 6, 7, 20, 19, 8, 17, 18, 11, 10, 9, 25, 0], Distance=307.89, RemCap=79.0

Vehicle 1: Route=[0, 24, 16, 15, 23, 0], Distance=109.74, RemCap=430.0

Vehicle 2: Route=[0, 27, 21, 0], Distance=119.97, RemCap=480.0

Vehicle 3: Route=[0, 28, 22, 0], Distance=62.21, RemCap=483.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8224.31

--------------------------------------------------

Ep 31/50 | Reward 3117.92 | Loss 150238347.13 | Dist 703.03 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 17, 8, 19, 20, 6, 30, 24, 5, 2, 16, 4, 3, 1, 15, 12, 13, 21, 0], Distance=293.94, RemCap=99.0

Vehicle 1: Route=[0, 7, 14, 23, 27, 28, 0], Distance=178.79, RemCap=436.0

Vehicle 2: Route=[0, 26, 22, 0], Distance=99.76, RemCap=467.0

Vehicle 3: Route=[0, 25, 29, 0], Distance=130.53, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10036.09

--------------------------------------------------

Ep 32/50 | Reward 3364.38 | Loss 198506668.69 | Dist 560.36 | Vehl 4

Vehicle 0: Route=[0, 19, 6, 7, 20, 8, 17, 22, 18, 27, 9, 10, 11, 28, 13, 12, 15, 1, 3, 4, 16, 5, 2, 30, 0], Distance=291.17, RemCap=102.0

Vehicle 1: Route=[0, 23, 29, 21, 0], Distance=70.31, RemCap=450.0

Vehicle 2: Route=[0, 14, 26, 24, 0], Distance=113.08, RemCap=430.0

Vehicle 3: Route=[0, 25, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8782.66

--------------------------------------------------

Ep 33/50 | Reward 3373.36 | Loss 197502859.10 | Dist 585.28 | Vehl 4

Vehicle 0: Route=[0, 23, 13, 15, 1, 3, 4, 16, 5, 2, 30, 6, 7, 20, 19, 8, 17, 18, 11, 10, 9, 27, 25, 0], Distance=293.13, RemCap=129.0

Vehicle 1: Route=[0, 14, 29, 26, 0], Distance=69.88, RemCap=440.0

Vehicle 2: Route=[0, 12, 28, 0], Distance=82.09, RemCap=446.0

Vehicle 3: Route=[0, 24, 21, 22, 0], Distance=140.18, RemCap=457.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7797.05

--------------------------------------------------

Ep 34/50 | Reward 3406.60 | Loss 194763994.72 | Dist 517.71 | Vehl 4

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 27, 25, 17, 8, 19, 20, 6, 5, 2, 16, 4, 3, 1, 15, 26, 12, 13, 28, 0], Distance=287.82, RemCap=91.0

Vehicle 1: Route=[0, 14, 29, 7, 30, 0], Distance=119.57, RemCap=441.0

Vehicle 2: Route=[0], Distance=0.00, RemCap=500

Vehicle 3: Route=[0, 24, 23, 21, 0], Distance=110.32, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7451.82

--------------------------------------------------

Ep 35/50 | Reward 3452.28 | Loss 201356365.59 | Dist 546.77 | Vehl 4

Vehicle 0: Route=[0, 21, 13, 12, 26, 29, 15, 1, 3, 4, 16, 2, 5, 6, 7, 20, 19, 8, 17, 9, 10, 11, 18, 22, 0], Distance=281.43, RemCap=85.0

Vehicle 1: Route=[0, 24, 14, 27, 25, 0], Distance=170.95, RemCap=440.0

Vehicle 2: Route=[0, 30, 0], Distance=29.81, RemCap=481.0

Vehicle 3: Route=[0, 28, 23, 0], Distance=64.58, RemCap=466.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6784.05

--------------------------------------------------

Ep 36/50 | Reward 3335.40 | Loss 192469717.28 | Dist 587.46 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 16, 5, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 13, 12, 26, 29, 15, 21, 0], Distance=294.34, RemCap=85.0

Vehicle 1: Route=[0, 24, 27, 25, 0], Distance=154.00, RemCap=450.0

Vehicle 2: Route=[0, 14, 30, 0], Distance=74.54, RemCap=471.0

Vehicle 3: Route=[0, 28, 23, 0], Distance=64.58, RemCap=466.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8084.12

--------------------------------------------------

Ep 37/50 | Reward 3137.43 | Loss 159682096.81 | Dist 581.26 | Vehl 4

Vehicle 0: Route=[0, 21, 13, 12, 26, 14, 1, 3, 4, 16, 5, 2, 30, 6, 20, 19, 8, 17, 9, 10, 11, 18, 22, 0], Distance=284.90, RemCap=96.0

Vehicle 1: Route=[0, 24, 7, 27, 25, 0], Distance=168.10, RemCap=440.0

Vehicle 2: Route=[0, 28, 23, 0], Distance=64.58, RemCap=466.0

Vehicle 3: Route=[0, 15, 29, 0], Distance=63.68, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10133.17

--------------------------------------------------

Ep 38/50 | Reward 3327.78 | Loss 181602087.32 | Dist 713.92 | Vehl 4

Vehicle 0: Route=[0, 6, 20, 19, 8, 17, 22, 18, 11, 9, 10, 23, 13, 12, 29, 15, 14, 1, 3, 4, 2, 5, 24, 0], Distance=303.85, RemCap=85.0

Vehicle 1: Route=[0, 16, 28, 27, 0], Distance=145.50, RemCap=466.0

Vehicle 2: Route=[0, 7, 25, 21, 0], Distance=178.57, RemCap=470.0

Vehicle 3: Route=[0, 26, 30, 0], Distance=86.00, RemCap=451.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7240.02

--------------------------------------------------

Ep 39/50 | Reward 3210.27 | Loss 168617552.15 | Dist 670.08 | Vehl 4

Vehicle 0: Route=[0, 22, 18, 11, 10, 9, 17, 8, 19, 20, 6, 24, 5, 2, 16, 4, 3, 1, 15, 26, 12, 13, 21, 0], Distance=279.84, RemCap=85.0

Vehicle 1: Route=[0, 30, 14, 25, 0], Distance=141.69, RemCap=461.0

Vehicle 2: Route=[0, 7, 27, 23, 0], Distance=169.21, RemCap=460.0

Vehicle 3: Route=[0, 28, 29, 0], Distance=79.33, RemCap=466.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8140.33

--------------------------------------------------

Ep 40/50 | Reward 3558.67 | Loss 222502585.05 | Dist 511.36 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 16, 5, 24, 7, 6, 20, 19, 8, 17, 22, 18, 27, 9, 10, 11, 13, 12, 15, 14, 21, 0], Distance=297.77, RemCap=85.0

Vehicle 1: Route=[0, 25, 28, 23, 26, 0], Distance=132.69, RemCap=426.0

Vehicle 2: Route=[0, 29, 30, 0], Distance=80.90, RemCap=461.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 5822.07

--------------------------------------------------

Ep 41/50 | Reward 3234.77 | Loss 171834017.25 | Dist 602.29 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 20, 19, 8, 17, 9, 10, 11, 18, 28, 23, 13, 15, 1, 3, 4, 16, 2, 5, 24, 30, 0], Distance=298.22, RemCap=105.0

Vehicle 1: Route=[0, 14, 29, 27, 25, 0], Distance=132.53, RemCap=450.0

Vehicle 2: Route=[0, 12, 21, 0], Distance=71.78, RemCap=450.0

Vehicle 3: Route=[0, 22, 26, 0], Distance=99.76, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8679.04

--------------------------------------------------

Ep 42/50 | Reward 3133.05 | Loss 152028214.14 | Dist 617.70 | Vehl 4

Vehicle 0: Route=[0, 23, 13, 12, 21, 14, 1, 3, 4, 2, 5, 6, 7, 20, 19, 8, 17, 18, 11, 10, 9, 27, 25, 0], Distance=290.64, RemCap=108.0

Vehicle 1: Route=[0, 28, 16, 15, 29, 0], Distance=128.38, RemCap=446.0

Vehicle 2: Route=[0, 22, 24, 0], Distance=112.69, RemCap=467.0

Vehicle 3: Route=[0, 26, 30, 0], Distance=86.00, RemCap=451.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10134.92

--------------------------------------------------

Ep 43/50 | Reward 3268.64 | Loss 179818317.67 | Dist 624.93 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 4, 3, 1, 15, 14, 13, 23, 28, 18, 11, 10, 9, 27, 25, 0], Distance=296.97, RemCap=134.0

Vehicle 1: Route=[0, 16, 29, 12, 22, 0], Distance=135.02, RemCap=427.0

Vehicle 2: Route=[0, 24, 26, 0], Distance=112.83, RemCap=440.0

Vehicle 3: Route=[0, 30, 21, 0], Distance=80.11, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8689.85

--------------------------------------------------

Ep 44/50 | Reward 3268.20 | Loss 164612696.70 | Dist 577.69 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 7, 6, 5, 2, 4, 3, 1, 15, 26, 12, 13, 28, 18, 11, 10, 9, 27, 25, 0], Distance=294.92, RemCap=94.0

Vehicle 1: Route=[0, 24, 16, 14, 21, 0], Distance=111.99, RemCap=440.0

Vehicle 2: Route=[0, 23, 30, 0], Distance=72.26, RemCap=461.0

Vehicle 3: Route=[0, 29, 22, 0], Distance=98.52, RemCap=477.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8360.08

--------------------------------------------------

Ep 45/50 | Reward 3262.38 | Loss 166820567.07 | Dist 540.65 | Vehl 4

Vehicle 0: Route=[0, 14, 21, 13, 26, 15, 1, 3, 4, 2, 5, 6, 7, 20, 19, 8, 17, 22, 18, 11, 10, 9, 27, 25, 0], Distance=292.24, RemCap=125.0

Vehicle 1: Route=[0, 16, 23, 12, 29, 0], Distance=113.88, RemCap=410.0

Vehicle 2: Route=[0, 24, 0], Distance=64.12, RemCap=470.0

Vehicle 3: Route=[0, 30, 28, 0], Distance=70.41, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9159.16

--------------------------------------------------

Ep 46/50 | Reward 3337.93 | Loss 184548176.19 | Dist 658.57 | Vehl 4

Vehicle 0: Route=[0, 19, 17, 8, 20, 6, 5, 2, 4, 3, 1, 14, 15, 12, 13, 10, 9, 27, 11, 18, 22, 28, 0], Distance=295.43, RemCap=131.0

Vehicle 1: Route=[0, 21, 24, 0], Distance=108.20, RemCap=460.0

Vehicle 2: Route=[0, 7, 16, 23, 26, 29, 0], Distance=139.33, RemCap=410.0

Vehicle 3: Route=[0, 25, 30, 0], Distance=115.60, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8207.48

--------------------------------------------------

Ep 47/50 | Reward 3445.37 | Loss 194992558.95 | Dist 555.53 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 27, 25, 17, 8, 19, 20, 7, 6, 5, 2, 16, 4, 3, 1, 14, 15, 12, 13, 21, 0], Distance=282.34, RemCap=108.0

Vehicle 1: Route=[0, 28, 26, 23, 0], Distance=80.76, RemCap=436.0

Vehicle 2: Route=[0, 30, 22, 29, 0], Distance=128.31, RemCap=458.0

Vehicle 3: Route=[0, 24, 0], Distance=64.12, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 6776.04

--------------------------------------------------

Ep 48/50 | Reward 3190.53 | Loss 162610920.01 | Dist 627.89 | Vehl 4

Vehicle 0: Route=[0, 28, 10, 9, 11, 18, 22, 17, 8, 19, 20, 7, 6, 30, 2, 5, 4, 3, 1, 15, 12, 13, 21, 0], Distance=297.65, RemCap=112.0

Vehicle 1: Route=[0, 25, 27, 26, 0], Distance=132.04, RemCap=450.0

Vehicle 2: Route=[0, 16, 14, 23, 0], Distance=91.19, RemCap=460.0

Vehicle 3: Route=[0, 24, 29, 0], Distance=107.01, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9927.75

--------------------------------------------------

Ep 49/50 | Reward 3160.24 | Loss 158604172.12 | Dist 599.85 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 25, 17, 8, 19, 20, 7, 6, 5, 2, 16, 4, 3, 1, 15, 26, 13, 21, 0], Distance=277.14, RemCap=138.0

Vehicle 1: Route=[0, 29, 22, 28, 0], Distance=112.14, RemCap=463.0

Vehicle 2: Route=[0, 27, 23, 12, 14, 24, 0], Distance=180.77, RemCap=390.0

Vehicle 3: Route=[0, 30, 0], Distance=29.81, RemCap=481.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9850.19

--------------------------------------------------

Ep 50/50 | Reward 3132.86 | Loss 155958301.51 | Dist 638.05 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 10, 9, 27, 17, 8, 19, 20, 6, 30, 2, 5, 4, 3, 1, 15, 14, 23, 13, 12, 21, 0], Distance=290.50, RemCap=99.0

Vehicle 1: Route=[0, 7, 24, 26, 25, 0], Distance=192.89, RemCap=420.0

Vehicle 2: Route=[0, 16, 29, 0], Distance=92.45, RemCap=470.0

Vehicle 3: Route=[0, 28, 22, 0], Distance=62.21, RemCap=483.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9609.86

--------------------------------------------------

Saved results to F:/KLTN/code/output30\h30d10\_results.docx

=== Processing h30d15.csv ===

--- Training with max\_vehicles = 2 ---

Ep 1/50 | Reward 3027.02 | Loss 160087312.02 | Dist 494.48 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 19, 5, 2, 29, 4, 3, 1, 24, 21, 12, 13, 15, 14, 18, 10, 9, 28, 11, 8, 17, 23, 0], Distance=305.35, RemCap=33.0

Vehicle 1: Route=[0, 25, 26, 30, 20, 22, 16, 0], Distance=189.14, RemCap=398.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9506.18

--------------------------------------------------

Ep 2/50 | Reward 2938.98 | Loss 138997899.31 | Dist 515.89 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 19, 5, 4, 3, 1, 29, 2, 25, 14, 15, 12, 13, 17, 8, 30, 9, 10, 11, 22, 28, 0], Distance=327.43, RemCap=63.0

Vehicle 1: Route=[0, 26, 24, 21, 16, 18, 23, 20, 0], Distance=188.46, RemCap=368.0

Total vehicle waiting time = 89.54

Total customer waiting time = 10768.62

--------------------------------------------------

Ep 3/50 | Reward 3293.72 | Loss 194130441.06 | Dist 461.45 | Vehl 2

Vehicle 0: Route=[0, 25, 2, 5, 29, 4, 3, 1, 14, 15, 21, 12, 13, 16, 18, 10, 9, 28, 11, 17, 8, 26, 6, 7, 27, 19, 0], Distance=304.97, RemCap=10.0

Vehicle 1: Route=[0, 30, 20, 22, 23, 24, 0], Distance=156.48, RemCap=421.0

Total vehicle waiting time = 66.73

Total customer waiting time = 7880.22

--------------------------------------------------

Ep 4/50 | Reward 3234.41 | Loss 170680999.64 | Dist 419.55 | Vehl 2

Vehicle 0: Route=[0, 23, 17, 11, 10, 9, 28, 22, 20, 30, 8, 6, 7, 27, 19, 5, 2, 29, 4, 3, 1, 14, 15, 24, 12, 13, 16, 0], Distance=290.50, RemCap=28.0

Vehicle 1: Route=[0, 26, 25, 18, 21, 0], Distance=129.05, RemCap=403.0

Total vehicle waiting time = 91.27

Total customer waiting time = 8811.98

--------------------------------------------------

Ep 5/50 | Reward 3182.76 | Loss 177620730.63 | Dist 511.49 | Vehl 2

Vehicle 0: Route=[0, 17, 11, 10, 9, 28, 8, 27, 7, 6, 25, 19, 5, 29, 4, 3, 1, 2, 14, 15, 13, 12, 21, 24, 0], Distance=299.69, RemCap=48.0

Vehicle 1: Route=[0, 18, 16, 23, 26, 30, 22, 20, 0], Distance=211.80, RemCap=383.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8432.86

--------------------------------------------------

Ep 6/50 | Reward 2962.44 | Loss 139084599.19 | Dist 497.67 | Vehl 2

Vehicle 0: Route=[0, 2, 5, 29, 4, 3, 1, 24, 21, 12, 15, 14, 18, 23, 10, 9, 28, 11, 8, 26, 6, 7, 27, 0], Distance=280.19, RemCap=48.0

Vehicle 1: Route=[0, 30, 20, 22, 17, 13, 16, 25, 19, 0], Distance=217.47, RemCap=383.0

Total vehicle waiting time = 181.66

Total customer waiting time = 12256.71

--------------------------------------------------

Ep 7/50 | Reward 3094.62 | Loss 151927584.62 | Dist 501.89 | Vehl 2

Vehicle 0: Route=[0, 17, 11, 10, 9, 20, 30, 8, 6, 7, 27, 19, 5, 2, 4, 3, 1, 14, 15, 24, 12, 13, 16, 18, 23, 0], Distance=288.24, RemCap=68.0

Vehicle 1: Route=[0, 28, 22, 26, 25, 29, 21, 0], Distance=213.66, RemCap=363.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8729.76

--------------------------------------------------

Ep 8/50 | Reward 3322.43 | Loss 190554146.15 | Dist 452.89 | Vehl 2

Vehicle 0: Route=[0, 17, 11, 10, 9, 28, 22, 30, 8, 26, 6, 7, 19, 5, 2, 29, 4, 3, 1, 24, 15, 14, 16, 13, 12, 21, 0], Distance=277.37, RemCap=4.0

Vehicle 1: Route=[0, 27, 25, 18, 23, 20, 0], Distance=175.51, RemCap=427.0

Total vehicle waiting time = 79.66

Total customer waiting time = 7933.13

--------------------------------------------------

Ep 9/50 | Reward 3074.86 | Loss 153326934.58 | Dist 466.52 | Vehl 2

Vehicle 0: Route=[0, 25, 14, 13, 12, 21, 15, 1, 3, 4, 29, 2, 5, 19, 7, 6, 26, 8, 30, 20, 9, 10, 11, 22, 28, 0], Distance=297.11, RemCap=8.0

Vehicle 1: Route=[0, 27, 24, 16, 18, 17, 23, 0], Distance=169.41, RemCap=423.0

Total vehicle waiting time = 122.83

Total customer waiting time = 9170.58

--------------------------------------------------

Ep 10/50 | Reward 3104.58 | Loss 161387673.59 | Dist 532.00 | Vehl 2

Vehicle 0: Route=[0, 18, 16, 13, 12, 21, 15, 14, 1, 3, 4, 2, 5, 19, 25, 6, 7, 8, 17, 11, 10, 9, 28, 20, 0], Distance=294.78, RemCap=78.0

Vehicle 1: Route=[0, 26, 27, 29, 24, 23, 22, 30, 0], Distance=237.21, RemCap=353.0

Total vehicle waiting time = 181.66

Total customer waiting time = 9559.53

--------------------------------------------------

Ep 11/50 | Reward 3083.37 | Loss 148840860.18 | Dist 516.11 | Vehl 2

Vehicle 0: Route=[0, 26, 6, 7, 19, 5, 2, 4, 3, 1, 24, 15, 14, 16, 12, 13, 11, 10, 9, 28, 22, 30, 8, 23, 0], Distance=314.74, RemCap=63.0

Vehicle 1: Route=[0, 25, 27, 29, 21, 18, 20, 17, 0], Distance=201.37, RemCap=368.0

Total vehicle waiting time = 159.84

Total customer waiting time = 11088.33

--------------------------------------------------

Ep 12/50 | Reward 2754.37 | Loss 128687249.93 | Dist 469.37 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 7, 6, 26, 8, 30, 9, 10, 11, 17, 23, 13, 12, 21, 24, 15, 14, 16, 0], Distance=291.25, RemCap=10.0

Vehicle 1: Route=[0, 27, 25, 18, 22, 28, 20, 0], Distance=178.12, RemCap=421.0

Total vehicle waiting time = 181.66

Total customer waiting time = 12602.60

--------------------------------------------------

Ep 13/50 | Reward 3052.05 | Loss 169934915.05 | Dist 500.40 | Vehl 2

Vehicle 0: Route=[0, 11, 10, 9, 22, 20, 30, 8, 7, 6, 25, 19, 5, 2, 29, 4, 3, 1, 15, 14, 18, 13, 12, 16, 0], Distance=292.90, RemCap=46.0

Vehicle 1: Route=[0, 26, 27, 24, 21, 23, 28, 17, 0], Distance=207.50, RemCap=385.0

Total vehicle waiting time = 181.66

Total customer waiting time = 10436.62

--------------------------------------------------

Ep 14/50 | Reward 3256.48 | Loss 195477086.32 | Dist 516.01 | Vehl 2

Vehicle 0: Route=[0, 25, 2, 18, 16, 13, 12, 21, 24, 15, 14, 1, 3, 4, 5, 19, 7, 6, 8, 11, 10, 9, 28, 22, 20, 0], Distance=304.64, RemCap=51.0

Vehicle 1: Route=[0, 23, 29, 27, 26, 30, 17, 0], Distance=211.37, RemCap=380.0

Total vehicle waiting time = 143.51

Total customer waiting time = 8485.45

--------------------------------------------------

Ep 15/50 | Reward 3205.07 | Loss 177515238.31 | Dist 491.66 | Vehl 2

Vehicle 0: Route=[0, 25, 2, 5, 29, 4, 3, 1, 24, 15, 14, 16, 12, 13, 18, 23, 10, 9, 28, 11, 8, 26, 6, 7, 27, 0], Distance=285.11, RemCap=39.0

Vehicle 1: Route=[0, 19, 21, 22, 20, 30, 17, 0], Distance=206.56, RemCap=392.0

Total vehicle waiting time = 120.90

Total customer waiting time = 9232.34

--------------------------------------------------

Ep 16/50 | Reward 3150.06 | Loss 169776535.40 | Dist 472.01 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 16, 14, 15, 24, 1, 3, 4, 2, 5, 19, 27, 7, 6, 26, 8, 17, 11, 10, 9, 28, 22, 20, 0], Distance=293.83, RemCap=65.0

Vehicle 1: Route=[0, 30, 18, 21, 29, 25, 0], Distance=178.18, RemCap=366.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8477.99

--------------------------------------------------

Ep 17/50 | Reward 3465.36 | Loss 222654087.49 | Dist 438.96 | Vehl 2

Vehicle 0: Route=[0, 11, 10, 9, 28, 22, 8, 26, 27, 7, 6, 25, 19, 5, 2, 29, 4, 3, 1, 14, 15, 24, 21, 12, 13, 16, 0], Distance=288.59, RemCap=3.0

Vehicle 1: Route=[0, 18, 23, 17, 30, 20, 0], Distance=150.37, RemCap=428.0

Total vehicle waiting time = 28.03

Total customer waiting time = 7086.66

--------------------------------------------------

Ep 18/50 | Reward 3162.81 | Loss 164717003.37 | Dist 505.60 | Vehl 2

Vehicle 0: Route=[0, 8, 20, 22, 9, 10, 11, 17, 23, 18, 13, 12, 21, 24, 15, 14, 1, 3, 4, 2, 5, 19, 6, 7, 27, 0], Distance=283.12, RemCap=63.0

Vehicle 1: Route=[0, 28, 30, 26, 25, 29, 16, 0], Distance=222.47, RemCap=368.0

Total vehicle waiting time = 162.55

Total customer waiting time = 10261.44

--------------------------------------------------

Ep 19/50 | Reward 3183.69 | Loss 178113353.33 | Dist 435.29 | Vehl 2

Vehicle 0: Route=[0, 13, 12, 15, 14, 1, 3, 4, 29, 5, 2, 25, 19, 27, 7, 6, 26, 8, 30, 20, 9, 10, 11, 17, 0], Distance=295.83, RemCap=45.0

Vehicle 1: Route=[0, 24, 21, 16, 18, 28, 22, 23, 0], Distance=139.45, RemCap=386.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9319.58

--------------------------------------------------

Ep 20/50 | Reward 3380.99 | Loss 192908830.27 | Dist 481.72 | Vehl 2

Vehicle 0: Route=[0, 14, 15, 24, 16, 12, 13, 23, 10, 9, 20, 22, 11, 17, 8, 26, 25, 2, 29, 1, 3, 4, 5, 19, 6, 7, 27, 0], Distance=323.62, RemCap=16.0

Vehicle 1: Route=[0, 30, 28, 18, 21, 0], Distance=158.10, RemCap=415.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8372.97

--------------------------------------------------

Ep 21/50 | Reward 3826.08 | Loss 275667167.20 | Dist 480.94 | Vehl 2

Vehicle 0: Route=[0, 18, 13, 12, 21, 24, 15, 14, 25, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 8, 17, 11, 10, 9, 28, 22, 20, 0], Distance=307.36, RemCap=8.0

Vehicle 1: Route=[0, 26, 30, 16, 23, 0], Distance=173.57, RemCap=423.0

Total vehicle waiting time = 33.35

Total customer waiting time = 6368.95

--------------------------------------------------

Ep 22/50 | Reward 3290.61 | Loss 197444896.25 | Dist 490.30 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 8, 30, 22, 28, 9, 10, 11, 13, 12, 21, 24, 15, 14, 23, 17, 0], Distance=311.72, RemCap=18.0

Vehicle 1: Route=[0, 25, 26, 20, 18, 16, 0], Distance=178.58, RemCap=413.0

Total vehicle waiting time = 75.74

Total customer waiting time = 8900.58

--------------------------------------------------

Ep 23/50 | Reward 3254.12 | Loss 177630733.09 | Dist 506.42 | Vehl 2

Vehicle 0: Route=[0, 23, 18, 14, 13, 12, 21, 24, 15, 1, 3, 4, 2, 5, 27, 7, 6, 26, 8, 30, 17, 11, 10, 9, 28, 20, 0], Distance=311.92, RemCap=40.0

Vehicle 1: Route=[0, 25, 19, 29, 22, 16, 0], Distance=194.50, RemCap=391.0

Total vehicle waiting time = 97.09

Total customer waiting time = 9634.33

--------------------------------------------------

Ep 24/50 | Reward 3314.31 | Loss 182767767.57 | Dist 514.15 | Vehl 2

Vehicle 0: Route=[0, 8, 30, 28, 9, 10, 11, 18, 13, 12, 21, 16, 15, 14, 25, 2, 1, 3, 4, 5, 19, 6, 7, 27, 0], Distance=301.97, RemCap=56.0

Vehicle 1: Route=[0, 26, 29, 24, 23, 17, 22, 20, 0], Distance=212.18, RemCap=375.0

Total vehicle waiting time = 34.97

Total customer waiting time = 8485.35

--------------------------------------------------

Ep 25/50 | Reward 3501.66 | Loss 205573405.42 | Dist 504.90 | Vehl 2

Vehicle 0: Route=[0, 23, 18, 13, 12, 16, 14, 15, 24, 1, 3, 4, 29, 2, 5, 7, 6, 26, 8, 30, 17, 11, 10, 9, 22, 20, 0], Distance=307.30, RemCap=30.0

Vehicle 1: Route=[0, 28, 21, 19, 27, 25, 0], Distance=197.60, RemCap=401.0

Total vehicle waiting time = 34.97

Total customer waiting time = 8240.17

--------------------------------------------------

Ep 26/50 | Reward 3156.53 | Loss 164748978.39 | Dist 464.65 | Vehl 2

Vehicle 0: Route=[0, 2, 5, 4, 3, 1, 14, 15, 12, 13, 16, 18, 23, 17, 11, 10, 9, 22, 20, 30, 8, 26, 6, 7, 27, 0], Distance=288.83, RemCap=80.0

Vehicle 1: Route=[0, 28, 21, 24, 29, 19, 25, 0], Distance=175.83, RemCap=351.0

Total vehicle waiting time = 118.44

Total customer waiting time = 10353.50

--------------------------------------------------

Ep 27/50 | Reward 3247.47 | Loss 163944668.03 | Dist 488.36 | Vehl 2

Vehicle 0: Route=[0, 25, 2, 1, 3, 4, 5, 19, 7, 6, 26, 8, 30, 9, 10, 11, 17, 23, 18, 14, 15, 21, 12, 13, 16, 0], Distance=292.54, RemCap=31.0

Vehicle 1: Route=[0, 27, 29, 24, 22, 28, 20, 0], Distance=195.82, RemCap=400.0

Total vehicle waiting time = 25.82

Total customer waiting time = 9405.83

--------------------------------------------------

Ep 28/50 | Reward 3317.29 | Loss 178200361.20 | Dist 436.30 | Vehl 2

Vehicle 0: Route=[0, 17, 11, 10, 9, 28, 30, 8, 26, 6, 7, 27, 19, 5, 2, 4, 3, 1, 18, 14, 15, 24, 21, 12, 13, 16, 0], Distance=284.73, RemCap=24.0

Vehicle 1: Route=[0, 20, 22, 23, 29, 25, 0], Distance=151.58, RemCap=407.0

Total vehicle waiting time = 36.87

Total customer waiting time = 9059.22

--------------------------------------------------

Ep 29/50 | Reward 3307.86 | Loss 177829450.85 | Dist 494.33 | Vehl 2

Vehicle 0: Route=[0, 18, 14, 15, 16, 21, 12, 13, 23, 17, 11, 10, 9, 30, 8, 26, 25, 2, 1, 3, 4, 29, 5, 6, 7, 27, 0], Distance=317.44, RemCap=11.0

Vehicle 1: Route=[0, 19, 24, 22, 28, 20, 0], Distance=176.90, RemCap=420.0

Total vehicle waiting time = 35.84

Total customer waiting time = 9494.37

--------------------------------------------------

Ep 30/50 | Reward 3231.23 | Loss 158475246.56 | Dist 449.03 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 24, 15, 14, 1, 3, 4, 5, 2, 25, 6, 7, 27, 26, 8, 30, 11, 10, 9, 28, 22, 20, 0], Distance=301.22, RemCap=64.0

Vehicle 1: Route=[0, 19, 29, 21, 16, 18, 17, 0], Distance=147.81, RemCap=367.0

Total vehicle waiting time = 93.35

Total customer waiting time = 10197.91

--------------------------------------------------

Ep 31/50 | Reward 3613.26 | Loss 229330842.29 | Dist 497.75 | Vehl 2

Vehicle 0: Route=[0, 25, 8, 26, 6, 7, 27, 19, 5, 2, 4, 3, 1, 14, 15, 24, 12, 13, 23, 10, 9, 20, 28, 22, 11, 17, 0], Distance=312.34, RemCap=56.0

Vehicle 1: Route=[0, 30, 29, 21, 16, 18, 0], Distance=185.41, RemCap=375.0

Total vehicle waiting time = 93.35

Total customer waiting time = 7230.61

--------------------------------------------------

Ep 32/50 | Reward 3691.56 | Loss 234762082.17 | Dist 473.19 | Vehl 2

Vehicle 0: Route=[0, 17, 18, 13, 12, 24, 15, 14, 1, 3, 4, 5, 2, 25, 6, 7, 27, 26, 8, 30, 11, 10, 9, 28, 22, 20, 0], Distance=323.86, RemCap=55.0

Vehicle 1: Route=[0, 19, 29, 23, 16, 21, 0], Distance=149.33, RemCap=376.0

Total vehicle waiting time = 95.99

Total customer waiting time = 7082.75

--------------------------------------------------

Ep 33/50 | Reward 3364.69 | Loss 179112624.98 | Dist 448.61 | Vehl 2

Vehicle 0: Route=[0, 16, 13, 12, 24, 15, 14, 1, 3, 4, 29, 2, 5, 19, 27, 7, 6, 26, 8, 30, 17, 11, 10, 9, 22, 20, 0], Distance=298.41, RemCap=24.0

Vehicle 1: Route=[0, 28, 23, 18, 21, 25, 0], Distance=150.21, RemCap=407.0

Total vehicle waiting time = 93.35

Total customer waiting time = 8650.19

--------------------------------------------------

Ep 34/50 | Reward 3388.47 | Loss 177887689.06 | Dist 528.25 | Vehl 2

Vehicle 0: Route=[0, 23, 11, 10, 9, 28, 22, 8, 7, 6, 25, 19, 5, 2, 29, 4, 3, 1, 15, 14, 13, 12, 21, 24, 0], Distance=292.66, RemCap=37.0

Vehicle 1: Route=[0, 26, 27, 16, 18, 17, 30, 20, 0], Distance=235.59, RemCap=394.0

Total vehicle waiting time = 93.35

Total customer waiting time = 7811.11

--------------------------------------------------

Ep 35/50 | Reward 3454.76 | Loss 196129291.33 | Dist 455.22 | Vehl 2

Vehicle 0: Route=[0, 23, 11, 10, 9, 28, 22, 30, 8, 26, 27, 7, 6, 25, 19, 5, 2, 4, 3, 1, 14, 15, 21, 12, 13, 16, 0], Distance=296.73, RemCap=24.0

Vehicle 1: Route=[0, 29, 24, 18, 20, 17, 0], Distance=158.49, RemCap=407.0

Total vehicle waiting time = 35.84

Total customer waiting time = 8008.58

--------------------------------------------------

Ep 36/50 | Reward 3423.65 | Loss 186696197.44 | Dist 520.43 | Vehl 2

Vehicle 0: Route=[0, 25, 6, 7, 19, 5, 2, 4, 3, 1, 14, 15, 21, 12, 13, 18, 23, 17, 8, 30, 9, 10, 11, 22, 20, 0], Distance=310.75, RemCap=49.0

Vehicle 1: Route=[0, 26, 27, 29, 24, 16, 28, 0], Distance=209.68, RemCap=382.0

Total vehicle waiting time = 34.97

Total customer waiting time = 7589.48

--------------------------------------------------

Ep 37/50 | Reward 3252.46 | Loss 161949110.69 | Dist 523.96 | Vehl 2

Vehicle 0: Route=[0, 23, 18, 16, 13, 12, 24, 15, 14, 1, 3, 4, 2, 5, 19, 7, 6, 26, 8, 17, 11, 10, 9, 20, 22, 0], Distance=296.13, RemCap=65.0

Vehicle 1: Route=[0, 30, 28, 21, 29, 25, 27, 0], Distance=227.83, RemCap=366.0

Total vehicle waiting time = 95.99

Total customer waiting time = 9970.83

--------------------------------------------------

Ep 38/50 | Reward 3341.29 | Loss 178505531.91 | Dist 519.86 | Vehl 2

Vehicle 0: Route=[0, 25, 6, 7, 26, 8, 30, 20, 22, 9, 10, 11, 17, 23, 13, 12, 15, 14, 1, 3, 4, 2, 5, 19, 0], Distance=298.83, RemCap=71.0

Vehicle 1: Route=[0, 27, 29, 24, 21, 16, 28, 18, 0], Distance=221.03, RemCap=360.0

Total vehicle waiting time = 34.97

Total customer waiting time = 8497.88

--------------------------------------------------

Ep 39/50 | Reward 3402.51 | Loss 190773404.27 | Dist 504.57 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 19, 5, 2, 4, 3, 1, 14, 15, 24, 12, 13, 18, 11, 10, 9, 20, 30, 8, 17, 23, 0], Distance=302.62, RemCap=78.0

Vehicle 1: Route=[0, 25, 29, 21, 16, 28, 22, 26, 0], Distance=201.95, RemCap=353.0

Total vehicle waiting time = 35.84

Total customer waiting time = 8625.95

--------------------------------------------------

Ep 40/50 | Reward 3225.93 | Loss 156776239.33 | Dist 413.72 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 26, 8, 30, 20, 22, 28, 9, 10, 11, 13, 12, 15, 14, 16, 0], Distance=280.92, RemCap=37.0

Vehicle 1: Route=[0, 25, 17, 23, 18, 21, 24, 0], Distance=132.80, RemCap=394.0

Total vehicle waiting time = 95.99

Total customer waiting time = 10496.29

--------------------------------------------------

Ep 41/50 | Reward 3260.72 | Loss 159485496.50 | Dist 524.62 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 24, 15, 14, 1, 3, 4, 2, 5, 19, 25, 6, 7, 27, 26, 8, 17, 11, 10, 9, 28, 20, 0], Distance=309.89, RemCap=66.0

Vehicle 1: Route=[0, 30, 22, 29, 18, 21, 16, 0], Distance=214.73, RemCap=365.0

Total vehicle waiting time = 36.57

Total customer waiting time = 8932.34

--------------------------------------------------

Ep 42/50 | Reward 3388.29 | Loss 186111756.51 | Dist 500.87 | Vehl 2

Vehicle 0: Route=[0, 25, 6, 7, 27, 19, 5, 29, 4, 3, 1, 2, 15, 14, 16, 21, 12, 13, 23, 8, 30, 9, 10, 11, 22, 20, 0], Distance=318.15, RemCap=12.0

Vehicle 1: Route=[0, 26, 24, 18, 28, 17, 0], Distance=182.71, RemCap=419.0

Total vehicle waiting time = 95.99

Total customer waiting time = 9272.99

--------------------------------------------------

Ep 43/50 | Reward 2966.78 | Loss 146485961.02 | Dist 486.00 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 27, 7, 6, 26, 8, 22, 28, 9, 10, 11, 18, 14, 15, 21, 12, 13, 16, 0], Distance=277.32, RemCap=52.0

Vehicle 1: Route=[0, 25, 19, 24, 23, 17, 30, 20, 0], Distance=208.68, RemCap=379.0

Total vehicle waiting time = 181.66

Total customer waiting time = 10949.23

--------------------------------------------------

Ep 44/50 | Reward 3422.79 | Loss 184829864.79 | Dist 504.61 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 15, 14, 1, 3, 4, 29, 5, 2, 25, 6, 7, 27, 26, 8, 17, 11, 10, 9, 28, 22, 20, 0], Distance=297.38, RemCap=66.0

Vehicle 1: Route=[0, 30, 19, 24, 21, 18, 16, 0], Distance=207.23, RemCap=365.0

Total vehicle waiting time = 95.99

Total customer waiting time = 9370.67

--------------------------------------------------

Ep 45/50 | Reward 3168.33 | Loss 150716819.53 | Dist 515.85 | Vehl 2

Vehicle 0: Route=[0, 25, 6, 7, 27, 5, 2, 29, 4, 3, 1, 24, 15, 14, 16, 12, 13, 23, 8, 11, 10, 9, 28, 22, 20, 0], Distance=302.59, RemCap=67.0

Vehicle 1: Route=[0, 21, 18, 17, 30, 26, 19, 0], Distance=213.26, RemCap=364.0

Total vehicle waiting time = 159.84

Total customer waiting time = 10148.58

--------------------------------------------------

Ep 46/50 | Reward 3329.07 | Loss 170798246.49 | Dist 491.03 | Vehl 2

Vehicle 0: Route=[0, 23, 10, 9, 28, 11, 17, 8, 26, 6, 7, 27, 19, 5, 2, 4, 3, 1, 14, 15, 21, 12, 13, 16, 0], Distance=282.21, RemCap=75.0

Vehicle 1: Route=[0, 22, 20, 30, 25, 29, 24, 18, 0], Distance=208.82, RemCap=356.0

Total vehicle waiting time = 95.99

Total customer waiting time = 9527.00

--------------------------------------------------

Ep 47/50 | Reward 3363.50 | Loss 172317518.70 | Dist 464.03 | Vehl 2

Vehicle 0: Route=[0, 25, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 26, 8, 17, 11, 9, 10, 18, 14, 15, 21, 12, 13, 16, 0], Distance=288.97, RemCap=20.0

Vehicle 1: Route=[0, 24, 23, 30, 22, 28, 20, 0], Distance=175.06, RemCap=411.0

Total vehicle waiting time = 95.99

Total customer waiting time = 9488.97

--------------------------------------------------

Ep 48/50 | Reward 3371.65 | Loss 174967074.27 | Dist 461.02 | Vehl 2

Vehicle 0: Route=[0, 23, 13, 12, 21, 15, 14, 1, 3, 4, 2, 5, 19, 25, 6, 7, 27, 26, 8, 30, 11, 10, 9, 28, 22, 20, 0], Distance=310.99, RemCap=24.0

Vehicle 1: Route=[0, 17, 29, 24, 18, 16, 0], Distance=150.03, RemCap=407.0

Total vehicle waiting time = 17.28

Total customer waiting time = 8388.49

--------------------------------------------------

Ep 49/50 | Reward 3414.09 | Loss 187927848.45 | Dist 520.71 | Vehl 2

Vehicle 0: Route=[0, 8, 26, 27, 7, 6, 25, 5, 29, 4, 3, 1, 2, 15, 14, 16, 12, 13, 23, 11, 10, 9, 28, 20, 0], Distance=296.29, RemCap=69.0

Vehicle 1: Route=[0, 17, 22, 30, 19, 24, 21, 18, 0], Distance=224.41, RemCap=362.0

Total vehicle waiting time = 93.35

Total customer waiting time = 7974.43

--------------------------------------------------

Ep 50/50 | Reward 3445.63 | Loss 191921907.63 | Dist 515.10 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 27, 7, 6, 8, 17, 11, 22, 9, 10, 18, 14, 15, 24, 21, 12, 13, 16, 0], Distance=287.12, RemCap=67.0

Vehicle 1: Route=[0, 25, 19, 26, 23, 30, 20, 28, 0], Distance=227.97, RemCap=364.0

Total vehicle waiting time = 35.84

Total customer waiting time = 8255.49

--------------------------------------------------

--- Training with max\_vehicles = 3 ---

Ep 1/50 | Reward 3137.17 | Loss 163019155.68 | Dist 595.41 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 19, 27, 7, 6, 26, 8, 20, 22, 9, 10, 11, 23, 13, 12, 14, 15, 24, 0], Distance=280.43, RemCap=88.0

Vehicle 1: Route=[0, 30, 25, 29, 18, 21, 0], Distance=193.27, RemCap=366.0

Vehicle 2: Route=[0, 16, 28, 17, 0], Distance=121.71, RemCap=477.0

Total vehicle waiting time = 118.44

Total customer waiting time = 8971.97

--------------------------------------------------

Ep 2/50 | Reward 3156.96 | Loss 167906418.36 | Dist 630.57 | Vehl 3

Vehicle 0: Route=[0, 25, 18, 13, 12, 16, 14, 15, 1, 3, 4, 29, 2, 5, 27, 7, 6, 8, 17, 11, 10, 9, 30, 0], Distance=321.66, RemCap=83.0

Vehicle 1: Route=[0, 23, 28, 22, 0], Distance=92.95, RemCap=466.0

Vehicle 2: Route=[0, 20, 26, 19, 24, 21, 0], Distance=215.96, RemCap=382.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7983.02

--------------------------------------------------

Ep 3/50 | Reward 3360.16 | Loss 206539186.26 | Dist 645.14 | Vehl 3

Vehicle 0: Route=[0, 8, 11, 22, 9, 10, 23, 18, 16, 13, 12, 24, 15, 14, 25, 2, 1, 3, 4, 5, 19, 6, 7, 27, 0], Distance=301.73, RemCap=77.0

Vehicle 1: Route=[0, 26, 21, 17, 20, 28, 0], Distance=195.87, RemCap=419.0

Vehicle 2: Route=[0, 30, 29, 0], Distance=147.54, RemCap=435.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7068.55

--------------------------------------------------

Ep 4/50 | Reward 3143.57 | Loss 173777487.74 | Dist 599.75 | Vehl 3

Vehicle 0: Route=[0, 23, 11, 10, 9, 22, 20, 8, 26, 7, 6, 25, 2, 5, 29, 4, 3, 1, 15, 14, 18, 16, 13, 12, 24, 0], Distance=288.26, RemCap=39.0

Vehicle 1: Route=[0, 17, 21, 19, 0], Distance=145.41, RemCap=437.0

Vehicle 2: Route=[0, 27, 30, 28, 0], Distance=166.08, RemCap=455.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8050.44

--------------------------------------------------

Ep 5/50 | Reward 2997.62 | Loss 152143046.59 | Dist 628.09 | Vehl 3

Vehicle 0: Route=[0, 13, 12, 24, 15, 14, 1, 3, 4, 29, 2, 5, 19, 25, 6, 7, 26, 8, 28, 9, 10, 11, 17, 0], Distance=285.14, RemCap=60.0

Vehicle 1: Route=[0, 18, 16, 23, 22, 0], Distance=121.72, RemCap=446.0

Vehicle 2: Route=[0, 21, 27, 30, 20, 0], Distance=221.23, RemCap=425.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8598.47

--------------------------------------------------

Ep 6/50 | Reward 2894.65 | Loss 124621027.79 | Dist 655.69 | Vehl 3

Vehicle 0: Route=[0, 13, 12, 15, 14, 1, 3, 4, 29, 5, 2, 25, 6, 7, 26, 8, 22, 28, 9, 10, 11, 23, 0], Distance=275.96, RemCap=89.0

Vehicle 1: Route=[0, 30, 19, 16, 21, 24, 0], Distance=202.97, RemCap=385.0

Vehicle 2: Route=[0, 27, 17, 20, 18, 0], Distance=176.76, RemCap=457.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10237.66

--------------------------------------------------

Ep 7/50 | Reward 2750.00 | Loss 106265258.00 | Dist 632.48 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 27, 7, 6, 8, 30, 9, 10, 11, 17, 23, 13, 12, 15, 14, 16, 0], Distance=289.89, RemCap=108.0

Vehicle 1: Route=[0, 26, 22, 28, 21, 18, 0], Distance=168.50, RemCap=402.0

Vehicle 2: Route=[0, 20, 24, 19, 25, 0], Distance=174.09, RemCap=421.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9672.03

--------------------------------------------------

Ep 8/50 | Reward 3198.03 | Loss 161362983.66 | Dist 575.17 | Vehl 3

Vehicle 0: Route=[0, 18, 13, 12, 21, 24, 15, 14, 1, 3, 4, 29, 2, 5, 19, 25, 6, 7, 26, 8, 11, 10, 9, 28, 20, 0], Distance=291.98, RemCap=3.0

Vehicle 1: Route=[0, 27, 17, 22, 0], Distance=146.46, RemCap=477.0

Vehicle 2: Route=[0, 30, 23, 16, 0], Distance=136.72, RemCap=451.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7566.95

--------------------------------------------------

Ep 9/50 | Reward 3227.76 | Loss 173873752.61 | Dist 523.50 | Vehl 3

Vehicle 0: Route=[0, 6, 7, 25, 2, 5, 29, 4, 3, 1, 15, 21, 12, 13, 14, 18, 23, 17, 11, 10, 9, 28, 30, 8, 26, 0], Distance=298.44, RemCap=21.0

Vehicle 1: Route=[0, 27, 19, 16, 24, 0], Distance=135.12, RemCap=430.0

Vehicle 2: Route=[0, 22, 20, 0], Distance=89.95, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7603.07

--------------------------------------------------

Ep 10/50 | Reward 2945.24 | Loss 142977050.08 | Dist 645.99 | Vehl 3

Vehicle 0: Route=[0, 6, 7, 5, 2, 4, 3, 1, 14, 15, 24, 21, 12, 13, 18, 23, 11, 10, 9, 22, 20, 8, 26, 0], Distance=275.25, RemCap=78.0

Vehicle 1: Route=[0, 28, 17, 27, 25, 29, 0], Distance=186.08, RemCap=418.0

Vehicle 2: Route=[0, 19, 16, 30, 0], Distance=184.66, RemCap=435.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8094.76

--------------------------------------------------

Ep 11/50 | Reward 3287.77 | Loss 175398623.65 | Dist 545.18 | Vehl 3

Vehicle 0: Route=[0, 8, 26, 6, 7, 5, 2, 4, 3, 1, 15, 14, 16, 21, 12, 13, 23, 11, 10, 9, 22, 20, 30, 0], Distance=302.66, RemCap=83.0

Vehicle 1: Route=[0, 18, 24, 29, 25, 27, 19, 0], Distance=155.28, RemCap=361.0

Vehicle 2: Route=[0, 28, 17, 0], Distance=87.24, RemCap=487.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7934.00

--------------------------------------------------

Ep 12/50 | Reward 3113.57 | Loss 147294575.55 | Dist 606.20 | Vehl 3

Vehicle 0: Route=[0, 8, 17, 20, 22, 9, 10, 11, 13, 12, 16, 14, 15, 1, 3, 4, 29, 2, 5, 6, 7, 19, 0], Distance=289.48, RemCap=107.0

Vehicle 1: Route=[0, 23, 18, 25, 26, 27, 0], Distance=154.56, RemCap=409.0

Vehicle 2: Route=[0, 30, 28, 24, 21, 0], Distance=162.15, RemCap=415.0

Total vehicle waiting time = 91.27

Total customer waiting time = 8777.37

--------------------------------------------------

Ep 13/50 | Reward 2866.56 | Loss 113947559.02 | Dist 656.82 | Vehl 3

Vehicle 0: Route=[0, 8, 6, 7, 5, 2, 29, 4, 3, 1, 24, 15, 14, 16, 12, 13, 23, 11, 10, 9, 20, 30, 0], Distance=300.63, RemCap=91.0

Vehicle 1: Route=[0, 22, 18, 21, 25, 27, 26, 0], Distance=204.91, RemCap=383.0

Vehicle 2: Route=[0, 19, 28, 17, 0], Distance=151.28, RemCap=457.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8999.70

--------------------------------------------------

Ep 14/50 | Reward 2983.76 | Loss 142944701.19 | Dist 557.66 | Vehl 3

Vehicle 0: Route=[0, 23, 18, 13, 12, 24, 15, 14, 1, 3, 4, 2, 5, 27, 7, 6, 26, 8, 20, 9, 10, 11, 22, 0], Distance=288.29, RemCap=98.0

Vehicle 1: Route=[0, 28, 16, 21, 29, 19, 25, 0], Distance=176.28, RemCap=361.0

Vehicle 2: Route=[0, 17, 30, 0], Distance=93.08, RemCap=472.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9298.61

--------------------------------------------------

Ep 15/50 | Reward 3039.15 | Loss 138786701.36 | Dist 597.46 | Vehl 3

Vehicle 0: Route=[0, 23, 11, 10, 9, 22, 20, 8, 6, 7, 5, 2, 4, 3, 1, 24, 21, 12, 13, 15, 14, 18, 0], Distance=273.08, RemCap=106.0

Vehicle 1: Route=[0, 25, 19, 27, 26, 30, 0], Distance=160.33, RemCap=388.0

Vehicle 2: Route=[0, 29, 16, 17, 28, 0], Distance=164.06, RemCap=437.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8462.92

--------------------------------------------------

Ep 16/50 | Reward 3141.93 | Loss 156845795.70 | Dist 511.94 | Vehl 3

Vehicle 0: Route=[0, 13, 12, 16, 14, 15, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 26, 8, 17, 11, 10, 9, 22, 20, 30, 0], Distance=312.22, RemCap=44.0

Vehicle 1: Route=[0, 25, 23, 21, 24, 18, 0], Distance=113.05, RemCap=397.0

Vehicle 2: Route=[0, 28, 0], Distance=86.67, RemCap=490.0

Total vehicle waiting time = 21.55

Total customer waiting time = 8314.63

--------------------------------------------------

Ep 17/50 | Reward 2780.06 | Loss 103045908.65 | Dist 571.46 | Vehl 3

Vehicle 0: Route=[0, 6, 7, 27, 26, 8, 20, 28, 9, 10, 11, 23, 13, 12, 24, 15, 14, 1, 3, 4, 5, 2, 29, 0], Distance=279.65, RemCap=78.0

Vehicle 1: Route=[0, 25, 21, 17, 22, 30, 0], Distance=183.49, RemCap=413.0

Vehicle 2: Route=[0, 19, 16, 18, 0], Distance=108.32, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9770.32

--------------------------------------------------

Ep 18/50 | Reward 3164.36 | Loss 165166338.44 | Dist 598.38 | Vehl 3

Vehicle 0: Route=[0, 13, 12, 16, 14, 15, 1, 3, 4, 2, 5, 19, 25, 6, 7, 27, 26, 8, 30, 17, 11, 10, 9, 22, 0], Distance=309.64, RemCap=75.0

Vehicle 1: Route=[0, 28, 23, 24, 29, 0], Distance=157.50, RemCap=416.0

Vehicle 2: Route=[0, 20, 21, 18, 0], Distance=131.24, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7267.22

--------------------------------------------------

Ep 19/50 | Reward 2852.26 | Loss 116726009.29 | Dist 653.79 | Vehl 3

Vehicle 0: Route=[0, 6, 7, 5, 2, 29, 4, 3, 1, 14, 15, 21, 12, 13, 18, 23, 10, 9, 22, 11, 17, 8, 30, 0], Distance=298.11, RemCap=68.0

Vehicle 1: Route=[0, 25, 27, 26, 20, 24, 16, 0], Distance=204.98, RemCap=403.0

Vehicle 2: Route=[0, 19, 28, 0], Distance=150.71, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9668.67

--------------------------------------------------

Ep 20/50 | Reward 3120.02 | Loss 149305884.27 | Dist 561.76 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 27, 7, 6, 26, 8, 20, 28, 9, 10, 11, 17, 23, 18, 13, 12, 21, 14, 15, 24, 0], Distance=292.91, RemCap=25.0

Vehicle 1: Route=[0, 25, 19, 30, 0], Distance=148.88, RemCap=426.0

Vehicle 2: Route=[0, 22, 16, 0], Distance=119.97, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7633.15

--------------------------------------------------

Ep 21/50 | Reward 3137.13 | Loss 151529317.65 | Dist 518.72 | Vehl 3

Vehicle 0: Route=[0, 17, 28, 9, 10, 11, 23, 18, 13, 12, 24, 15, 14, 1, 3, 4, 2, 5, 19, 27, 7, 6, 26, 8, 30, 0], Distance=310.89, RemCap=50.0

Vehicle 1: Route=[0, 25, 16, 21, 29, 0], Distance=117.87, RemCap=401.0

Vehicle 2: Route=[0, 20, 22, 0], Distance=89.95, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8176.98

--------------------------------------------------

Ep 22/50 | Reward 3189.43 | Loss 159641947.16 | Dist 552.90 | Vehl 3

Vehicle 0: Route=[0, 17, 22, 28, 9, 10, 11, 23, 18, 13, 12, 24, 15, 14, 1, 3, 4, 2, 5, 19, 25, 6, 7, 27, 26, 8, 30, 0], Distance=328.82, RemCap=21.0

Vehicle 1: Route=[0, 20, 21, 0], Distance=130.66, RemCap=460.0

Vehicle 2: Route=[0, 16, 29, 0], Distance=93.43, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7471.36

--------------------------------------------------

Ep 23/50 | Reward 2897.21 | Loss 122155101.36 | Dist 596.63 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 7, 6, 26, 8, 20, 28, 9, 10, 11, 17, 23, 13, 12, 14, 15, 24, 0], Distance=284.63, RemCap=125.0

Vehicle 1: Route=[0, 25, 27, 30, 22, 18, 0], Distance=196.77, RemCap=416.0

Vehicle 2: Route=[0, 19, 29, 21, 16, 0], Distance=115.23, RemCap=390.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9734.79

--------------------------------------------------

Ep 24/50 | Reward 2852.53 | Loss 112346144.24 | Dist 568.19 | Vehl 3

Vehicle 0: Route=[0, 25, 6, 7, 19, 5, 2, 4, 3, 1, 24, 21, 12, 13, 15, 14, 10, 9, 22, 11, 17, 8, 30, 0], Distance=307.87, RemCap=73.0

Vehicle 1: Route=[0, 26, 20, 28, 23, 18, 16, 0], Distance=165.54, RemCap=408.0

Vehicle 2: Route=[0, 27, 29, 0], Distance=94.78, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9939.33

--------------------------------------------------

Ep 25/50 | Reward 2807.13 | Loss 114282770.22 | Dist 618.67 | Vehl 3

Vehicle 0: Route=[0, 6, 7, 27, 8, 30, 9, 10, 11, 17, 13, 12, 21, 15, 14, 1, 3, 4, 5, 19, 2, 29, 0], Distance=307.86, RemCap=72.0

Vehicle 1: Route=[0, 20, 28, 23, 16, 18, 0], Distance=127.47, RemCap=436.0

Vehicle 2: Route=[0, 25, 26, 22, 24, 0], Distance=183.34, RemCap=423.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10110.04

--------------------------------------------------

Ep 26/50 | Reward 2967.58 | Loss 121402765.67 | Dist 658.68 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 27, 7, 6, 26, 8, 17, 23, 16, 14, 15, 24, 21, 12, 13, 11, 10, 9, 30, 0], Distance=339.94, RemCap=70.0

Vehicle 1: Route=[0, 22, 28, 18, 25, 29, 0], Distance=168.83, RemCap=401.0

Vehicle 2: Route=[0, 20, 19, 0], Distance=149.91, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8270.13

--------------------------------------------------

Ep 27/50 | Reward 2982.84 | Loss 125971892.40 | Dist 541.99 | Vehl 3

Vehicle 0: Route=[0, 23, 17, 11, 10, 9, 28, 20, 30, 8, 6, 7, 27, 19, 5, 2, 29, 4, 3, 1, 15, 14, 18, 13, 12, 16, 0], Distance=293.50, RemCap=38.0

Vehicle 1: Route=[0, 26, 25, 24, 0], Distance=121.27, RemCap=433.0

Vehicle 2: Route=[0, 21, 22, 0], Distance=127.22, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8187.09

--------------------------------------------------

Ep 28/50 | Reward 2975.84 | Loss 131767641.82 | Dist 570.35 | Vehl 3

Vehicle 0: Route=[0, 14, 15, 21, 12, 13, 23, 17, 11, 10, 9, 22, 20, 30, 8, 7, 6, 25, 19, 5, 2, 1, 3, 4, 29, 0], Distance=306.27, RemCap=29.0

Vehicle 1: Route=[0, 28, 16, 27, 26, 0], Distance=197.98, RemCap=442.0

Vehicle 2: Route=[0, 18, 24, 0], Distance=66.10, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9269.59

--------------------------------------------------

Ep 29/50 | Reward 2789.68 | Loss 104984767.89 | Dist 567.58 | Vehl 3

Vehicle 0: Route=[0, 23, 17, 11, 10, 9, 20, 30, 8, 6, 7, 27, 5, 2, 29, 4, 3, 1, 14, 15, 21, 12, 13, 16, 0], Distance=285.15, RemCap=68.0

Vehicle 1: Route=[0, 26, 25, 18, 28, 22, 0], Distance=175.42, RemCap=413.0

Vehicle 2: Route=[0, 19, 24, 0], Distance=107.01, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10176.91

--------------------------------------------------

Ep 30/50 | Reward 3045.40 | Loss 127742789.94 | Dist 460.92 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 26, 8, 30, 28, 9, 10, 11, 17, 23, 18, 14, 15, 12, 13, 16, 0], Distance=293.99, RemCap=20.0

Vehicle 1: Route=[0, 24, 21, 20, 22, 0], Distance=137.12, RemCap=430.0

Vehicle 2: Route=[0, 25, 0], Distance=29.81, RemCap=481.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8222.97

--------------------------------------------------

Ep 31/50 | Reward 2773.66 | Loss 103990402.12 | Dist 589.13 | Vehl 3

Vehicle 0: Route=[0, 25, 6, 7, 27, 19, 5, 2, 4, 3, 1, 14, 15, 12, 13, 17, 11, 10, 9, 22, 20, 8, 30, 0], Distance=306.68, RemCap=103.0

Vehicle 1: Route=[0, 29, 26, 28, 23, 16, 0], Distance=212.38, RemCap=398.0

Vehicle 2: Route=[0, 18, 21, 24, 0], Distance=70.07, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10623.96

--------------------------------------------------

Ep 32/50 | Reward 2808.62 | Loss 109975790.92 | Dist 617.40 | Vehl 3

Vehicle 0: Route=[0, 11, 9, 10, 18, 16, 13, 12, 21, 15, 14, 1, 3, 4, 2, 5, 27, 7, 6, 26, 8, 30, 0], Distance=305.14, RemCap=87.0

Vehicle 1: Route=[0, 17, 28, 24, 19, 29, 0], Distance=185.99, RemCap=397.0

Vehicle 2: Route=[0, 25, 23, 20, 22, 0], Distance=126.26, RemCap=447.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10582.99

--------------------------------------------------

Ep 33/50 | Reward 2951.53 | Loss 120841716.47 | Dist 622.46 | Vehl 3

Vehicle 0: Route=[0, 23, 13, 12, 15, 14, 1, 3, 4, 29, 2, 5, 19, 7, 6, 26, 8, 17, 11, 10, 9, 20, 30, 0], Distance=309.12, RemCap=60.0

Vehicle 1: Route=[0, 25, 27, 28, 21, 24, 16, 0], Distance=200.49, RemCap=401.0

Vehicle 2: Route=[0, 18, 22, 0], Distance=112.85, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8738.94

--------------------------------------------------

Ep 34/50 | Reward 2997.68 | Loss 132293682.23 | Dist 582.06 | Vehl 3

Vehicle 0: Route=[0, 14, 15, 16, 21, 12, 13, 23, 11, 10, 9, 28, 20, 8, 26, 6, 7, 5, 2, 1, 3, 4, 29, 0], Distance=277.15, RemCap=68.0

Vehicle 1: Route=[0, 17, 19, 27, 0], Distance=132.02, RemCap=457.0

Vehicle 2: Route=[0, 25, 24, 18, 22, 30, 0], Distance=172.89, RemCap=406.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9234.53

--------------------------------------------------

Ep 35/50 | Reward 3044.50 | Loss 135599709.75 | Dist 594.85 | Vehl 3

Vehicle 0: Route=[0, 23, 16, 13, 12, 24, 15, 14, 1, 3, 4, 5, 2, 25, 6, 7, 26, 8, 17, 11, 10, 9, 20, 28, 22, 0], Distance=301.43, RemCap=86.0

Vehicle 1: Route=[0, 18, 19, 27, 30, 0], Distance=196.18, RemCap=415.0

Vehicle 2: Route=[0, 21, 29, 0], Distance=97.23, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8432.34

--------------------------------------------------

Ep 36/50 | Reward 2896.20 | Loss 117527633.37 | Dist 596.14 | Vehl 3

Vehicle 0: Route=[0, 25, 19, 7, 6, 26, 8, 20, 28, 9, 10, 11, 23, 13, 12, 21, 15, 14, 1, 3, 4, 5, 2, 29, 0], Distance=296.58, RemCap=29.0

Vehicle 1: Route=[0, 27, 18, 22, 30, 0], Distance=199.91, RemCap=435.0

Vehicle 2: Route=[0, 17, 16, 24, 0], Distance=99.65, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9537.95

--------------------------------------------------

Ep 37/50 | Reward 2749.21 | Loss 96140476.81 | Dist 628.55 | Vehl 3

Vehicle 0: Route=[0, 18, 14, 13, 12, 21, 15, 1, 3, 4, 2, 5, 27, 7, 6, 26, 8, 17, 11, 10, 9, 22, 0], Distance=277.51, RemCap=109.0

Vehicle 1: Route=[0, 19, 24, 16, 23, 28, 30, 0], Distance=201.67, RemCap=391.0

Vehicle 2: Route=[0, 20, 25, 29, 0], Distance=149.37, RemCap=431.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10088.13

--------------------------------------------------

Ep 38/50 | Reward 2678.00 | Loss 97182281.39 | Dist 572.67 | Vehl 3

Vehicle 0: Route=[0, 13, 21, 15, 14, 2, 1, 3, 4, 29, 5, 19, 25, 6, 7, 27, 8, 20, 11, 10, 9, 28, 22, 0], Distance=299.05, RemCap=91.0

Vehicle 1: Route=[0, 24, 12, 17, 30, 0], Distance=150.52, RemCap=412.0

Vehicle 2: Route=[0, 26, 23, 16, 18, 0], Distance=123.09, RemCap=428.0

Total vehicle waiting time = 0.00

Total customer waiting time = 12030.52

--------------------------------------------------

Ep 39/50 | Reward 2798.32 | Loss 101785557.32 | Dist 653.62 | Vehl 3

Vehicle 0: Route=[0, 18, 13, 21, 15, 14, 2, 1, 3, 4, 29, 5, 27, 7, 6, 26, 8, 11, 10, 9, 22, 0], Distance=275.24, RemCap=112.0

Vehicle 1: Route=[0, 19, 17, 20, 12, 24, 0], Distance=199.80, RemCap=397.0

Vehicle 2: Route=[0, 25, 30, 28, 23, 16, 0], Distance=178.59, RemCap=422.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9518.30

--------------------------------------------------

Ep 40/50 | Reward 2996.07 | Loss 128982816.08 | Dist 585.90 | Vehl 3

Vehicle 0: Route=[0, 25, 2, 1, 3, 4, 5, 19, 27, 7, 6, 26, 8, 22, 28, 9, 10, 11, 23, 13, 12, 15, 14, 16, 0], Distance=282.13, RemCap=79.0

Vehicle 1: Route=[0, 24, 18, 17, 30, 0], Distance=143.06, RemCap=432.0

Vehicle 2: Route=[0, 20, 21, 29, 0], Distance=160.70, RemCap=420.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8097.43

--------------------------------------------------

Ep 41/50 | Reward 2895.98 | Loss 126864067.63 | Dist 679.82 | Vehl 3

Vehicle 0: Route=[0, 23, 11, 10, 9, 22, 8, 27, 6, 25, 19, 5, 2, 4, 3, 1, 15, 14, 13, 12, 21, 0], Distance=294.38, RemCap=107.0

Vehicle 1: Route=[0, 7, 29, 16, 17, 20, 30, 0], Distance=217.05, RemCap=402.0

Vehicle 2: Route=[0, 24, 18, 28, 26, 0], Distance=168.39, RemCap=422.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9323.58

--------------------------------------------------

Ep 42/50 | Reward 2767.85 | Loss 102585740.97 | Dist 659.57 | Vehl 3

Vehicle 0: Route=[0, 11, 10, 9, 20, 30, 8, 6, 7, 27, 5, 29, 4, 3, 1, 2, 15, 14, 18, 13, 24, 0], Distance=284.62, RemCap=125.0

Vehicle 1: Route=[0, 25, 28, 23, 12, 21, 0], Distance=164.19, RemCap=387.0

Vehicle 2: Route=[0, 26, 19, 16, 17, 22, 0], Distance=210.77, RemCap=419.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10396.81

--------------------------------------------------

Ep 43/50 | Reward 2795.74 | Loss 107566831.52 | Dist 598.38 | Vehl 3

Vehicle 0: Route=[0, 17, 11, 10, 9, 28, 22, 8, 26, 6, 7, 19, 5, 2, 4, 3, 1, 15, 14, 13, 18, 0], Distance=263.53, RemCap=149.0

Vehicle 1: Route=[0, 25, 29, 24, 12, 20, 30, 0], Distance=190.20, RemCap=346.0

Vehicle 2: Route=[0, 27, 23, 21, 16, 0], Distance=144.65, RemCap=436.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9896.70

--------------------------------------------------

Ep 44/50 | Reward 2828.30 | Loss 104637909.05 | Dist 607.04 | Vehl 3

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 7, 6, 26, 8, 30, 20, 22, 9, 10, 11, 23, 13, 12, 16, 14, 15, 24, 0], Distance=279.96, RemCap=93.0

Vehicle 1: Route=[0, 17, 18, 21, 27, 19, 0], Distance=176.86, RemCap=407.0

Vehicle 2: Route=[0, 28, 25, 29, 0], Distance=150.23, RemCap=431.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9566.21

--------------------------------------------------

Ep 45/50 | Reward 2948.62 | Loss 119246385.08 | Dist 582.77 | Vehl 3

Vehicle 0: Route=[0, 18, 13, 12, 21, 24, 15, 14, 25, 2, 1, 3, 4, 5, 19, 27, 7, 6, 26, 8, 20, 9, 10, 11, 22, 0], Distance=301.05, RemCap=33.0

Vehicle 1: Route=[0, 17, 28, 23, 29, 0], Distance=145.16, RemCap=433.0

Vehicle 2: Route=[0, 16, 30, 0], Distance=136.55, RemCap=465.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8789.25

--------------------------------------------------

Ep 46/50 | Reward 2792.17 | Loss 111167644.72 | Dist 602.49 | Vehl 3

Vehicle 0: Route=[0, 25, 6, 7, 27, 8, 28, 9, 10, 11, 23, 13, 12, 21, 15, 14, 1, 3, 4, 5, 2, 29, 0], Distance=282.12, RemCap=87.0

Vehicle 1: Route=[0, 26, 17, 18, 24, 16, 0], Distance=143.11, RemCap=419.0

Vehicle 2: Route=[0, 19, 22, 20, 30, 0], Distance=177.26, RemCap=425.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10264.27

--------------------------------------------------

Ep 47/50 | Reward 3062.73 | Loss 145451590.27 | Dist 581.42 | Vehl 3

Vehicle 0: Route=[0, 18, 13, 12, 21, 24, 15, 14, 1, 3, 4, 2, 5, 19, 7, 6, 8, 17, 11, 10, 9, 20, 30, 0], Distance=300.99, RemCap=72.0

Vehicle 1: Route=[0, 22, 28, 16, 29, 0], Distance=154.53, RemCap=430.0

Vehicle 2: Route=[0, 25, 27, 26, 23, 0], Distance=125.90, RemCap=429.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9211.21

--------------------------------------------------

Ep 48/50 | Reward 2719.72 | Loss 95467843.21 | Dist 642.98 | Vehl 3

Vehicle 0: Route=[0, 23, 18, 13, 12, 15, 1, 3, 4, 2, 5, 19, 7, 6, 26, 8, 30, 17, 11, 10, 9, 22, 0], Distance=299.26, RemCap=90.0

Vehicle 1: Route=[0, 25, 28, 16, 21, 14, 24, 0], Distance=166.83, RemCap=401.0

Vehicle 2: Route=[0, 20, 27, 29, 0], Distance=176.89, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10981.36

--------------------------------------------------

Ep 49/50 | Reward 3127.20 | Loss 139719317.71 | Dist 562.24 | Vehl 3

Vehicle 0: Route=[0, 14, 15, 16, 13, 12, 21, 24, 1, 3, 4, 29, 5, 2, 25, 6, 7, 27, 8, 17, 11, 10, 9, 30, 0], Distance=310.80, RemCap=53.0

Vehicle 1: Route=[0, 26, 23, 20, 28, 22, 0], Distance=149.99, RemCap=428.0

Vehicle 2: Route=[0, 19, 18, 0], Distance=101.45, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7539.72

--------------------------------------------------

Ep 50/50 | Reward 2771.69 | Loss 103364051.62 | Dist 576.84 | Vehl 3

Vehicle 0: Route=[0, 17, 11, 10, 9, 28, 22, 8, 26, 6, 7, 19, 5, 2, 14, 13, 12, 21, 15, 1, 3, 4, 29, 0], Distance=293.00, RemCap=59.0

Vehicle 1: Route=[0, 27, 18, 23, 20, 30, 0], Distance=198.74, RemCap=421.0

Vehicle 2: Route=[0, 16, 24, 25, 0], Distance=85.10, RemCap=451.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10533.56

--------------------------------------------------

--- Training with max\_vehicles = 4 ---

Ep 1/50 | Reward 3011.61 | Loss 145442058.81 | Dist 673.29 | Vehl 4

Vehicle 0: Route=[0, 23, 11, 10, 9, 20, 17, 8, 26, 6, 7, 19, 5, 2, 4, 3, 1, 15, 14, 13, 12, 24, 0], Distance=285.49, RemCap=105.0

Vehicle 1: Route=[0, 16, 29, 27, 30, 0], Distance=203.51, RemCap=415.0

Vehicle 2: Route=[0, 25, 28, 22, 0], Distance=116.52, RemCap=461.0

Vehicle 3: Route=[0, 21, 18, 0], Distance=67.76, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8434.99

--------------------------------------------------

Ep 2/50 | Reward 3026.35 | Loss 148073632.90 | Dist 706.29 | Vehl 4

Vehicle 0: Route=[0, 11, 10, 9, 22, 8, 7, 6, 25, 5, 29, 4, 3, 1, 2, 14, 15, 24, 21, 12, 13, 16, 18, 0], Distance=280.61, RemCap=61.0

Vehicle 1: Route=[0, 17, 19, 26, 0], Distance=146.20, RemCap=439.0

Vehicle 2: Route=[0, 23, 30, 28, 0], Distance=133.49, RemCap=451.0

Vehicle 3: Route=[0, 27, 20, 0], Distance=145.98, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7408.99

--------------------------------------------------

Ep 3/50 | Reward 3153.28 | Loss 159376825.45 | Dist 723.39 | Vehl 4

Vehicle 0: Route=[0, 25, 6, 8, 28, 9, 10, 11, 13, 12, 18, 14, 15, 1, 3, 4, 29, 2, 5, 19, 0], Distance=282.48, RemCap=101.0

Vehicle 1: Route=[0, 24, 22, 30, 7, 27, 0], Distance=207.36, RemCap=425.0

Vehicle 2: Route=[0, 26, 17, 23, 0], Distance=102.54, RemCap=455.0

Vehicle 3: Route=[0, 21, 16, 20, 0], Distance=131.00, RemCap=450.0

Total vehicle waiting time = 181.66

Total customer waiting time = 9011.82

--------------------------------------------------

Ep 4/50 | Reward 2936.50 | Loss 135196777.81 | Dist 735.19 | Vehl 4

Vehicle 0: Route=[0, 18, 13, 12, 15, 14, 1, 3, 4, 29, 2, 5, 19, 25, 6, 27, 8, 11, 10, 9, 20, 0], Distance=292.56, RemCap=91.0

Vehicle 1: Route=[0, 7, 24, 23, 30, 17, 0], Distance=200.23, RemCap=428.0

Vehicle 2: Route=[0, 26, 16, 22, 28, 0], Distance=175.22, RemCap=442.0

Vehicle 3: Route=[0, 21, 0], Distance=67.19, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8452.37

--------------------------------------------------

Ep 5/50 | Reward 2977.59 | Loss 140039818.81 | Dist 667.43 | Vehl 4

Vehicle 0: Route=[0, 26, 8, 22, 9, 10, 11, 14, 15, 13, 12, 21, 24, 2, 1, 3, 4, 29, 5, 19, 6, 7, 27, 0], Distance=293.17, RemCap=42.0

Vehicle 1: Route=[0, 18, 17, 30, 0], Distance=128.30, RemCap=452.0

Vehicle 2: Route=[0, 25, 28, 23, 0], Distance=122.68, RemCap=457.0

Vehicle 3: Route=[0, 20, 16, 0], Distance=123.29, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8711.20

--------------------------------------------------

Ep 6/50 | Reward 2925.35 | Loss 129098631.82 | Dist 590.43 | Vehl 4

Vehicle 0: Route=[0, 8, 20, 22, 9, 10, 11, 23, 18, 13, 12, 16, 14, 15, 1, 3, 4, 29, 2, 5, 6, 7, 27, 0], Distance=269.45, RemCap=96.0

Vehicle 1: Route=[0, 28, 21, 24, 19, 25, 0], Distance=174.22, RemCap=391.0

Vehicle 2: Route=[0, 30, 17, 0], Distance=93.08, RemCap=472.0

Vehicle 3: Route=[0, 26, 0], Distance=53.67, RemCap=472.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9388.68

--------------------------------------------------

Ep 7/50 | Reward 2931.30 | Loss 126116014.12 | Dist 617.22 | Vehl 4

Vehicle 0: Route=[0, 18, 13, 12, 24, 15, 14, 1, 3, 4, 2, 5, 19, 7, 6, 8, 17, 11, 10, 9, 28, 22, 20, 0], Distance=279.57, RemCap=107.0

Vehicle 1: Route=[0, 26, 29, 21, 16, 0], Distance=141.32, RemCap=392.0

Vehicle 2: Route=[0, 30, 25, 27, 0], Distance=153.84, RemCap=446.0

Vehicle 3: Route=[0, 23, 0], Distance=42.49, RemCap=486.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9462.49

--------------------------------------------------

Ep 8/50 | Reward 3052.15 | Loss 140281549.05 | Dist 645.84 | Vehl 4

Vehicle 0: Route=[0, 18, 13, 12, 21, 15, 14, 2, 1, 3, 4, 29, 5, 7, 6, 26, 8, 17, 11, 10, 9, 28, 20, 0], Distance=282.15, RemCap=69.0

Vehicle 1: Route=[0, 22, 23, 19, 25, 0], Distance=152.73, RemCap=427.0

Vehicle 2: Route=[0, 30, 24, 16, 0], Distance=147.08, RemCap=445.0

Vehicle 3: Route=[0, 27, 0], Distance=63.88, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8890.70

--------------------------------------------------

Ep 9/50 | Reward 2926.47 | Loss 128641269.85 | Dist 564.52 | Vehl 4

Vehicle 0: Route=[0, 13, 12, 15, 14, 1, 3, 4, 2, 5, 19, 27, 7, 6, 26, 8, 30, 11, 10, 9, 28, 20, 0], Distance=282.39, RemCap=97.0

Vehicle 1: Route=[0, 17, 23, 24, 21, 16, 0], Distance=105.69, RemCap=423.0

Vehicle 2: Route=[0, 18, 22, 0], Distance=112.85, RemCap=470.0

Vehicle 3: Route=[0, 29, 25, 0], Distance=63.59, RemCap=441.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9655.25

--------------------------------------------------

Ep 10/50 | Reward 2926.90 | Loss 137111945.01 | Dist 737.02 | Vehl 4

Vehicle 0: Route=[0, 23, 11, 10, 9, 28, 30, 8, 6, 5, 29, 4, 3, 1, 2, 15, 14, 18, 13, 12, 16, 0], Distance=282.64, RemCap=101.0

Vehicle 1: Route=[0, 26, 27, 7, 21, 20, 0], Distance=206.67, RemCap=412.0

Vehicle 2: Route=[0, 25, 19, 22, 0], Distance=149.19, RemCap=441.0

Vehicle 3: Route=[0, 24, 17, 0], Distance=98.52, RemCap=477.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8831.77

--------------------------------------------------

Ep 11/50 | Reward 2819.93 | Loss 110596604.49 | Dist 657.44 | Vehl 4

Vehicle 0: Route=[0, 11, 10, 9, 28, 22, 8, 26, 6, 7, 27, 5, 2, 4, 3, 1, 14, 15, 21, 12, 13, 16, 0], Distance=267.02, RemCap=112.0

Vehicle 1: Route=[0, 25, 29, 23, 30, 17, 0], Distance=167.49, RemCap=399.0

Vehicle 2: Route=[0, 24, 19, 0], Distance=107.01, RemCap=450.0

Vehicle 3: Route=[0, 18, 20, 0], Distance=115.92, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9029.34

--------------------------------------------------

Ep 12/50 | Reward 3125.33 | Loss 161373669.37 | Dist 668.98 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 30, 8, 26, 6, 7, 27, 5, 2, 4, 3, 1, 14, 15, 24, 21, 12, 13, 16, 0], Distance=273.01, RemCap=84.0

Vehicle 1: Route=[0, 29, 23, 22, 0], Distance=143.26, RemCap=436.0

Vehicle 2: Route=[0, 25, 19, 18, 20, 0], Distance=166.04, RemCap=421.0

Vehicle 3: Route=[0, 28, 0], Distance=86.67, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7722.64

--------------------------------------------------

Ep 13/50 | Reward 2792.93 | Loss 113310816.03 | Dist 685.72 | Vehl 4

Vehicle 0: Route=[0, 2, 5, 4, 3, 1, 14, 15, 12, 13, 18, 23, 11, 10, 9, 30, 8, 26, 6, 7, 27, 0], Distance=276.04, RemCap=113.0

Vehicle 1: Route=[0, 25, 29, 21, 20, 0], Distance=164.20, RemCap=401.0

Vehicle 2: Route=[0, 22, 28, 24, 16, 0], Distance=132.79, RemCap=450.0

Vehicle 3: Route=[0, 19, 17, 0], Distance=112.69, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9726.37

--------------------------------------------------

Ep 14/50 | Reward 2926.96 | Loss 131402262.13 | Dist 697.54 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 5, 29, 4, 3, 1, 2, 14, 15, 24, 12, 13, 23, 17, 8, 11, 10, 9, 28, 22, 20, 0], Distance=302.08, RemCap=103.0

Vehicle 1: Route=[0, 18, 19, 26, 27, 0], Distance=163.67, RemCap=412.0

Vehicle 2: Route=[0, 21, 0], Distance=67.19, RemCap=470.0

Vehicle 3: Route=[0, 25, 30, 16, 0], Distance=164.60, RemCap=446.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9458.67

--------------------------------------------------

Ep 15/50 | Reward 2766.15 | Loss 102538921.23 | Dist 675.88 | Vehl 4

Vehicle 0: Route=[0, 8, 30, 9, 10, 11, 17, 23, 13, 12, 21, 24, 15, 14, 1, 3, 4, 29, 2, 5, 6, 7, 27, 0], Distance=278.39, RemCap=68.0

Vehicle 1: Route=[0, 22, 19, 25, 0], Distance=149.19, RemCap=441.0

Vehicle 2: Route=[0, 26, 28, 18, 16, 0], Distance=162.50, RemCap=432.0

Vehicle 3: Route=[0, 20, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10075.41

--------------------------------------------------

Ep 16/50 | Reward 3320.94 | Loss 185065493.44 | Dist 509.83 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 19, 5, 2, 4, 3, 1, 14, 15, 24, 12, 13, 11, 10, 9, 28, 22, 20, 30, 8, 17, 23, 18, 16, 0], Distance=326.73, RemCap=58.0

Vehicle 1: Route=[0, 21, 29, 25, 0], Distance=100.73, RemCap=411.0

Vehicle 2: Route=[0, 26, 27, 0], Distance=82.37, RemCap=462.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 6887.92

--------------------------------------------------

Ep 17/50 | Reward 3093.90 | Loss 149314489.54 | Dist 631.78 | Vehl 4

Vehicle 0: Route=[0, 25, 6, 7, 19, 5, 2, 4, 3, 1, 14, 15, 12, 13, 18, 17, 8, 30, 11, 10, 9, 28, 22, 20, 0], Distance=309.99, RemCap=83.0

Vehicle 1: Route=[0, 24, 23, 26, 0], Distance=129.77, RemCap=438.0

Vehicle 2: Route=[0, 21, 29, 27, 0], Distance=131.92, RemCap=420.0

Vehicle 3: Route=[0, 16, 0], Distance=60.09, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7685.91

--------------------------------------------------

Ep 18/50 | Reward 2963.11 | Loss 126497926.56 | Dist 633.72 | Vehl 4

Vehicle 0: Route=[0, 25, 2, 1, 3, 4, 29, 5, 7, 6, 26, 8, 17, 9, 10, 11, 23, 18, 14, 15, 21, 12, 13, 16, 0], Distance=285.29, RemCap=46.0

Vehicle 1: Route=[0, 28, 30, 19, 27, 0], Distance=195.01, RemCap=425.0

Vehicle 2: Route=[0, 22, 20, 0], Distance=89.95, RemCap=480.0

Vehicle 3: Route=[0, 24, 0], Distance=63.46, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8454.53

--------------------------------------------------

Ep 19/50 | Reward 2993.60 | Loss 125430830.08 | Dist 694.73 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 7, 6, 26, 8, 30, 22, 9, 10, 11, 17, 23, 18, 14, 15, 12, 13, 16, 0], Distance=289.19, RemCap=60.0

Vehicle 1: Route=[0, 24, 20, 0], Distance=130.53, RemCap=470.0

Vehicle 2: Route=[0, 28, 25, 19, 0], Distance=150.77, RemCap=441.0

Vehicle 3: Route=[0, 21, 27, 0], Distance=124.25, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9088.87

--------------------------------------------------

Ep 20/50 | Reward 2949.54 | Loss 125168637.93 | Dist 737.02 | Vehl 4

Vehicle 0: Route=[0, 18, 13, 12, 21, 15, 14, 2, 1, 3, 4, 29, 5, 27, 7, 6, 8, 11, 10, 9, 20, 0], Distance=279.74, RemCap=100.0

Vehicle 1: Route=[0, 25, 26, 30, 16, 0], Distance=177.64, RemCap=418.0

Vehicle 2: Route=[0, 24, 23, 22, 17, 0], Distance=128.93, RemCap=453.0

Vehicle 3: Route=[0, 28, 19, 0], Distance=150.71, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8379.23

--------------------------------------------------

Ep 21/50 | Reward 3130.37 | Loss 148582824.25 | Dist 603.47 | Vehl 4

Vehicle 0: Route=[0, 11, 10, 9, 22, 30, 8, 26, 27, 7, 6, 25, 19, 5, 2, 29, 4, 3, 1, 15, 14, 18, 13, 12, 16, 0], Distance=296.87, RemCap=18.0

Vehicle 1: Route=[0, 28, 21, 0], Distance=128.36, RemCap=460.0

Vehicle 2: Route=[0, 24, 17, 20, 0], Distance=135.76, RemCap=467.0

Vehicle 3: Route=[0, 23, 0], Distance=42.49, RemCap=486.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8344.12

--------------------------------------------------

Ep 22/50 | Reward 2822.76 | Loss 110622379.97 | Dist 719.76 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 5, 2, 29, 4, 3, 1, 24, 15, 14, 18, 23, 17, 8, 20, 9, 10, 11, 13, 12, 16, 0], Distance=316.42, RemCap=93.0

Vehicle 1: Route=[0, 28, 30, 19, 27, 0], Distance=195.01, RemCap=425.0

Vehicle 2: Route=[0, 22, 26, 25, 0], Distance=141.14, RemCap=443.0

Vehicle 3: Route=[0, 21, 0], Distance=67.19, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9912.09

--------------------------------------------------

Ep 23/50 | Reward 3070.39 | Loss 141566253.62 | Dist 538.00 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 5, 2, 29, 4, 3, 1, 14, 15, 24, 21, 12, 13, 16, 18, 23, 10, 9, 22, 11, 8, 30, 20, 0], Distance=318.09, RemCap=31.0

Vehicle 1: Route=[0, 17, 28, 26, 19, 27, 0], Distance=190.10, RemCap=419.0

Vehicle 2: Route=[0, 25, 0], Distance=29.81, RemCap=481.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 8723.03

--------------------------------------------------

Ep 24/50 | Reward 3029.96 | Loss 140472359.21 | Dist 589.36 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 19, 27, 7, 6, 26, 8, 30, 17, 22, 28, 9, 10, 11, 13, 12, 15, 14, 16, 0], Distance=297.12, RemCap=84.0

Vehicle 1: Route=[0, 25, 29, 21, 20, 0], Distance=164.20, RemCap=401.0

Vehicle 2: Route=[0, 18, 23, 0], Distance=64.58, RemCap=466.0

Vehicle 3: Route=[0, 24, 0], Distance=63.46, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8700.94

--------------------------------------------------

Ep 25/50 | Reward 2764.51 | Loss 103593595.34 | Dist 702.03 | Vehl 4

Vehicle 0: Route=[0, 25, 6, 7, 27, 5, 2, 4, 3, 1, 14, 15, 21, 12, 13, 17, 8, 30, 11, 10, 9, 20, 0], Distance=306.62, RemCap=113.0

Vehicle 1: Route=[0, 29, 24, 22, 28, 0], Distance=156.70, RemCap=420.0

Vehicle 2: Route=[0, 19, 23, 16, 0], Distance=133.70, RemCap=446.0

Vehicle 3: Route=[0, 26, 18, 0], Distance=105.01, RemCap=452.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10018.91

--------------------------------------------------

Ep 26/50 | Reward 2872.65 | Loss 113860501.87 | Dist 670.05 | Vehl 4

Vehicle 0: Route=[0, 17, 8, 30, 28, 9, 10, 11, 13, 12, 21, 24, 15, 14, 1, 3, 4, 29, 2, 5, 6, 7, 27, 0], Distance=286.22, RemCap=72.0

Vehicle 1: Route=[0, 26, 18, 23, 20, 0], Distance=169.94, RemCap=428.0

Vehicle 2: Route=[0, 25, 22, 16, 0], Distance=149.76, RemCap=461.0

Vehicle 3: Route=[0, 19, 0], Distance=64.12, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9052.82

--------------------------------------------------

Ep 27/50 | Reward 3158.93 | Loss 152521737.59 | Dist 674.72 | Vehl 4

Vehicle 0: Route=[0, 25, 6, 7, 5, 2, 29, 4, 3, 1, 14, 15, 24, 21, 12, 13, 23, 10, 9, 11, 8, 30, 20, 0], Distance=317.21, RemCap=52.0

Vehicle 1: Route=[0, 18, 22, 26, 0], Distance=152.35, RemCap=442.0

Vehicle 2: Route=[0, 17, 28, 16, 0], Distance=121.71, RemCap=477.0

Vehicle 3: Route=[0, 19, 27, 0], Distance=83.45, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8354.71

--------------------------------------------------

Ep 28/50 | Reward 3294.80 | Loss 182166536.93 | Dist 554.51 | Vehl 4

Vehicle 0: Route=[0, 2, 5, 4, 3, 1, 14, 15, 24, 12, 13, 18, 23, 11, 10, 9, 28, 22, 20, 30, 8, 26, 6, 7, 27, 0], Distance=280.47, RemCap=63.0

Vehicle 1: Route=[0, 29, 21, 17, 0], Distance=129.81, RemCap=427.0

Vehicle 2: Route=[0, 19, 0], Distance=64.12, RemCap=470.0

Vehicle 3: Route=[0, 25, 16, 0], Distance=80.11, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7462.86

--------------------------------------------------

Ep 29/50 | Reward 3154.62 | Loss 161066944.30 | Dist 636.35 | Vehl 4

Vehicle 0: Route=[0, 26, 8, 11, 22, 9, 10, 23, 18, 14, 15, 13, 12, 21, 24, 2, 1, 3, 4, 29, 5, 19, 6, 7, 27, 0], Distance=298.71, RemCap=8.0

Vehicle 1: Route=[0, 25, 30, 16, 0], Distance=164.60, RemCap=446.0

Vehicle 2: Route=[0, 20, 0], Distance=85.80, RemCap=490.0

Vehicle 3: Route=[0, 28, 17, 0], Distance=87.24, RemCap=487.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8144.63

--------------------------------------------------

Ep 30/50 | Reward 3012.75 | Loss 135564867.40 | Dist 586.00 | Vehl 4

Vehicle 0: Route=[0, 23, 11, 10, 9, 28, 20, 8, 7, 6, 25, 19, 5, 2, 29, 4, 3, 1, 15, 14, 18, 13, 12, 16, 0], Distance=293.84, RemCap=57.0

Vehicle 1: Route=[0, 30, 22, 24, 21, 0], Distance=161.20, RemCap=415.0

Vehicle 2: Route=[0, 26, 27, 0], Distance=82.37, RemCap=462.0

Vehicle 3: Route=[0, 17, 0], Distance=48.59, RemCap=497.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9189.08

--------------------------------------------------

Ep 31/50 | Reward 2796.31 | Loss 109420763.60 | Dist 619.48 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 27, 7, 6, 26, 8, 28, 9, 10, 11, 18, 14, 15, 21, 12, 13, 16, 0], Distance=277.22, RemCap=62.0

Vehicle 1: Route=[0, 24, 0], Distance=63.46, RemCap=480.0

Vehicle 2: Route=[0, 25, 23, 22, 20, 0], Distance=124.30, RemCap=447.0

Vehicle 3: Route=[0, 19, 30, 17, 0], Distance=154.49, RemCap=442.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9494.46

--------------------------------------------------

Ep 32/50 | Reward 2907.31 | Loss 122481778.89 | Dist 572.30 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 8, 30, 9, 10, 11, 23, 13, 12, 15, 14, 16, 0], Distance=281.84, RemCap=81.0

Vehicle 1: Route=[0, 25, 24, 21, 22, 28, 20, 0], Distance=152.98, RemCap=401.0

Vehicle 2: Route=[0, 26, 0], Distance=53.67, RemCap=472.0

Vehicle 3: Route=[0, 18, 17, 0], Distance=83.81, RemCap=477.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9317.15

--------------------------------------------------

Ep 33/50 | Reward 2803.38 | Loss 112500897.46 | Dist 641.50 | Vehl 4

Vehicle 0: Route=[0, 18, 13, 12, 15, 14, 1, 3, 4, 5, 2, 25, 6, 27, 8, 30, 17, 11, 10, 9, 28, 20, 0], Distance=301.35, RemCap=123.0

Vehicle 1: Route=[0, 7, 19, 29, 21, 16, 0], Distance=131.82, RemCap=380.0

Vehicle 2: Route=[0, 24, 26, 0], Distance=116.76, RemCap=452.0

Vehicle 3: Route=[0, 22, 23, 0], Distance=91.56, RemCap=476.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10094.55

--------------------------------------------------

Ep 34/50 | Reward 2774.24 | Loss 107206185.78 | Dist 654.30 | Vehl 4

Vehicle 0: Route=[0, 25, 2, 1, 3, 4, 5, 19, 7, 6, 8, 20, 9, 10, 11, 23, 13, 12, 21, 24, 15, 14, 16, 0], Distance=280.53, RemCap=77.0

Vehicle 1: Route=[0, 26, 30, 22, 17, 0], Distance=138.09, RemCap=434.0

Vehicle 2: Route=[0, 28, 27, 0], Distance=148.02, RemCap=480.0

Vehicle 3: Route=[0, 29, 18, 0], Distance=87.66, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10128.07

--------------------------------------------------

Ep 35/50 | Reward 2894.83 | Loss 112161333.16 | Dist 577.53 | Vehl 4

Vehicle 0: Route=[0, 25, 6, 7, 5, 2, 29, 4, 3, 1, 14, 15, 12, 13, 17, 8, 30, 9, 10, 11, 22, 28, 20, 0], Distance=306.04, RemCap=93.0

Vehicle 1: Route=[0, 27, 19, 23, 24, 21, 16, 0], Distance=166.47, RemCap=386.0

Vehicle 2: Route=[0, 18, 26, 0], Distance=105.01, RemCap=452.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 9709.16

--------------------------------------------------

Ep 36/50 | Reward 3199.16 | Loss 155557735.23 | Dist 611.01 | Vehl 4

Vehicle 0: Route=[0, 23, 18, 13, 12, 15, 14, 1, 3, 4, 2, 5, 19, 27, 7, 6, 26, 8, 30, 11, 10, 9, 28, 20, 0], Distance=295.71, RemCap=63.0

Vehicle 1: Route=[0, 22, 24, 21, 0], Distance=133.35, RemCap=440.0

Vehicle 2: Route=[0, 25, 17, 16, 0], Distance=121.86, RemCap=468.0

Vehicle 3: Route=[0, 29, 0], Distance=60.09, RemCap=460.0

Total vehicle waiting time = 7.54

Total customer waiting time = 7236.77

--------------------------------------------------

Ep 37/50 | Reward 3161.44 | Loss 155719051.21 | Dist 478.53 | Vehl 4

Vehicle 0: Route=[0, 23, 11, 10, 9, 22, 20, 30, 8, 6, 7, 27, 19, 5, 2, 29, 4, 3, 1, 14, 15, 21, 12, 13, 16, 0], Distance=278.93, RemCap=31.0

Vehicle 1: Route=[0, 24, 18, 28, 17, 0], Distance=129.41, RemCap=447.0

Vehicle 2: Route=[0, 25, 26, 0], Distance=70.19, RemCap=453.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 8010.26

--------------------------------------------------

Ep 38/50 | Reward 2703.78 | Loss 95308044.81 | Dist 705.32 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 30, 8, 6, 7, 27, 5, 2, 29, 4, 3, 1, 18, 14, 15, 21, 12, 13, 16, 0], Distance=279.32, RemCap=72.0

Vehicle 1: Route=[0, 25, 26, 22, 23, 0], Distance=147.57, RemCap=429.0

Vehicle 2: Route=[0, 24, 28, 0], Distance=128.52, RemCap=470.0

Vehicle 3: Route=[0, 19, 20, 0], Distance=149.91, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10017.83

--------------------------------------------------

Ep 39/50 | Reward 2867.44 | Loss 110906097.71 | Dist 688.37 | Vehl 4

Vehicle 0: Route=[0, 25, 6, 7, 27, 5, 2, 4, 3, 1, 14, 15, 24, 12, 13, 23, 17, 8, 30, 11, 10, 9, 20, 0], Distance=308.42, RemCap=109.0

Vehicle 1: Route=[0, 26, 28, 18, 21, 16, 0], Distance=170.67, RemCap=402.0

Vehicle 2: Route=[0, 29, 0], Distance=60.09, RemCap=460.0

Vehicle 3: Route=[0, 22, 19, 0], Distance=149.18, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9519.58

--------------------------------------------------

Ep 40/50 | Reward 3184.75 | Loss 157012497.40 | Dist 593.31 | Vehl 4

Vehicle 0: Route=[0, 23, 17, 11, 10, 9, 22, 20, 30, 8, 26, 6, 7, 5, 2, 29, 4, 3, 1, 14, 15, 24, 12, 13, 16, 0], Distance=285.68, RemCap=50.0

Vehicle 1: Route=[0, 25, 19, 28, 21, 0], Distance=192.40, RemCap=411.0

Vehicle 2: Route=[0, 27, 0], Distance=63.88, RemCap=490.0

Vehicle 3: Route=[0, 18, 0], Distance=51.34, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7837.33

--------------------------------------------------

Ep 41/50 | Reward 2859.65 | Loss 119251307.73 | Dist 639.28 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 22, 20, 8, 6, 7, 19, 5, 2, 29, 4, 3, 1, 14, 15, 21, 12, 13, 16, 0], Distance=268.42, RemCap=77.0

Vehicle 1: Route=[0, 30, 18, 25, 27, 0], Distance=187.46, RemCap=426.0

Vehicle 2: Route=[0, 24, 23, 28, 0], Distance=129.73, RemCap=456.0

Vehicle 3: Route=[0, 26, 0], Distance=53.67, RemCap=472.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9906.96

--------------------------------------------------

Ep 42/50 | Reward 2934.71 | Loss 122128125.52 | Dist 680.40 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 27, 7, 6, 8, 20, 22, 9, 10, 11, 23, 13, 12, 24, 15, 14, 16, 0], Distance=282.38, RemCap=66.0

Vehicle 1: Route=[0, 18, 30, 0], Distance=128.22, RemCap=455.0

Vehicle 2: Route=[0, 26, 21, 17, 0], Distance=153.34, RemCap=439.0

Vehicle 3: Route=[0, 28, 25, 0], Distance=116.45, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8892.26

--------------------------------------------------

Ep 43/50 | Reward 2858.87 | Loss 116919684.11 | Dist 713.84 | Vehl 4

Vehicle 0: Route=[0, 23, 18, 13, 12, 15, 14, 1, 3, 4, 2, 5, 27, 6, 26, 8, 17, 11, 10, 9, 22, 20, 0], Distance=292.01, RemCap=125.0

Vehicle 1: Route=[0, 19, 7, 28, 24, 0], Distance=206.71, RemCap=430.0

Vehicle 2: Route=[0, 30, 29, 21, 16, 0], Distance=185.30, RemCap=395.0

Vehicle 3: Route=[0, 25, 0], Distance=29.81, RemCap=481.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9470.08

--------------------------------------------------

Ep 44/50 | Reward 2850.53 | Loss 117145766.27 | Dist 706.52 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 28, 22, 8, 6, 7, 27, 5, 2, 29, 4, 3, 1, 15, 14, 18, 13, 16, 0], Distance=269.68, RemCap=147.0

Vehicle 1: Route=[0, 26, 24, 12, 20, 0], Distance=188.97, RemCap=402.0

Vehicle 2: Route=[0, 30, 19, 0], Distance=148.87, RemCap=445.0

Vehicle 3: Route=[0, 23, 21, 25, 0], Distance=99.00, RemCap=437.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9530.37

--------------------------------------------------

Ep 45/50 | Reward 2957.57 | Loss 124461314.53 | Dist 654.96 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 30, 8, 26, 6, 7, 27, 5, 29, 4, 3, 1, 2, 14, 15, 12, 13, 16, 0], Distance=277.77, RemCap=94.0

Vehicle 1: Route=[0, 23, 24, 25, 19, 0], Distance=131.07, RemCap=417.0

Vehicle 2: Route=[0, 21, 22, 20, 0], Distance=132.04, RemCap=450.0

Vehicle 3: Route=[0, 18, 28, 0], Distance=114.07, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8867.62

--------------------------------------------------

Ep 46/50 | Reward 2884.01 | Loss 110641566.28 | Dist 628.79 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 22, 30, 8, 7, 6, 25, 2, 5, 4, 3, 1, 14, 15, 24, 21, 12, 13, 18, 16, 0], Distance=287.16, RemCap=73.0

Vehicle 1: Route=[0, 23, 28, 26, 19, 27, 0], Distance=195.74, RemCap=408.0

Vehicle 2: Route=[0, 29, 0], Distance=60.09, RemCap=460.0

Vehicle 3: Route=[0, 20, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9574.80

--------------------------------------------------

Ep 47/50 | Reward 2796.19 | Loss 106644745.49 | Dist 602.99 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 29, 5, 19, 7, 6, 8, 20, 28, 9, 10, 11, 17, 23, 13, 12, 21, 15, 14, 16, 0], Distance=287.11, RemCap=63.0

Vehicle 1: Route=[0, 24, 22, 30, 26, 0], Distance=179.75, RemCap=417.0

Vehicle 2: Route=[0, 18, 25, 0], Distance=72.26, RemCap=461.0

Vehicle 3: Route=[0, 27, 0], Distance=63.88, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10462.98

--------------------------------------------------

Ep 48/50 | Reward 2637.95 | Loss 90545052.76 | Dist 649.96 | Vehl 4

Vehicle 0: Route=[0, 11, 10, 9, 22, 20, 8, 6, 7, 27, 5, 2, 29, 4, 3, 1, 14, 15, 24, 21, 13, 16, 0], Distance=268.05, RemCap=120.0

Vehicle 1: Route=[0, 25, 26, 28, 12, 18, 0], Distance=184.93, RemCap=383.0

Vehicle 2: Route=[0, 19, 30, 17, 0], Distance=154.49, RemCap=442.0

Vehicle 3: Route=[0, 23, 0], Distance=42.49, RemCap=486.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10937.58

--------------------------------------------------

Ep 49/50 | Reward 2943.48 | Loss 129023619.46 | Dist 537.14 | Vehl 4

Vehicle 0: Route=[0, 17, 11, 10, 9, 20, 8, 6, 7, 19, 5, 29, 4, 3, 1, 2, 14, 15, 24, 21, 12, 13, 16, 0], Distance=275.13, RemCap=67.0

Vehicle 1: Route=[0, 22, 28, 30, 26, 27, 0], Distance=167.62, RemCap=417.0

Vehicle 2: Route=[0, 18, 23, 0], Distance=64.58, RemCap=466.0

Vehicle 3: Route=[0, 25, 0], Distance=29.81, RemCap=481.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9655.06

--------------------------------------------------

Ep 50/50 | Reward 2947.93 | Loss 127704662.91 | Dist 650.74 | Vehl 4

Vehicle 0: Route=[0, 2, 29, 1, 3, 4, 5, 27, 7, 6, 26, 8, 9, 10, 11, 23, 18, 14, 15, 24, 12, 13, 16, 0], Distance=280.39, RemCap=68.0

Vehicle 1: Route=[0, 25, 19, 28, 20, 0], Distance=155.14, RemCap=431.0

Vehicle 2: Route=[0, 21, 22, 17, 0], Distance=127.75, RemCap=457.0

Vehicle 3: Route=[0, 30, 0], Distance=87.46, RemCap=475.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9180.50

--------------------------------------------------

Saved results to F:/KLTN/code/output30\h30d15\_results.docx

=== Processing h30d20.csv ===

--- Training with max\_vehicles = 2 ---

Ep 1/50 | Reward 3028.39 | Loss 147202321.79 | Dist 529.48 | Vehl 2

Vehicle 0: Route=[0, 20, 14, 5, 2, 4, 3, 1, 19, 11, 26, 28, 9, 29, 10, 17, 15, 25, 8, 21, 6, 7, 22, 0], Distance=284.43, RemCap=88.0

Vehicle 1: Route=[0, 12, 23, 18, 30, 27, 24, 13, 16, 0], Distance=245.05, RemCap=354.0

Total vehicle waiting time = 105.80

Total customer waiting time = 10126.54

--------------------------------------------------

Ep 2/50 | Reward 2895.19 | Loss 126965246.70 | Dist 534.74 | Vehl 2

Vehicle 0: Route=[0, 18, 26, 11, 19, 30, 2, 1, 3, 4, 24, 5, 20, 6, 7, 22, 21, 8, 25, 12, 15, 9, 29, 10, 17, 23, 0], Distance=327.93, RemCap=62.0

Vehicle 1: Route=[0, 28, 13, 16, 14, 27, 0], Distance=206.81, RemCap=380.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10187.38

--------------------------------------------------

Ep 3/50 | Reward 2918.38 | Loss 131132286.76 | Dist 485.57 | Vehl 2

Vehicle 0: Route=[0, 12, 8, 25, 15, 23, 9, 28, 29, 10, 13, 11, 16, 1, 3, 4, 24, 2, 5, 14, 22, 27, 7, 6, 20, 30, 0], Distance=311.23, RemCap=44.0

Vehicle 1: Route=[0, 21, 17, 18, 19, 26, 0], Distance=174.34, RemCap=398.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10357.99

--------------------------------------------------

Ep 4/50 | Reward 2632.16 | Loss 89571591.02 | Dist 521.81 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 16, 19, 1, 3, 4, 2, 5, 14, 20, 6, 7, 22, 21, 8, 15, 9, 28, 29, 10, 12, 0], Distance=281.66, RemCap=101.0

Vehicle 1: Route=[0, 27, 24, 11, 26, 18, 25, 17, 23, 0], Distance=240.16, RemCap=341.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11018.87

--------------------------------------------------

Ep 5/50 | Reward 2782.39 | Loss 111968868.69 | Dist 548.20 | Vehl 2

Vehicle 0: Route=[0, 20, 6, 7, 5, 24, 4, 3, 1, 2, 30, 12, 8, 25, 17, 23, 9, 29, 10, 18, 13, 11, 16, 0], Distance=316.06, RemCap=110.0

Vehicle 1: Route=[0, 21, 27, 22, 14, 19, 26, 15, 28, 0], Distance=232.14, RemCap=332.0

Total vehicle waiting time = 103.37

Total customer waiting time = 10692.14

--------------------------------------------------

Ep 6/50 | Reward 2875.46 | Loss 117993545.30 | Dist 429.72 | Vehl 2

Vehicle 0: Route=[0, 11, 26, 16, 19, 2, 1, 3, 4, 24, 5, 14, 22, 27, 7, 6, 21, 8, 25, 17, 23, 9, 28, 10, 12, 0], Distance=286.15, RemCap=24.0

Vehicle 1: Route=[0, 20, 30, 13, 18, 29, 15, 0], Distance=143.57, RemCap=418.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9098.20

--------------------------------------------------

Ep 7/50 | Reward 2814.74 | Loss 118145746.28 | Dist 542.03 | Vehl 2

Vehicle 0: Route=[0, 20, 2, 24, 1, 3, 4, 5, 6, 7, 27, 21, 8, 12, 18, 30, 13, 19, 16, 11, 26, 10, 28, 9, 15, 23, 0], Distance=342.52, RemCap=27.0

Vehicle 1: Route=[0, 29, 17, 25, 14, 22, 0], Distance=199.51, RemCap=415.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9967.40

--------------------------------------------------

Ep 8/50 | Reward 2889.80 | Loss 123633489.83 | Dist 533.48 | Vehl 2

Vehicle 0: Route=[0, 13, 26, 11, 19, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 21, 8, 12, 10, 29, 9, 23, 17, 15, 0], Distance=286.28, RemCap=70.0

Vehicle 1: Route=[0, 27, 22, 30, 16, 28, 25, 18, 0], Distance=247.20, RemCap=372.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10106.57

--------------------------------------------------

Ep 9/50 | Reward 2755.10 | Loss 109908685.34 | Dist 502.31 | Vehl 2

Vehicle 0: Route=[0, 6, 27, 22, 7, 5, 4, 3, 1, 24, 2, 30, 19, 16, 13, 18, 12, 10, 29, 28, 9, 23, 25, 8, 21, 0], Distance=312.51, RemCap=51.0

Vehicle 1: Route=[0, 14, 20, 15, 17, 26, 11, 0], Distance=189.80, RemCap=391.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10842.67

--------------------------------------------------

Ep 10/50 | Reward 2900.72 | Loss 126492876.60 | Dist 523.10 | Vehl 2

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 14, 6, 7, 22, 27, 21, 8, 25, 12, 18, 13, 19, 11, 10, 29, 9, 15, 17, 23, 0], Distance=336.65, RemCap=90.0

Vehicle 1: Route=[0, 28, 26, 16, 30, 20, 24, 0], Distance=186.46, RemCap=352.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8242.28

--------------------------------------------------

Ep 11/50 | Reward 2697.52 | Loss 99852604.57 | Dist 538.40 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 26, 19, 1, 3, 4, 2, 5, 14, 20, 6, 7, 22, 27, 8, 25, 12, 18, 10, 15, 9, 28, 29, 0], Distance=339.94, RemCap=70.0

Vehicle 1: Route=[0, 24, 16, 11, 23, 17, 21, 0], Distance=198.46, RemCap=372.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10994.12

--------------------------------------------------

Ep 12/50 | Reward 2868.46 | Loss 117943355.82 | Dist 503.27 | Vehl 2

Vehicle 0: Route=[0, 21, 8, 25, 15, 9, 29, 10, 17, 12, 18, 13, 11, 16, 30, 1, 3, 4, 24, 2, 5, 14, 6, 7, 27, 0], Distance=311.61, RemCap=51.0

Vehicle 1: Route=[0, 22, 20, 19, 26, 28, 23, 0], Distance=191.67, RemCap=391.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10333.12

--------------------------------------------------

Ep 13/50 | Reward 3031.39 | Loss 144194396.26 | Dist 525.45 | Vehl 2

Vehicle 0: Route=[0, 12, 13, 11, 16, 19, 1, 3, 4, 5, 2, 20, 6, 7, 27, 21, 8, 25, 9, 28, 10, 17, 15, 0], Distance=314.92, RemCap=95.0

Vehicle 1: Route=[0, 22, 14, 24, 26, 29, 23, 18, 30, 0], Distance=210.53, RemCap=347.0

Total vehicle waiting time = 95.33

Total customer waiting time = 10402.33

--------------------------------------------------

Ep 14/50 | Reward 2961.96 | Loss 125499445.40 | Dist 496.99 | Vehl 2

Vehicle 0: Route=[0, 20, 2, 24, 1, 3, 4, 5, 14, 6, 7, 27, 21, 8, 25, 15, 9, 28, 10, 12, 18, 30, 13, 26, 16, 11, 0], Distance=310.97, RemCap=2.0

Vehicle 1: Route=[0, 22, 19, 29, 23, 17, 0], Distance=186.02, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9545.77

--------------------------------------------------

Ep 15/50 | Reward 2823.82 | Loss 111904339.04 | Dist 526.25 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 22, 14, 5, 4, 3, 1, 2, 30, 13, 19, 26, 18, 12, 8, 25, 15, 17, 10, 9, 28, 29, 0], Distance=324.30, RemCap=79.0

Vehicle 1: Route=[0, 20, 24, 16, 11, 23, 21, 0], Distance=201.95, RemCap=363.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9709.46

--------------------------------------------------

Ep 16/50 | Reward 2907.78 | Loss 121629863.67 | Dist 499.93 | Vehl 2

Vehicle 0: Route=[0, 20, 30, 11, 26, 16, 19, 2, 1, 3, 4, 24, 5, 14, 7, 6, 21, 8, 25, 17, 23, 9, 10, 12, 18, 0], Distance=307.27, RemCap=32.0

Vehicle 1: Route=[0, 13, 29, 28, 15, 27, 22, 0], Distance=192.67, RemCap=410.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9746.80

--------------------------------------------------

Ep 17/50 | Reward 2991.61 | Loss 129968287.15 | Dist 530.62 | Vehl 2

Vehicle 0: Route=[0, 18, 11, 16, 30, 1, 3, 4, 5, 2, 20, 6, 7, 21, 8, 25, 12, 15, 17, 10, 9, 28, 0], Distance=322.48, RemCap=132.0

Vehicle 1: Route=[0, 23, 29, 13, 26, 19, 24, 14, 27, 22, 0], Distance=208.13, RemCap=310.0

Total vehicle waiting time = 89.95

Total customer waiting time = 10383.94

--------------------------------------------------

Ep 18/50 | Reward 3014.45 | Loss 136323206.87 | Dist 443.35 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 5, 20, 6, 7, 27, 21, 8, 25, 15, 17, 23, 9, 28, 29, 10, 12, 18, 13, 19, 26, 11, 0], Distance=309.40, RemCap=52.0

Vehicle 1: Route=[0, 16, 24, 14, 22, 0], Distance=133.95, RemCap=390.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9895.87

--------------------------------------------------

Ep 19/50 | Reward 3066.12 | Loss 147916653.69 | Dist 538.73 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 26, 19, 1, 3, 4, 24, 5, 2, 20, 6, 7, 22, 21, 8, 12, 18, 10, 28, 9, 23, 17, 15, 0], Distance=305.50, RemCap=67.0

Vehicle 1: Route=[0, 14, 27, 25, 29, 16, 11, 0], Distance=233.22, RemCap=375.0

Total vehicle waiting time = 24.93

Total customer waiting time = 10199.62

--------------------------------------------------

Ep 20/50 | Reward 3009.02 | Loss 135511397.12 | Dist 498.02 | Vehl 2

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 24, 5, 14, 20, 6, 7, 21, 8, 25, 15, 17, 9, 28, 10, 18, 26, 16, 19, 11, 0], Distance=304.79, RemCap=15.0

Vehicle 1: Route=[0, 27, 22, 13, 12, 23, 29, 0], Distance=193.23, RemCap=427.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9739.39

--------------------------------------------------

Ep 21/50 | Reward 2803.32 | Loss 108266662.52 | Dist 544.92 | Vehl 2

Vehicle 0: Route=[0, 12, 10, 29, 9, 23, 17, 8, 21, 22, 7, 6, 20, 5, 24, 4, 3, 1, 2, 30, 19, 16, 11, 0], Distance=287.09, RemCap=111.0

Vehicle 1: Route=[0, 27, 14, 13, 26, 18, 28, 25, 15, 0], Distance=257.83, RemCap=331.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11438.06

--------------------------------------------------

Ep 22/50 | Reward 2954.56 | Loss 123192140.42 | Dist 546.56 | Vehl 2

Vehicle 0: Route=[0, 30, 1, 3, 4, 24, 2, 5, 22, 7, 6, 21, 8, 25, 15, 23, 9, 28, 26, 19, 13, 18, 10, 29, 0], Distance=341.00, RemCap=64.0

Vehicle 1: Route=[0, 12, 17, 11, 16, 14, 27, 20, 0], Distance=205.56, RemCap=378.0

Total vehicle waiting time = 40.17

Total customer waiting time = 10613.00

--------------------------------------------------

Ep 23/50 | Reward 3239.74 | Loss 166945202.67 | Dist 466.37 | Vehl 2

Vehicle 0: Route=[0, 20, 14, 5, 2, 24, 4, 3, 1, 19, 16, 26, 13, 18, 10, 28, 9, 17, 12, 8, 21, 6, 7, 27, 22, 0], Distance=298.07, RemCap=16.0

Vehicle 1: Route=[0, 25, 15, 23, 29, 30, 11, 0], Distance=168.29, RemCap=426.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9655.34

--------------------------------------------------

Ep 24/50 | Reward 2965.05 | Loss 135007826.62 | Dist 509.08 | Vehl 2

Vehicle 0: Route=[0, 8, 25, 15, 17, 9, 28, 29, 10, 26, 16, 19, 13, 1, 3, 4, 2, 5, 14, 20, 6, 7, 27, 22, 0], Distance=300.13, RemCap=56.0

Vehicle 1: Route=[0, 21, 24, 30, 11, 18, 23, 12, 0], Distance=208.95, RemCap=386.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9660.40

--------------------------------------------------

Ep 25/50 | Reward 3018.52 | Loss 143637835.06 | Dist 530.51 | Vehl 2

Vehicle 0: Route=[0, 8, 25, 9, 29, 10, 23, 12, 18, 26, 19, 13, 30, 1, 3, 4, 24, 5, 2, 20, 6, 7, 22, 0], Distance=301.82, RemCap=100.0

Vehicle 1: Route=[0, 14, 27, 21, 15, 17, 28, 16, 11, 0], Distance=228.69, RemCap=342.0

Total vehicle waiting time = 30.20

Total customer waiting time = 10014.52

--------------------------------------------------

Ep 26/50 | Reward 3013.51 | Loss 136060315.99 | Dist 526.42 | Vehl 2

Vehicle 0: Route=[0, 30, 10, 9, 23, 17, 15, 12, 8, 21, 27, 7, 6, 20, 14, 5, 2, 24, 4, 3, 1, 19, 16, 13, 11, 0], Distance=313.85, RemCap=51.0

Vehicle 1: Route=[0, 26, 18, 29, 28, 25, 22, 0], Distance=212.57, RemCap=391.0

Total vehicle waiting time = 116.09

Total customer waiting time = 11711.15

--------------------------------------------------

Ep 27/50 | Reward 3034.21 | Loss 135742380.53 | Dist 504.42 | Vehl 2

Vehicle 0: Route=[0, 20, 2, 1, 3, 4, 24, 5, 7, 6, 21, 8, 25, 15, 17, 23, 9, 29, 10, 12, 18, 13, 19, 16, 11, 0], Distance=288.13, RemCap=61.0

Vehicle 1: Route=[0, 30, 28, 26, 14, 27, 22, 0], Distance=216.29, RemCap=381.0

Total vehicle waiting time = 0.90

Total customer waiting time = 9889.44

--------------------------------------------------

Ep 28/50 | Reward 2824.72 | Loss 116566336.71 | Dist 494.03 | Vehl 2

Vehicle 0: Route=[0, 8, 21, 27, 22, 7, 6, 20, 14, 5, 2, 24, 4, 3, 1, 30, 16, 26, 13, 18, 10, 29, 9, 12, 0], Distance=308.36, RemCap=47.0

Vehicle 1: Route=[0, 19, 11, 25, 15, 17, 28, 23, 0], Distance=185.67, RemCap=395.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10756.41

--------------------------------------------------

Ep 29/50 | Reward 2823.70 | Loss 106605489.37 | Dist 487.31 | Vehl 2

Vehicle 0: Route=[0, 30, 26, 11, 19, 1, 3, 4, 5, 2, 20, 6, 7, 21, 8, 25, 17, 23, 10, 29, 9, 28, 0], Distance=275.69, RemCap=119.0

Vehicle 1: Route=[0, 27, 22, 14, 24, 16, 13, 18, 12, 15, 0], Distance=211.62, RemCap=323.0

Total vehicle waiting time = 101.09

Total customer waiting time = 11315.85

--------------------------------------------------

Ep 30/50 | Reward 2992.75 | Loss 128396562.15 | Dist 466.17 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 11, 26, 16, 1, 3, 4, 24, 5, 2, 20, 6, 7, 22, 27, 21, 8, 25, 15, 17, 10, 29, 9, 28, 0], Distance=284.93, RemCap=19.0

Vehicle 1: Route=[0, 14, 19, 18, 12, 23, 0], Distance=181.25, RemCap=423.0

Total vehicle waiting time = 20.89

Total customer waiting time = 10147.00

--------------------------------------------------

Ep 31/50 | Reward 2958.05 | Loss 121990515.95 | Dist 519.73 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 11, 16, 1, 3, 4, 24, 2, 5, 7, 6, 21, 8, 25, 12, 18, 10, 29, 9, 23, 15, 0], Distance=305.92, RemCap=101.0

Vehicle 1: Route=[0, 17, 28, 26, 19, 20, 14, 22, 27, 0], Distance=213.82, RemCap=341.0

Total vehicle waiting time = 120.31

Total customer waiting time = 11034.57

--------------------------------------------------

Ep 32/50 | Reward 2965.55 | Loss 128338089.31 | Dist 478.64 | Vehl 2

Vehicle 0: Route=[0, 30, 18, 10, 28, 9, 23, 17, 15, 25, 8, 21, 27, 7, 6, 5, 2, 24, 4, 3, 1, 19, 16, 11, 0], Distance=283.78, RemCap=64.0

Vehicle 1: Route=[0, 22, 14, 20, 13, 26, 29, 12, 0], Distance=194.86, RemCap=378.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11537.08

--------------------------------------------------

Ep 33/50 | Reward 2932.62 | Loss 120995937.09 | Dist 520.27 | Vehl 2

Vehicle 0: Route=[0, 13, 19, 26, 18, 10, 29, 28, 9, 23, 25, 8, 21, 20, 2, 1, 3, 4, 5, 6, 7, 22, 27, 0], Distance=310.27, RemCap=84.0

Vehicle 1: Route=[0, 14, 24, 30, 12, 15, 17, 11, 16, 0], Distance=210.00, RemCap=358.0

Total vehicle waiting time = 87.34

Total customer waiting time = 11358.69

--------------------------------------------------

Ep 34/50 | Reward 2888.30 | Loss 114230813.13 | Dist 501.15 | Vehl 2

Vehicle 0: Route=[0, 30, 19, 16, 13, 18, 12, 10, 28, 9, 17, 25, 8, 21, 7, 6, 20, 2, 24, 1, 3, 4, 5, 14, 0], Distance=307.57, RemCap=42.0

Vehicle 1: Route=[0, 22, 27, 15, 23, 29, 26, 11, 0], Distance=193.58, RemCap=400.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11168.08

--------------------------------------------------

Ep 35/50 | Reward 2966.63 | Loss 132391184.87 | Dist 492.67 | Vehl 2

Vehicle 0: Route=[0, 8, 25, 17, 23, 9, 29, 10, 12, 18, 13, 26, 16, 19, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 22, 0], Distance=292.82, RemCap=39.0

Vehicle 1: Route=[0, 27, 21, 15, 28, 11, 30, 0], Distance=199.85, RemCap=403.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10555.32

--------------------------------------------------

Ep 36/50 | Reward 3088.53 | Loss 138787715.69 | Dist 491.71 | Vehl 2

Vehicle 0: Route=[0, 12, 18, 26, 13, 30, 2, 1, 3, 4, 24, 5, 14, 6, 7, 22, 27, 21, 8, 25, 10, 29, 9, 15, 0], Distance=320.19, RemCap=61.0

Vehicle 1: Route=[0, 20, 17, 23, 28, 11, 19, 16, 0], Distance=171.52, RemCap=381.0

Total vehicle waiting time = 96.27

Total customer waiting time = 10150.26

--------------------------------------------------

Ep 37/50 | Reward 3147.21 | Loss 146958511.69 | Dist 523.07 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 11, 26, 16, 1, 3, 4, 24, 2, 5, 14, 6, 7, 27, 8, 25, 15, 23, 9, 28, 10, 18, 12, 0], Distance=298.71, RemCap=39.0

Vehicle 1: Route=[0, 19, 29, 17, 21, 20, 22, 0], Distance=224.36, RemCap=403.0

Total vehicle waiting time = 228.75

Total customer waiting time = 10313.21

--------------------------------------------------

Ep 38/50 | Reward 3026.48 | Loss 137821759.81 | Dist 518.48 | Vehl 2

Vehicle 0: Route=[0, 5, 4, 3, 1, 24, 2, 30, 13, 19, 16, 11, 26, 29, 9, 23, 10, 12, 8, 21, 6, 7, 27, 22, 0], Distance=306.16, RemCap=70.0

Vehicle 1: Route=[0, 20, 14, 18, 28, 17, 25, 15, 0], Distance=212.32, RemCap=372.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9621.67

--------------------------------------------------

Ep 39/50 | Reward 2757.75 | Loss 99849471.19 | Dist 485.81 | Vehl 2

Vehicle 0: Route=[0, 20, 14, 5, 2, 24, 4, 3, 1, 30, 19, 26, 10, 28, 9, 23, 17, 15, 12, 8, 21, 27, 6, 7, 22, 0], Distance=314.43, RemCap=51.0

Vehicle 1: Route=[0, 25, 29, 16, 11, 13, 18, 0], Distance=171.38, RemCap=391.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10914.87

--------------------------------------------------

Ep 40/50 | Reward 2871.51 | Loss 110649973.43 | Dist 507.25 | Vehl 2

Vehicle 0: Route=[0, 21, 8, 25, 15, 17, 9, 10, 12, 18, 13, 11, 26, 16, 30, 1, 3, 4, 24, 2, 5, 14, 6, 7, 22, 0], Distance=305.34, RemCap=41.0

Vehicle 1: Route=[0, 27, 20, 19, 23, 28, 29, 0], Distance=201.90, RemCap=401.0

Total vehicle waiting time = 2.89

Total customer waiting time = 9668.09

--------------------------------------------------

Ep 41/50 | Reward 2806.84 | Loss 99922444.02 | Dist 504.48 | Vehl 2

Vehicle 0: Route=[0, 8, 25, 15, 17, 9, 29, 10, 26, 16, 11, 13, 30, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 27, 22, 0], Distance=302.14, RemCap=37.0

Vehicle 1: Route=[0, 21, 19, 18, 12, 23, 28, 0], Distance=202.34, RemCap=405.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9361.44

--------------------------------------------------

Ep 42/50 | Reward 3059.33 | Loss 138515045.14 | Dist 473.67 | Vehl 2

Vehicle 0: Route=[0, 13, 11, 16, 19, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 22, 27, 21, 8, 15, 17, 9, 28, 29, 10, 18, 12, 0], Distance=308.42, RemCap=16.0

Vehicle 1: Route=[0, 30, 26, 25, 23, 0], Distance=165.25, RemCap=426.0

Total vehicle waiting time = 20.14

Total customer waiting time = 9009.29

--------------------------------------------------

Ep 43/50 | Reward 2908.80 | Loss 120808661.43 | Dist 506.50 | Vehl 2

Vehicle 0: Route=[0, 20, 2, 1, 3, 4, 5, 14, 22, 7, 6, 21, 8, 25, 15, 17, 9, 28, 29, 10, 12, 18, 30, 13, 19, 16, 11, 0], Distance=309.58, RemCap=42.0

Vehicle 1: Route=[0, 27, 24, 26, 23, 0], Distance=196.92, RemCap=400.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9193.16

--------------------------------------------------

Ep 44/50 | Reward 2928.61 | Loss 126655276.72 | Dist 477.71 | Vehl 2

Vehicle 0: Route=[0, 20, 2, 5, 24, 4, 3, 1, 19, 16, 11, 26, 18, 10, 29, 28, 9, 23, 17, 15, 8, 21, 6, 7, 14, 0], Distance=289.52, RemCap=29.0

Vehicle 1: Route=[0, 30, 13, 12, 25, 22, 27, 0], Distance=188.19, RemCap=413.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9687.24

--------------------------------------------------

Ep 45/50 | Reward 2880.87 | Loss 116661374.73 | Dist 513.14 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 22, 14, 5, 4, 3, 1, 24, 2, 30, 18, 12, 8, 25, 15, 17, 10, 9, 28, 26, 11, 13, 0], Distance=324.76, RemCap=59.0

Vehicle 1: Route=[0, 19, 16, 29, 23, 21, 20, 0], Distance=188.39, RemCap=383.0

Total vehicle waiting time = 19.58

Total customer waiting time = 10904.23

--------------------------------------------------

Ep 46/50 | Reward 2753.87 | Loss 104726497.07 | Dist 522.82 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 14, 5, 4, 3, 1, 24, 2, 20, 30, 16, 13, 12, 10, 28, 9, 23, 15, 25, 8, 21, 0], Distance=322.50, RemCap=46.0

Vehicle 1: Route=[0, 22, 17, 29, 18, 19, 11, 26, 0], Distance=200.32, RemCap=396.0

Total vehicle waiting time = 0.00

Total customer waiting time = 11257.84

--------------------------------------------------

Ep 47/50 | Reward 2816.84 | Loss 104712659.78 | Dist 496.77 | Vehl 2

Vehicle 0: Route=[0, 30, 13, 19, 16, 11, 26, 12, 10, 29, 28, 9, 17, 25, 8, 21, 20, 2, 1, 3, 4, 5, 6, 7, 22, 27, 0], Distance=324.94, RemCap=46.0

Vehicle 1: Route=[0, 15, 23, 18, 14, 24, 0], Distance=171.82, RemCap=396.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9766.78

--------------------------------------------------

Ep 48/50 | Reward 2983.87 | Loss 122103519.96 | Dist 507.73 | Vehl 2

Vehicle 0: Route=[0, 6, 7, 27, 8, 25, 15, 17, 9, 29, 10, 12, 18, 26, 11, 16, 19, 1, 3, 4, 24, 5, 2, 30, 0], Distance=289.26, RemCap=79.0

Vehicle 1: Route=[0, 21, 22, 14, 20, 13, 23, 28, 0], Distance=218.47, RemCap=363.0

Total vehicle waiting time = 36.69

Total customer waiting time = 10141.21

--------------------------------------------------

Ep 49/50 | Reward 2954.26 | Loss 124376686.09 | Dist 488.76 | Vehl 2

Vehicle 0: Route=[0, 20, 2, 1, 3, 4, 24, 5, 14, 22, 27, 7, 6, 8, 12, 17, 23, 9, 28, 29, 10, 18, 30, 16, 0], Distance=303.09, RemCap=85.0

Vehicle 1: Route=[0, 21, 25, 15, 13, 19, 26, 11, 0], Distance=185.67, RemCap=357.0

Total vehicle waiting time = 68.27

Total customer waiting time = 10766.93

--------------------------------------------------

Ep 50/50 | Reward 2928.76 | Loss 124960774.17 | Dist 515.17 | Vehl 2

Vehicle 0: Route=[0, 20, 21, 6, 7, 27, 22, 14, 5, 2, 4, 3, 1, 16, 26, 11, 30, 18, 12, 8, 25, 15, 9, 28, 10, 23, 0], Distance=356.85, RemCap=42.0

Vehicle 1: Route=[0, 17, 29, 13, 19, 24, 0], Distance=158.32, RemCap=400.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9084.06

--------------------------------------------------

--- Training with max\_vehicles = 3 ---

Ep 1/50 | Reward 3124.36 | Loss 160746024.76 | Dist 683.19 | Vehl 3

Vehicle 0: Route=[0, 20, 6, 7, 5, 2, 24, 4, 3, 1, 30, 16, 28, 9, 10, 8, 25, 15, 17, 23, 0], Distance=326.94, RemCap=137.0

Vehicle 1: Route=[0, 12, 26, 11, 19, 13, 22, 0], Distance=163.02, RemCap=407.0

Vehicle 2: Route=[0, 29, 18, 14, 27, 21, 0], Distance=193.23, RemCap=398.0

Total vehicle waiting time = 176.04

Total customer waiting time = 9136.81

--------------------------------------------------

Ep 2/50 | Reward 3054.33 | Loss 143633044.28 | Dist 580.45 | Vehl 3

Vehicle 0: Route=[0, 30, 10, 9, 15, 25, 8, 21, 22, 7, 6, 20, 14, 5, 2, 24, 4, 3, 1, 19, 16, 0], Distance=294.52, RemCap=89.0

Vehicle 1: Route=[0, 27, 12, 17, 23, 29, 0], Distance=156.31, RemCap=447.0

Vehicle 2: Route=[0, 13, 11, 26, 28, 18, 0], Distance=129.62, RemCap=406.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8647.32

--------------------------------------------------

Ep 3/50 | Reward 2843.04 | Loss 124427525.55 | Dist 656.45 | Vehl 3

Vehicle 0: Route=[0, 18, 11, 16, 19, 30, 20, 2, 1, 3, 4, 5, 14, 6, 7, 27, 8, 25, 12, 10, 9, 23, 15, 0], Distance=333.26, RemCap=110.0

Vehicle 1: Route=[0, 24, 13, 26, 29, 21, 22, 0], Distance=225.25, RemCap=362.0

Vehicle 2: Route=[0, 28, 17, 0], Distance=97.93, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9516.65

--------------------------------------------------

Ep 4/50 | Reward 3182.84 | Loss 156367835.76 | Dist 572.02 | Vehl 3

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 24, 5, 14, 20, 6, 7, 27, 21, 8, 25, 9, 10, 12, 18, 13, 19, 16, 26, 11, 0], Distance=317.14, RemCap=12.0

Vehicle 1: Route=[0, 29, 23, 17, 22, 0], Distance=152.69, RemCap=460.0

Vehicle 2: Route=[0, 15, 28, 0], Distance=102.19, RemCap=470.0

Total vehicle waiting time = 68.24

Total customer waiting time = 7578.80

--------------------------------------------------

Ep 5/50 | Reward 2846.15 | Loss 118281434.74 | Dist 646.29 | Vehl 3

Vehicle 0: Route=[0, 12, 10, 29, 28, 9, 17, 25, 8, 6, 7, 22, 5, 4, 3, 1, 24, 2, 30, 13, 19, 26, 11, 0], Distance=290.26, RemCap=103.0

Vehicle 1: Route=[0, 23, 18, 20, 27, 21, 0], Distance=179.74, RemCap=409.0

Vehicle 2: Route=[0, 14, 16, 15, 0], Distance=176.30, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9065.55

--------------------------------------------------

Ep 6/50 | Reward 2833.72 | Loss 115618425.80 | Dist 598.24 | Vehl 3

Vehicle 0: Route=[0, 30, 13, 11, 19, 1, 3, 4, 5, 2, 20, 6, 7, 21, 8, 25, 12, 18, 10, 29, 28, 9, 17, 15, 0], Distance=313.55, RemCap=112.0

Vehicle 1: Route=[0, 27, 22, 14, 16, 26, 0], Distance=140.97, RemCap=380.0

Vehicle 2: Route=[0, 23, 24, 0], Distance=143.72, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8141.74

--------------------------------------------------

Ep 7/50 | Reward 2892.02 | Loss 122320463.54 | Dist 631.13 | Vehl 3

Vehicle 0: Route=[0, 8, 21, 27, 22, 7, 6, 5, 24, 4, 3, 1, 2, 30, 19, 26, 18, 10, 28, 9, 23, 17, 0], Distance=292.29, RemCap=99.0

Vehicle 1: Route=[0, 13, 16, 15, 25, 0], Distance=154.49, RemCap=415.0

Vehicle 2: Route=[0, 14, 20, 12, 29, 11, 0], Distance=184.34, RemCap=428.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8836.52

--------------------------------------------------

Ep 8/50 | Reward 2720.58 | Loss 105068248.30 | Dist 634.80 | Vehl 3

Vehicle 0: Route=[0, 8, 21, 27, 7, 6, 14, 5, 2, 24, 4, 3, 1, 16, 26, 13, 30, 18, 10, 28, 9, 15, 0], Distance=296.59, RemCap=59.0

Vehicle 1: Route=[0, 20, 22, 17, 23, 29, 19, 0], Distance=196.04, RemCap=421.0

Vehicle 2: Route=[0, 11, 25, 12, 0], Distance=142.17, RemCap=462.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9748.02

--------------------------------------------------

Ep 9/50 | Reward 3050.81 | Loss 134512873.95 | Dist 617.96 | Vehl 3

Vehicle 0: Route=[0, 20, 2, 1, 3, 4, 24, 5, 14, 6, 7, 27, 21, 8, 25, 23, 9, 10, 30, 19, 11, 0], Distance=294.60, RemCap=99.0

Vehicle 1: Route=[0, 13, 26, 28, 17, 12, 0], Distance=128.47, RemCap=417.0

Vehicle 2: Route=[0, 15, 29, 18, 16, 22, 0], Distance=194.89, RemCap=426.0

Total vehicle waiting time = 242.36

Total customer waiting time = 10024.40

--------------------------------------------------

Ep 10/50 | Reward 2771.30 | Loss 108947212.15 | Dist 662.05 | Vehl 3

Vehicle 0: Route=[0, 20, 6, 7, 5, 24, 4, 3, 1, 2, 19, 26, 13, 12, 8, 25, 9, 29, 10, 17, 15, 0], Distance=304.46, RemCap=123.0

Vehicle 1: Route=[0, 27, 30, 23, 28, 18, 0], Distance=181.92, RemCap=427.0

Vehicle 2: Route=[0, 11, 16, 14, 21, 22, 0], Distance=175.67, RemCap=392.0

Total vehicle waiting time = 51.43

Total customer waiting time = 10277.47

--------------------------------------------------

Ep 11/50 | Reward 3047.07 | Loss 148110758.37 | Dist 665.58 | Vehl 3

Vehicle 0: Route=[0, 30, 26, 19, 1, 3, 4, 24, 2, 5, 14, 7, 6, 21, 8, 12, 17, 23, 9, 28, 10, 18, 0], Distance=271.71, RemCap=96.0

Vehicle 1: Route=[0, 27, 25, 29, 13, 11, 0], Distance=206.07, RemCap=415.0

Vehicle 2: Route=[0, 15, 16, 20, 22, 0], Distance=187.80, RemCap=431.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9043.97

--------------------------------------------------

Ep 12/50 | Reward 2688.61 | Loss 95523636.86 | Dist 647.61 | Vehl 3

Vehicle 0: Route=[0, 30, 1, 3, 4, 2, 5, 14, 6, 7, 27, 21, 8, 9, 28, 29, 10, 18, 13, 19, 16, 11, 0], Distance=287.25, RemCap=99.0

Vehicle 1: Route=[0, 25, 17, 24, 22, 0], Distance=204.82, RemCap=415.0

Vehicle 2: Route=[0, 20, 12, 15, 23, 26, 0], Distance=155.54, RemCap=428.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9663.33

--------------------------------------------------

Ep 13/50 | Reward 2988.03 | Loss 134610071.04 | Dist 591.31 | Vehl 3

Vehicle 0: Route=[0, 18, 10, 28, 9, 23, 12, 8, 21, 27, 22, 7, 6, 20, 14, 5, 24, 4, 3, 1, 2, 19, 11, 0], Distance=299.96, RemCap=86.0

Vehicle 1: Route=[0, 30, 13, 25, 17, 29, 0], Distance=160.70, RemCap=426.0

Vehicle 2: Route=[0, 16, 26, 15, 0], Distance=130.66, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8876.34

--------------------------------------------------

Ep 14/50 | Reward 2725.04 | Loss 100422953.67 | Dist 611.51 | Vehl 3

Vehicle 0: Route=[0, 8, 17, 9, 29, 10, 18, 26, 16, 11, 30, 20, 2, 1, 3, 4, 24, 5, 14, 6, 7, 22, 27, 0], Distance=297.03, RemCap=78.0

Vehicle 1: Route=[0, 19, 28, 25, 21, 0], Distance=187.60, RemCap=407.0

Vehicle 2: Route=[0, 13, 12, 23, 15, 0], Distance=126.88, RemCap=457.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8867.78

--------------------------------------------------

Ep 15/50 | Reward 2879.22 | Loss 113120451.30 | Dist 718.53 | Vehl 3

Vehicle 0: Route=[0, 6, 27, 22, 7, 5, 4, 3, 1, 2, 20, 18, 12, 8, 25, 10, 9, 28, 19, 11, 0], Distance=341.76, RemCap=169.0

Vehicle 1: Route=[0, 21, 30, 16, 26, 23, 15, 0], Distance=186.47, RemCap=383.0

Vehicle 2: Route=[0, 14, 24, 17, 29, 13, 0], Distance=190.31, RemCap=390.0

Total vehicle waiting time = 256.60

Total customer waiting time = 9636.10

--------------------------------------------------

Ep 16/50 | Reward 2928.09 | Loss 125567700.88 | Dist 547.12 | Vehl 3

Vehicle 0: Route=[0, 30, 10, 29, 28, 9, 17, 15, 8, 21, 7, 6, 20, 14, 5, 2, 24, 4, 3, 1, 19, 16, 11, 0], Distance=291.83, RemCap=74.0

Vehicle 1: Route=[0, 18, 26, 13, 27, 22, 0], Distance=140.44, RemCap=406.0

Vehicle 2: Route=[0, 25, 23, 12, 0], Distance=114.85, RemCap=462.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9845.70

--------------------------------------------------

Ep 17/50 | Reward 2891.51 | Loss 114730778.66 | Dist 637.68 | Vehl 3

Vehicle 0: Route=[0, 8, 15, 23, 9, 29, 10, 18, 26, 11, 19, 13, 30, 1, 3, 4, 24, 2, 5, 14, 6, 7, 22, 0], Distance=281.00, RemCap=97.0

Vehicle 1: Route=[0, 21, 20, 16, 17, 28, 0], Distance=199.21, RemCap=393.0

Vehicle 2: Route=[0, 27, 12, 25, 0], Distance=157.47, RemCap=452.0

Total vehicle waiting time = 18.64

Total customer waiting time = 8636.67

--------------------------------------------------

Ep 18/50 | Reward 2855.60 | Loss 120544519.23 | Dist 647.57 | Vehl 3

Vehicle 0: Route=[0, 20, 2, 5, 4, 3, 1, 16, 26, 11, 30, 18, 12, 10, 28, 9, 17, 25, 8, 21, 6, 7, 22, 0], Distance=301.71, RemCap=102.0

Vehicle 1: Route=[0, 23, 19, 27, 14, 24, 0], Distance=225.28, RemCap=380.0

Vehicle 2: Route=[0, 13, 29, 15, 0], Distance=120.57, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8716.05

--------------------------------------------------

Ep 19/50 | Reward 2771.00 | Loss 103083502.58 | Dist 643.45 | Vehl 3

Vehicle 0: Route=[0, 20, 2, 5, 4, 3, 1, 19, 26, 10, 28, 9, 23, 17, 25, 8, 21, 6, 7, 27, 0], Distance=275.54, RemCap=128.0

Vehicle 1: Route=[0, 12, 29, 18, 30, 24, 16, 11, 0], Distance=182.54, RemCap=384.0

Vehicle 2: Route=[0, 15, 13, 14, 22, 0], Distance=185.37, RemCap=430.0

Total vehicle waiting time = 145.79

Total customer waiting time = 9816.34

--------------------------------------------------

Ep 20/50 | Reward 2746.82 | Loss 95011652.78 | Dist 591.42 | Vehl 3

Vehicle 0: Route=[0, 18, 13, 26, 16, 1, 3, 4, 2, 5, 14, 6, 7, 27, 8, 25, 15, 17, 10, 29, 9, 28, 0], Distance=290.71, RemCap=91.0

Vehicle 1: Route=[0, 12, 23, 30, 20, 22, 0], Distance=161.79, RemCap=449.0

Vehicle 2: Route=[0, 21, 24, 19, 11, 0], Distance=138.91, RemCap=402.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9151.65

--------------------------------------------------

Ep 21/50 | Reward 3088.87 | Loss 143630365.50 | Dist 558.86 | Vehl 3

Vehicle 0: Route=[0, 20, 14, 5, 2, 24, 4, 3, 1, 16, 13, 18, 12, 10, 29, 9, 23, 17, 25, 8, 21, 6, 7, 27, 22, 0], Distance=302.58, RemCap=41.0

Vehicle 1: Route=[0, 30, 19, 26, 28, 0], Distance=132.99, RemCap=421.0

Vehicle 2: Route=[0, 15, 11, 0], Distance=123.29, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7284.36

--------------------------------------------------

Ep 22/50 | Reward 2602.59 | Loss 91575675.35 | Dist 628.97 | Vehl 3

Vehicle 0: Route=[0, 30, 13, 26, 1, 3, 4, 2, 5, 22, 27, 7, 6, 21, 8, 12, 10, 29, 28, 9, 17, 15, 0], Distance=280.65, RemCap=140.0

Vehicle 1: Route=[0, 20, 14, 18, 16, 19, 0], Distance=143.66, RemCap=387.0

Vehicle 2: Route=[0, 25, 23, 24, 11, 0], Distance=204.66, RemCap=415.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10927.88

--------------------------------------------------

Ep 23/50 | Reward 2752.26 | Loss 95841210.29 | Dist 623.17 | Vehl 3

Vehicle 0: Route=[0, 6, 7, 22, 27, 21, 8, 12, 23, 9, 10, 18, 13, 26, 11, 19, 1, 3, 4, 5, 14, 2, 30, 0], Distance=298.60, RemCap=106.0

Vehicle 1: Route=[0, 20, 24, 17, 28, 29, 0], Distance=158.74, RemCap=401.0

Vehicle 2: Route=[0, 16, 25, 15, 0], Distance=165.84, RemCap=435.0

Total vehicle waiting time = 0.32

Total customer waiting time = 9754.92

--------------------------------------------------

Ep 24/50 | Reward 2739.80 | Loss 106244178.25 | Dist 601.47 | Vehl 3

Vehicle 0: Route=[0, 30, 16, 18, 12, 10, 28, 9, 23, 17, 25, 8, 27, 22, 7, 6, 5, 4, 3, 1, 2, 20, 0], Distance=291.84, RemCap=140.0

Vehicle 1: Route=[0, 21, 14, 19, 26, 13, 29, 15, 0], Distance=216.20, RemCap=352.0

Vehicle 2: Route=[0, 24, 11, 0], Distance=93.43, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9944.73

--------------------------------------------------

Ep 25/50 | Reward 3056.88 | Loss 145166102.87 | Dist 637.54 | Vehl 3

Vehicle 0: Route=[0, 30, 8, 25, 9, 29, 10, 12, 18, 13, 26, 19, 1, 3, 4, 24, 2, 5, 14, 6, 7, 27, 22, 0], Distance=307.90, RemCap=79.0

Vehicle 1: Route=[0, 21, 17, 23, 11, 0], Distance=160.70, RemCap=442.0

Vehicle 2: Route=[0, 20, 15, 28, 16, 0], Distance=168.94, RemCap=421.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8110.60

--------------------------------------------------

Ep 26/50 | Reward 2848.92 | Loss 111253671.50 | Dist 570.86 | Vehl 3

Vehicle 0: Route=[0, 8, 12, 17, 9, 28, 10, 18, 26, 11, 16, 1, 3, 4, 24, 5, 2, 20, 6, 7, 27, 22, 0], Distance=283.22, RemCap=104.0

Vehicle 1: Route=[0, 30, 21, 25, 29, 23, 15, 0], Distance=177.99, RemCap=408.0

Vehicle 2: Route=[0, 14, 19, 13, 0], Distance=109.65, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10230.58

--------------------------------------------------

Ep 27/50 | Reward 3065.91 | Loss 140814318.16 | Dist 632.59 | Vehl 3

Vehicle 0: Route=[0, 12, 10, 29, 28, 9, 23, 17, 8, 27, 7, 6, 20, 5, 24, 4, 3, 1, 2, 19, 26, 11, 0], Distance=280.93, RemCap=118.0

Vehicle 1: Route=[0, 15, 13, 16, 14, 30, 0], Distance=191.70, RemCap=401.0

Vehicle 2: Route=[0, 18, 25, 21, 22, 0], Distance=159.96, RemCap=423.0

Total vehicle waiting time = 141.74

Total customer waiting time = 9807.72

--------------------------------------------------

Ep 28/50 | Reward 3000.32 | Loss 134308495.44 | Dist 598.12 | Vehl 3

Vehicle 0: Route=[0, 18, 26, 11, 19, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 21, 8, 12, 10, 9, 23, 17, 15, 0], Distance=297.11, RemCap=86.0

Vehicle 1: Route=[0, 30, 25, 27, 22, 0], Distance=165.85, RemCap=436.0

Vehicle 2: Route=[0, 29, 28, 13, 16, 0], Distance=135.17, RemCap=420.0

Total vehicle waiting time = 39.92

Total customer waiting time = 9412.63

--------------------------------------------------

Ep 29/50 | Reward 2879.54 | Loss 114486085.68 | Dist 585.28 | Vehl 3

Vehicle 0: Route=[0, 18, 12, 10, 29, 9, 23, 17, 15, 25, 8, 6, 7, 22, 14, 5, 2, 4, 3, 1, 19, 16, 11, 0], Distance=279.24, RemCap=128.0

Vehicle 1: Route=[0, 30, 20, 24, 26, 0], Distance=116.26, RemCap=402.0

Vehicle 2: Route=[0, 13, 28, 21, 27, 0], Distance=189.78, RemCap=412.0

Total vehicle waiting time = 188.64

Total customer waiting time = 9975.30

--------------------------------------------------

Ep 30/50 | Reward 2856.61 | Loss 115069832.28 | Dist 638.27 | Vehl 3

Vehicle 0: Route=[0, 30, 1, 3, 4, 2, 5, 14, 20, 6, 7, 27, 21, 8, 25, 17, 9, 10, 12, 18, 13, 19, 26, 11, 0], Distance=315.96, RemCap=72.0

Vehicle 1: Route=[0, 22, 24, 28, 15, 0], Distance=192.31, RemCap=420.0

Vehicle 2: Route=[0, 16, 29, 23, 0], Distance=130.00, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9517.06

--------------------------------------------------

Ep 31/50 | Reward 2716.78 | Loss 93608918.09 | Dist 604.27 | Vehl 3

Vehicle 0: Route=[0, 13, 26, 11, 19, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 22, 27, 8, 12, 10, 29, 9, 28, 0], Distance=290.78, RemCap=78.0

Vehicle 1: Route=[0, 16, 18, 21, 25, 15, 0], Distance=210.59, RemCap=393.0

Vehicle 2: Route=[0, 30, 17, 23, 0], Distance=102.90, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10193.97

--------------------------------------------------

Ep 32/50 | Reward 2951.42 | Loss 120990491.26 | Dist 628.87 | Vehl 3

Vehicle 0: Route=[0, 30, 2, 24, 1, 3, 4, 5, 22, 7, 6, 21, 8, 25, 17, 9, 28, 10, 13, 19, 26, 11, 0], Distance=288.25, RemCap=88.0

Vehicle 1: Route=[0, 20, 16, 12, 23, 15, 0], Distance=161.65, RemCap=428.0

Vehicle 2: Route=[0, 14, 27, 29, 18, 0], Distance=178.96, RemCap=426.0

Total vehicle waiting time = 126.41

Total customer waiting time = 9813.22

--------------------------------------------------

Ep 33/50 | Reward 2971.74 | Loss 133526322.12 | Dist 742.27 | Vehl 3

Vehicle 0: Route=[0, 30, 20, 21, 6, 7, 5, 2, 4, 3, 1, 19, 18, 12, 8, 25, 17, 10, 29, 9, 28, 26, 11, 0], Distance=371.93, RemCap=112.0

Vehicle 1: Route=[0, 23, 13, 24, 27, 22, 0], Distance=194.04, RemCap=400.0

Vehicle 2: Route=[0, 14, 16, 15, 0], Distance=176.30, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9324.61

--------------------------------------------------

Ep 34/50 | Reward 2730.88 | Loss 100613059.91 | Dist 656.65 | Vehl 3

Vehicle 0: Route=[0, 30, 12, 17, 10, 29, 28, 9, 25, 8, 6, 7, 5, 2, 24, 4, 3, 1, 16, 26, 11, 0], Distance=285.61, RemCap=123.0

Vehicle 1: Route=[0, 20, 19, 13, 15, 21, 27, 22, 0], Distance=216.99, RemCap=373.0

Vehicle 2: Route=[0, 23, 18, 14, 0], Distance=154.05, RemCap=446.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10512.52

--------------------------------------------------

Ep 35/50 | Reward 2727.50 | Loss 99591252.19 | Dist 645.66 | Vehl 3

Vehicle 0: Route=[0, 20, 6, 7, 14, 5, 24, 4, 3, 1, 2, 16, 12, 8, 25, 17, 23, 10, 29, 9, 28, 0], Distance=306.77, RemCap=113.0

Vehicle 1: Route=[0, 22, 18, 26, 19, 13, 30, 0], Distance=148.79, RemCap=397.0

Vehicle 2: Route=[0, 27, 21, 15, 11, 0], Distance=190.09, RemCap=432.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9672.46

--------------------------------------------------

Ep 36/50 | Reward 2903.47 | Loss 123618032.71 | Dist 648.78 | Vehl 3

Vehicle 0: Route=[0, 30, 26, 16, 2, 1, 3, 4, 24, 5, 20, 6, 7, 22, 21, 8, 25, 12, 15, 17, 9, 10, 29, 0], Distance=306.11, RemCap=86.0

Vehicle 1: Route=[0, 14, 27, 23, 18, 11, 0], Distance=209.33, RemCap=416.0

Vehicle 2: Route=[0, 28, 13, 19, 0], Distance=133.35, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8949.41

--------------------------------------------------

Ep 37/50 | Reward 2624.38 | Loss 89282520.37 | Dist 624.42 | Vehl 3

Vehicle 0: Route=[0, 13, 26, 16, 19, 1, 3, 4, 24, 2, 5, 7, 6, 21, 8, 25, 15, 23, 9, 10, 18, 0], Distance=264.57, RemCap=83.0

Vehicle 1: Route=[0, 20, 14, 11, 12, 17, 28, 0], Distance=190.06, RemCap=408.0

Vehicle 2: Route=[0, 22, 27, 29, 30, 0], Distance=169.79, RemCap=451.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10043.56

--------------------------------------------------

Ep 38/50 | Reward 2811.96 | Loss 105947182.26 | Dist 597.16 | Vehl 3

Vehicle 0: Route=[0, 2, 24, 1, 3, 4, 5, 22, 27, 7, 6, 21, 8, 17, 9, 28, 10, 18, 13, 19, 16, 26, 11, 0], Distance=285.79, RemCap=58.0

Vehicle 1: Route=[0, 14, 30, 12, 25, 23, 15, 0], Distance=194.72, RemCap=413.0

Vehicle 2: Route=[0, 20, 29, 0], Distance=116.65, RemCap=471.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10023.00

--------------------------------------------------

Ep 39/50 | Reward 2963.21 | Loss 128658405.69 | Dist 619.63 | Vehl 3

Vehicle 0: Route=[0, 30, 2, 24, 1, 3, 4, 5, 14, 20, 6, 7, 22, 27, 8, 15, 17, 23, 9, 29, 10, 18, 13, 19, 11, 0], Distance=303.01, RemCap=78.0

Vehicle 1: Route=[0, 16, 28, 21, 0], Distance=173.63, RemCap=422.0

Vehicle 2: Route=[0, 26, 25, 12, 0], Distance=142.99, RemCap=442.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8854.76

--------------------------------------------------

Ep 40/50 | Reward 3277.55 | Loss 191142831.47 | Dist 558.63 | Vehl 3

Vehicle 0: Route=[0, 30, 19, 16, 13, 18, 10, 29, 9, 23, 17, 8, 27, 7, 6, 20, 2, 24, 1, 3, 4, 5, 14, 22, 0], Distance=315.01, RemCap=68.0

Vehicle 1: Route=[0, 21, 25, 15, 28, 0], Distance=150.03, RemCap=417.0

Vehicle 2: Route=[0, 12, 26, 11, 0], Distance=93.59, RemCap=457.0

Total vehicle waiting time = 20.36

Total customer waiting time = 7687.54

--------------------------------------------------

Ep 41/50 | Reward 2975.72 | Loss 133058336.75 | Dist 588.71 | Vehl 3

Vehicle 0: Route=[0, 8, 21, 6, 7, 22, 14, 5, 24, 4, 3, 1, 2, 20, 19, 16, 18, 10, 29, 28, 9, 23, 17, 15, 0], Distance=304.84, RemCap=59.0

Vehicle 1: Route=[0, 30, 11, 25, 27, 0], Distance=190.98, RemCap=436.0

Vehicle 2: Route=[0, 13, 26, 12, 0], Distance=92.89, RemCap=447.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9806.88

--------------------------------------------------

Ep 42/50 | Reward 2613.17 | Loss 86050307.54 | Dist 662.19 | Vehl 3

Vehicle 0: Route=[0, 12, 10, 29, 9, 23, 17, 8, 27, 22, 7, 6, 20, 2, 5, 4, 3, 1, 19, 13, 26, 11, 0], Distance=277.34, RemCap=148.0

Vehicle 1: Route=[0, 30, 24, 21, 25, 28, 0], Distance=207.32, RemCap=378.0

Vehicle 2: Route=[0, 14, 16, 18, 15, 0], Distance=177.53, RemCap=416.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9938.30

--------------------------------------------------

Ep 43/50 | Reward 2804.28 | Loss 104938239.94 | Dist 565.63 | Vehl 3

Vehicle 0: Route=[0, 30, 16, 26, 18, 10, 28, 9, 23, 17, 25, 8, 21, 20, 2, 1, 3, 4, 5, 14, 6, 7, 22, 27, 0], Distance=310.60, RemCap=55.0

Vehicle 1: Route=[0, 19, 11, 29, 15, 0], Distance=134.91, RemCap=450.0

Vehicle 2: Route=[0, 24, 13, 12, 0], Distance=120.12, RemCap=437.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8720.65

--------------------------------------------------

Ep 44/50 | Reward 2912.63 | Loss 125615402.48 | Dist 648.92 | Vehl 3

Vehicle 0: Route=[0, 8, 25, 17, 9, 10, 12, 13, 16, 30, 1, 3, 4, 2, 5, 14, 20, 6, 7, 27, 22, 0], Distance=313.58, RemCap=134.0

Vehicle 1: Route=[0, 21, 24, 18, 29, 28, 15, 0], Distance=201.94, RemCap=378.0

Vehicle 2: Route=[0, 23, 26, 19, 11, 0], Distance=133.40, RemCap=430.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9548.56

--------------------------------------------------

Ep 45/50 | Reward 2586.39 | Loss 84173846.32 | Dist 597.32 | Vehl 3

Vehicle 0: Route=[0, 26, 16, 2, 1, 3, 4, 24, 5, 14, 6, 7, 22, 27, 21, 8, 12, 15, 17, 10, 9, 28, 0], Distance=292.54, RemCap=79.0

Vehicle 1: Route=[0, 20, 30, 23, 29, 13, 11, 0], Distance=161.27, RemCap=422.0

Vehicle 2: Route=[0, 19, 18, 25, 0], Distance=143.52, RemCap=441.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10222.25

--------------------------------------------------

Ep 46/50 | Reward 2795.41 | Loss 104031634.82 | Dist 636.72 | Vehl 3

Vehicle 0: Route=[0, 18, 10, 28, 9, 17, 25, 8, 6, 7, 22, 14, 5, 2, 24, 4, 3, 1, 19, 13, 26, 0], Distance=277.83, RemCap=91.0

Vehicle 1: Route=[0, 27, 12, 15, 29, 16, 11, 0], Distance=199.44, RemCap=417.0

Vehicle 2: Route=[0, 30, 20, 21, 23, 0], Distance=159.46, RemCap=434.0

Total vehicle waiting time = 172.21

Total customer waiting time = 10459.54

--------------------------------------------------

Ep 47/50 | Reward 2788.62 | Loss 104861246.16 | Dist 623.21 | Vehl 3

Vehicle 0: Route=[0, 30, 2, 5, 24, 4, 3, 1, 19, 16, 18, 10, 28, 9, 23, 17, 25, 8, 21, 6, 7, 22, 0], Distance=279.81, RemCap=94.0

Vehicle 1: Route=[0, 14, 20, 12, 26, 11, 0], Distance=157.69, RemCap=408.0

Vehicle 2: Route=[0, 27, 13, 29, 15, 0], Distance=185.71, RemCap=440.0

Total vehicle waiting time = 32.92

Total customer waiting time = 9435.26

--------------------------------------------------

Ep 48/50 | Reward 3140.60 | Loss 142407848.89 | Dist 573.03 | Vehl 3

Vehicle 0: Route=[0, 11, 26, 16, 1, 3, 4, 5, 2, 20, 6, 7, 27, 21, 8, 25, 9, 10, 23, 17, 15, 0], Distance=282.25, RemCap=118.0

Vehicle 1: Route=[0, 12, 29, 28, 18, 13, 14, 22, 0], Distance=192.12, RemCap=393.0

Vehicle 2: Route=[0, 30, 24, 19, 0], Distance=98.67, RemCap=431.0

Total vehicle waiting time = 268.09

Total customer waiting time = 9039.52

--------------------------------------------------

Ep 49/50 | Reward 2767.18 | Loss 101389216.73 | Dist 529.14 | Vehl 3

Vehicle 0: Route=[0, 30, 13, 26, 16, 19, 1, 3, 4, 24, 2, 5, 14, 6, 7, 27, 8, 12, 17, 23, 9, 28, 29, 10, 18, 0], Distance=280.57, RemCap=44.0

Vehicle 1: Route=[0, 15, 25, 21, 20, 22, 0], Distance=188.47, RemCap=408.0

Vehicle 2: Route=[0, 11, 0], Distance=60.09, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9463.77

--------------------------------------------------

Ep 50/50 | Reward 3114.76 | Loss 142716190.54 | Dist 660.31 | Vehl 3

Vehicle 0: Route=[0, 12, 18, 13, 16, 19, 2, 1, 3, 4, 24, 5, 6, 7, 27, 21, 8, 25, 17, 10, 9, 28, 29, 0], Distance=313.83, RemCap=70.0

Vehicle 1: Route=[0, 22, 20, 30, 23, 26, 11, 0], Distance=196.56, RemCap=412.0

Vehicle 2: Route=[0, 14, 15, 0], Distance=149.91, RemCap=460.0

Total vehicle waiting time = 86.89

Total customer waiting time = 9451.26

--------------------------------------------------

--- Training with max\_vehicles = 4 ---

Ep 1/50 | Reward 2599.62 | Loss 93315842.85 | Dist 664.98 | Vehl 4

Vehicle 0: Route=[0, 20, 6, 27, 22, 7, 5, 2, 4, 3, 1, 16, 18, 10, 28, 9, 23, 17, 12, 8, 25, 0], Distance=305.94, RemCap=149.0

Vehicle 1: Route=[0, 14, 24, 13, 15, 29, 0], Distance=179.54, RemCap=390.0

Vehicle 2: Route=[0, 26, 11, 0], Distance=62.71, RemCap=460.0

Vehicle 3: Route=[0, 19, 30, 21, 0], Distance=116.79, RemCap=443.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9854.42

--------------------------------------------------

Ep 2/50 | Reward 2648.58 | Loss 93578820.98 | Dist 687.38 | Vehl 4

Vehicle 0: Route=[0, 30, 1, 3, 4, 2, 5, 22, 27, 7, 6, 21, 8, 15, 23, 9, 29, 10, 18, 26, 11, 13, 0], Distance=275.84, RemCap=139.0

Vehicle 1: Route=[0, 20, 28, 17, 12, 0], Distance=128.06, RemCap=448.0

Vehicle 2: Route=[0, 16, 14, 0], Distance=112.83, RemCap=440.0

Vehicle 3: Route=[0, 24, 19, 25, 0], Distance=170.65, RemCap=415.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9689.71

--------------------------------------------------

Ep 3/50 | Reward 2745.04 | Loss 104140313.45 | Dist 707.17 | Vehl 4

Vehicle 0: Route=[0, 30, 16, 11, 13, 18, 10, 29, 28, 9, 23, 12, 8, 21, 27, 22, 7, 6, 20, 2, 5, 4, 3, 1, 24, 0], Distance=294.29, RemCap=67.0

Vehicle 1: Route=[0, 14, 17, 26, 0], Distance=184.20, RemCap=430.0

Vehicle 2: Route=[0, 19, 25, 0], Distance=142.88, RemCap=455.0

Vehicle 3: Route=[0, 15, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8992.92

--------------------------------------------------

Ep 4/50 | Reward 2902.30 | Loss 115627812.45 | Dist 793.61 | Vehl 4

Vehicle 0: Route=[0, 20, 6, 7, 5, 2, 24, 4, 3, 1, 16, 11, 30, 18, 12, 10, 28, 9, 23, 15, 8, 25, 0], Distance=313.03, RemCap=120.0

Vehicle 1: Route=[0, 21, 22, 26, 13, 0], Distance=139.33, RemCap=412.0

Vehicle 2: Route=[0, 27, 29, 19, 0], Distance=192.07, RemCap=450.0

Vehicle 3: Route=[0, 17, 14, 0], Distance=149.18, RemCap=460.0

Total vehicle waiting time = 91.47

Total customer waiting time = 7501.21

--------------------------------------------------

Ep 5/50 | Reward 2983.14 | Loss 130543695.03 | Dist 737.32 | Vehl 4

Vehicle 0: Route=[0, 20, 6, 7, 27, 14, 5, 4, 3, 1, 2, 30, 12, 10, 28, 9, 17, 25, 8, 21, 0], Distance=281.21, RemCap=146.0

Vehicle 1: Route=[0, 24, 19, 16, 11, 29, 26, 0], Distance=188.08, RemCap=360.0

Vehicle 2: Route=[0, 15, 13, 22, 0], Distance=175.13, RemCap=460.0

Vehicle 3: Route=[0, 18, 23, 0], Distance=92.89, RemCap=476.0

Total vehicle waiting time = 146.03

Total customer waiting time = 9168.65

--------------------------------------------------

Ep 6/50 | Reward 2902.71 | Loss 131572667.81 | Dist 638.07 | Vehl 4

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 24, 5, 6, 7, 27, 8, 15, 9, 28, 29, 10, 12, 18, 26, 16, 11, 13, 0], Distance=291.34, RemCap=94.0

Vehicle 1: Route=[0, 19, 22, 21, 25, 0], Distance=195.87, RemCap=417.0

Vehicle 2: Route=[0, 14, 20, 0], Distance=64.13, RemCap=451.0

Vehicle 3: Route=[0, 23, 17, 0], Distance=86.73, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8408.05

--------------------------------------------------

Ep 7/50 | Reward 2660.99 | Loss 95899043.25 | Dist 759.62 | Vehl 4

Vehicle 0: Route=[0, 19, 11, 10, 29, 9, 23, 17, 12, 8, 21, 7, 6, 20, 5, 2, 1, 3, 4, 24, 0], Distance=280.38, RemCap=160.0

Vehicle 1: Route=[0, 22, 27, 15, 30, 13, 0], Distance=194.83, RemCap=431.0

Vehicle 2: Route=[0, 28, 26, 16, 14, 0], Distance=177.73, RemCap=390.0

Vehicle 3: Route=[0, 18, 25, 0], Distance=106.68, RemCap=461.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9839.20

--------------------------------------------------

Ep 8/50 | Reward 2802.93 | Loss 109653406.46 | Dist 614.17 | Vehl 4

Vehicle 0: Route=[0, 20, 6, 7, 22, 5, 2, 4, 3, 1, 19, 16, 26, 11, 13, 18, 10, 29, 28, 9, 23, 17, 12, 8, 21, 0], Distance=282.93, RemCap=76.0

Vehicle 1: Route=[0, 30, 25, 27, 14, 0], Distance=185.35, RemCap=416.0

Vehicle 2: Route=[0, 24, 0], Distance=60.09, RemCap=460.0

Vehicle 3: Route=[0, 15, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8009.63

--------------------------------------------------

Ep 9/50 | Reward 2744.27 | Loss 103676327.63 | Dist 621.46 | Vehl 4

Vehicle 0: Route=[0, 18, 11, 16, 19, 1, 3, 4, 2, 5, 14, 22, 7, 6, 8, 25, 12, 15, 23, 9, 28, 10, 17, 0], Distance=304.66, RemCap=118.0

Vehicle 1: Route=[0, 21, 29, 26, 13, 24, 0], Distance=196.55, RemCap=372.0

Vehicle 2: Route=[0, 30, 27, 0], Distance=90.43, RemCap=471.0

Vehicle 3: Route=[0, 20, 0], Distance=29.81, RemCap=481.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9622.03

--------------------------------------------------

Ep 10/50 | Reward 2945.28 | Loss 128414676.12 | Dist 661.97 | Vehl 4

Vehicle 0: Route=[0, 20, 2, 1, 3, 4, 24, 5, 22, 27, 7, 6, 21, 8, 25, 12, 26, 10, 29, 9, 15, 23, 17, 0], Distance=328.78, RemCap=95.0

Vehicle 1: Route=[0, 30, 28, 11, 13, 14, 0], Distance=189.55, RemCap=411.0

Vehicle 2: Route=[0, 18, 16, 0], Distance=80.18, RemCap=456.0

Vehicle 3: Route=[0, 19, 0], Distance=63.46, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7900.92

--------------------------------------------------

Ep 11/50 | Reward 2794.32 | Loss 111810090.65 | Dist 695.40 | Vehl 4

Vehicle 0: Route=[0, 12, 23, 10, 29, 9, 15, 8, 6, 7, 22, 5, 4, 3, 1, 2, 30, 13, 11, 26, 16, 19, 0], Distance=284.22, RemCap=148.0

Vehicle 1: Route=[0, 21, 20, 14, 24, 0], Distance=117.85, RemCap=383.0

Vehicle 2: Route=[0, 18, 25, 17, 0], Distance=132.19, RemCap=451.0

Vehicle 3: Route=[0, 28, 27, 0], Distance=161.14, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9075.29

--------------------------------------------------

Ep 12/50 | Reward 2674.46 | Loss 99033988.80 | Dist 718.60 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 22, 21, 8, 25, 15, 9, 28, 29, 10, 18, 11, 16, 1, 3, 4, 5, 2, 24, 0], Distance=276.05, RemCap=113.0

Vehicle 1: Route=[0, 12, 20, 27, 0], Distance=122.83, RemCap=458.0

Vehicle 2: Route=[0, 14, 30, 17, 19, 0], Distance=194.97, RemCap=431.0

Vehicle 3: Route=[0, 23, 13, 26, 0], Distance=124.74, RemCap=440.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9216.24

--------------------------------------------------

Ep 13/50 | Reward 2765.67 | Loss 109193133.10 | Dist 666.93 | Vehl 4

Vehicle 0: Route=[0, 11, 16, 26, 18, 10, 9, 15, 8, 27, 22, 7, 6, 20, 2, 1, 3, 4, 24, 5, 14, 0], Distance=292.32, RemCap=97.0

Vehicle 1: Route=[0, 23, 29, 28, 19, 0], Distance=137.08, RemCap=440.0

Vehicle 2: Route=[0, 30, 17, 25, 21, 0], Distance=153.73, RemCap=428.0

Vehicle 3: Route=[0, 12, 13, 0], Distance=83.81, RemCap=477.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9415.67

--------------------------------------------------

Ep 14/50 | Reward 2782.11 | Loss 108202313.16 | Dist 685.73 | Vehl 4

Vehicle 0: Route=[0, 30, 19, 11, 18, 10, 29, 9, 23, 15, 12, 8, 27, 22, 7, 6, 14, 5, 2, 1, 3, 4, 24, 0], Distance=289.21, RemCap=124.0

Vehicle 1: Route=[0, 20, 28, 25, 0], Distance=155.03, RemCap=436.0

Vehicle 2: Route=[0, 21, 16, 13, 0], Distance=121.34, RemCap=422.0

Vehicle 3: Route=[0, 26, 17, 0], Distance=120.15, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8676.98

--------------------------------------------------

Ep 15/50 | Reward 2827.39 | Loss 118341304.26 | Dist 645.87 | Vehl 4

Vehicle 0: Route=[0, 30, 13, 11, 16, 1, 3, 4, 24, 2, 5, 14, 20, 6, 7, 22, 21, 8, 12, 10, 9, 25, 0], Distance=312.04, RemCap=86.0

Vehicle 1: Route=[0, 27, 15, 28, 23, 0], Distance=168.57, RemCap=440.0

Vehicle 2: Route=[0, 18, 29, 17, 0], Distance=95.35, RemCap=466.0

Vehicle 3: Route=[0, 26, 19, 0], Distance=69.90, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8076.25

--------------------------------------------------

Ep 16/50 | Reward 2826.88 | Loss 115937587.53 | Dist 589.48 | Vehl 4

Vehicle 0: Route=[0, 13, 18, 10, 29, 28, 9, 23, 17, 15, 12, 8, 27, 22, 7, 6, 5, 2, 1, 3, 4, 24, 0], Distance=273.42, RemCap=143.0

Vehicle 1: Route=[0, 26, 11, 30, 20, 21, 25, 0], Distance=182.44, RemCap=379.0

Vehicle 2: Route=[0, 19, 16, 0], Distance=69.49, RemCap=450.0

Vehicle 3: Route=[0, 14, 0], Distance=64.12, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9583.40

--------------------------------------------------

Ep 17/50 | Reward 2973.64 | Loss 123831180.68 | Dist 686.61 | Vehl 4

Vehicle 0: Route=[0, 12, 17, 23, 10, 29, 28, 9, 15, 8, 6, 27, 22, 7, 5, 4, 3, 1, 2, 20, 30, 11, 19, 0], Distance=302.54, RemCap=159.0

Vehicle 1: Route=[0, 21, 14, 13, 26, 0], Distance=145.64, RemCap=392.0

Vehicle 2: Route=[0, 25, 16, 0], Distance=144.25, RemCap=445.0

Vehicle 3: Route=[0, 18, 24, 0], Distance=94.19, RemCap=446.0

Total vehicle waiting time = 222.47

Total customer waiting time = 9791.68

--------------------------------------------------

Ep 18/50 | Reward 2684.20 | Loss 99819395.60 | Dist 681.24 | Vehl 4

Vehicle 0: Route=[0, 6, 27, 7, 5, 2, 4, 3, 1, 19, 16, 11, 26, 10, 29, 9, 23, 12, 8, 21, 0], Distance=278.68, RemCap=149.0

Vehicle 1: Route=[0, 14, 22, 25, 28, 18, 13, 0], Distance=222.69, RemCap=381.0

Vehicle 2: Route=[0, 15, 17, 20, 24, 0], Distance=153.52, RemCap=421.0

Vehicle 3: Route=[0, 30, 0], Distance=26.35, RemCap=491.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10181.54

--------------------------------------------------

Ep 19/50 | Reward 2849.59 | Loss 115899311.67 | Dist 772.98 | Vehl 4

Vehicle 0: Route=[0, 8, 25, 9, 10, 12, 18, 11, 16, 1, 3, 4, 5, 22, 27, 7, 6, 2, 24, 0], Distance=304.59, RemCap=158.0

Vehicle 1: Route=[0, 15, 28, 30, 13, 19, 0], Distance=157.38, RemCap=421.0

Vehicle 2: Route=[0, 20, 14, 23, 17, 0], Distance=150.78, RemCap=431.0

Vehicle 3: Route=[0, 26, 29, 21, 0], Distance=160.23, RemCap=432.0

Total vehicle waiting time = 66.49

Total customer waiting time = 8148.58

--------------------------------------------------

Ep 20/50 | Reward 2880.92 | Loss 118509633.91 | Dist 704.29 | Vehl 4

Vehicle 0: Route=[0, 12, 10, 9, 17, 15, 8, 6, 7, 22, 14, 5, 4, 3, 1, 24, 2, 30, 19, 16, 11, 13, 0], Distance=281.36, RemCap=118.0

Vehicle 1: Route=[0, 27, 26, 28, 29, 18, 0], Distance=194.44, RemCap=406.0

Vehicle 2: Route=[0, 23, 20, 0], Distance=116.45, RemCap=471.0

Vehicle 3: Route=[0, 25, 21, 0], Distance=112.04, RemCap=447.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8719.83

--------------------------------------------------

Ep 21/50 | Reward 3186.02 | Loss 153194782.14 | Dist 655.34 | Vehl 4

Vehicle 0: Route=[0, 20, 6, 7, 22, 8, 25, 23, 9, 28, 29, 10, 30, 11, 26, 16, 19, 1, 3, 4, 5, 2, 24, 0], Distance=299.15, RemCap=77.0

Vehicle 1: Route=[0, 27, 14, 18, 12, 17, 0], Distance=186.60, RemCap=423.0

Vehicle 2: Route=[0, 15, 13, 0], Distance=115.92, RemCap=470.0

Vehicle 3: Route=[0, 21, 0], Distance=53.67, RemCap=472.0

Total vehicle waiting time = 75.41

Total customer waiting time = 6406.66

--------------------------------------------------

Ep 22/50 | Reward 2957.41 | Loss 125971212.63 | Dist 656.55 | Vehl 4

Vehicle 0: Route=[0, 12, 10, 9, 15, 8, 21, 6, 7, 14, 5, 24, 4, 3, 1, 2, 20, 30, 26, 11, 19, 0], Distance=288.97, RemCap=111.0

Vehicle 1: Route=[0, 13, 16, 28, 23, 17, 0], Distance=135.60, RemCap=410.0

Vehicle 2: Route=[0, 27, 22, 18, 0], Distance=113.25, RemCap=456.0

Vehicle 3: Route=[0, 29, 25, 0], Distance=118.74, RemCap=465.0

Total vehicle waiting time = 218.84

Total customer waiting time = 9369.72

--------------------------------------------------

Ep 23/50 | Reward 2718.39 | Loss 94120635.04 | Dist 702.27 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 27, 22, 14, 5, 2, 4, 3, 1, 30, 13, 11, 16, 10, 29, 9, 23, 15, 8, 25, 0], Distance=306.49, RemCap=126.0

Vehicle 1: Route=[0, 26, 28, 12, 0], Distance=126.80, RemCap=447.0

Vehicle 2: Route=[0, 21, 24, 19, 17, 0], Distance=198.56, RemCap=402.0

Vehicle 3: Route=[0, 18, 20, 0], Distance=70.41, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8431.61

--------------------------------------------------

Ep 24/50 | Reward 2612.76 | Loss 84102170.86 | Dist 790.61 | Vehl 4

Vehicle 0: Route=[0, 30, 1, 3, 4, 2, 5, 14, 20, 6, 7, 8, 25, 15, 23, 9, 29, 10, 13, 19, 16, 0], Distance=297.18, RemCap=127.0

Vehicle 1: Route=[0, 11, 18, 12, 21, 22, 0], Distance=161.29, RemCap=435.0

Vehicle 2: Route=[0, 27, 26, 28, 0], Distance=189.86, RemCap=430.0

Vehicle 3: Route=[0, 17, 24, 0], Distance=142.28, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9110.28

--------------------------------------------------

Ep 25/50 | Reward 2753.04 | Loss 96746943.61 | Dist 705.50 | Vehl 4

Vehicle 0: Route=[0, 8, 21, 6, 7, 22, 14, 5, 4, 3, 1, 2, 30, 16, 26, 18, 17, 9, 28, 10, 29, 0], Distance=293.40, RemCap=119.0

Vehicle 1: Route=[0, 11, 24, 27, 25, 15, 0], Distance=228.96, RemCap=395.0

Vehicle 2: Route=[0, 23, 12, 20, 0], Distance=117.03, RemCap=468.0

Vehicle 3: Route=[0, 19, 13, 0], Distance=66.10, RemCap=460.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9589.61

--------------------------------------------------

Ep 26/50 | Reward 2965.29 | Loss 125714377.10 | Dist 551.04 | Vehl 4

Vehicle 0: Route=[0, 20, 2, 1, 3, 4, 5, 14, 22, 27, 7, 6, 21, 8, 15, 23, 9, 28, 10, 30, 13, 11, 26, 16, 19, 0], Distance=301.80, RemCap=44.0

Vehicle 1: Route=[0, 18, 25, 29, 17, 0], Distance=141.87, RemCap=441.0

Vehicle 2: Route=[0], Distance=0.00, RemCap=500

Vehicle 3: Route=[0, 24, 12, 0], Distance=107.37, RemCap=457.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7919.01

--------------------------------------------------

Ep 27/50 | Reward 2784.26 | Loss 106541649.74 | Dist 694.35 | Vehl 4

Vehicle 0: Route=[0, 12, 10, 28, 9, 17, 15, 25, 8, 27, 7, 6, 20, 30, 13, 11, 16, 1, 3, 4, 24, 2, 5, 14, 0], Distance=309.55, RemCap=64.0

Vehicle 1: Route=[0, 21, 23, 26, 18, 0], Distance=172.08, RemCap=418.0

Vehicle 2: Route=[0, 19, 0], Distance=63.46, RemCap=480.0

Vehicle 3: Route=[0, 22, 29, 0], Distance=149.25, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8136.68

--------------------------------------------------

Ep 28/50 | Reward 2808.24 | Loss 107995991.72 | Dist 674.24 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 27, 22, 14, 5, 4, 3, 1, 2, 20, 13, 16, 26, 18, 12, 10, 29, 9, 15, 8, 25, 0], Distance=330.90, RemCap=89.0

Vehicle 1: Route=[0, 21, 24, 11, 28, 23, 0], Distance=204.85, RemCap=392.0

Vehicle 2: Route=[0, 17, 30, 19, 0], Distance=138.49, RemCap=461.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 8436.69

--------------------------------------------------

Ep 29/50 | Reward 2626.60 | Loss 90138636.04 | Dist 675.29 | Vehl 4

Vehicle 0: Route=[0, 13, 26, 10, 29, 28, 9, 17, 15, 8, 21, 6, 7, 22, 14, 5, 2, 1, 3, 4, 24, 0], Distance=266.35, RemCap=102.0

Vehicle 1: Route=[0, 27, 20, 16, 11, 18, 25, 0], Distance=207.70, RemCap=382.0

Vehicle 2: Route=[0, 30, 23, 0], Distance=102.71, RemCap=481.0

Vehicle 3: Route=[0, 12, 19, 0], Distance=98.52, RemCap=477.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10100.32

--------------------------------------------------

Ep 30/50 | Reward 2672.09 | Loss 97335928.55 | Dist 796.06 | Vehl 4

Vehicle 0: Route=[0, 30, 16, 26, 18, 10, 9, 23, 15, 12, 8, 21, 7, 6, 20, 2, 1, 3, 4, 5, 14, 0], Distance=296.00, RemCap=127.0

Vehicle 1: Route=[0, 22, 19, 11, 13, 28, 0], Distance=190.57, RemCap=420.0

Vehicle 2: Route=[0, 27, 25, 17, 0], Distance=166.60, RemCap=445.0

Vehicle 3: Route=[0, 29, 24, 0], Distance=142.89, RemCap=450.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9761.15

--------------------------------------------------

Ep 31/50 | Reward 3104.17 | Loss 134946206.69 | Dist 547.11 | Vehl 4

Vehicle 0: Route=[0, 19, 16, 11, 13, 18, 10, 29, 28, 9, 17, 15, 12, 8, 21, 27, 22, 7, 6, 14, 5, 2, 1, 3, 4, 24, 0], Distance=295.48, RemCap=35.0

Vehicle 1: Route=[0, 20, 30, 25, 0], Distance=130.34, RemCap=447.0

Vehicle 2: Route=[0, 26, 23, 0], Distance=121.30, RemCap=460.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 2.77

Total customer waiting time = 7557.66

--------------------------------------------------

Ep 32/50 | Reward 2604.39 | Loss 88721744.18 | Dist 661.74 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 27, 22, 14, 5, 2, 4, 3, 1, 16, 11, 26, 12, 8, 15, 9, 10, 17, 23, 0], Distance=298.39, RemCap=147.0

Vehicle 1: Route=[0, 29, 28, 18, 13, 24, 0], Distance=157.36, RemCap=396.0

Vehicle 2: Route=[0, 19, 20, 21, 25, 0], Distance=179.64, RemCap=408.0

Vehicle 3: Route=[0, 30, 0], Distance=26.35, RemCap=491.0

Total vehicle waiting time = 0.00

Total customer waiting time = 10755.44

--------------------------------------------------

Ep 33/50 | Reward 2607.81 | Loss 83999575.97 | Dist 699.72 | Vehl 4

Vehicle 0: Route=[0, 20, 2, 5, 24, 4, 3, 1, 30, 11, 10, 29, 28, 9, 23, 15, 8, 21, 6, 7, 27, 0], Distance=282.10, RemCap=134.0

Vehicle 1: Route=[0, 14, 22, 17, 13, 16, 0], Distance=210.14, RemCap=400.0

Vehicle 2: Route=[0, 19, 26, 25, 0], Distance=145.27, RemCap=425.0

Vehicle 3: Route=[0, 12, 18, 0], Distance=62.21, RemCap=483.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9230.68

--------------------------------------------------

Ep 34/50 | Reward 2595.37 | Loss 81387708.56 | Dist 760.81 | Vehl 4

Vehicle 0: Route=[0, 11, 26, 18, 12, 10, 28, 9, 15, 8, 22, 7, 6, 20, 2, 1, 3, 4, 5, 14, 0], Distance=295.05, RemCap=164.0

Vehicle 1: Route=[0, 17, 29, 30, 24, 16, 0], Distance=183.97, RemCap=401.0

Vehicle 2: Route=[0, 27, 19, 13, 0], Distance=127.95, RemCap=440.0

Vehicle 3: Route=[0, 21, 23, 25, 0], Distance=153.83, RemCap=437.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9529.71

--------------------------------------------------

Ep 35/50 | Reward 2821.07 | Loss 104674188.70 | Dist 533.44 | Vehl 4

Vehicle 0: Route=[0, 30, 13, 11, 26, 12, 10, 28, 9, 25, 8, 21, 6, 7, 14, 5, 2, 1, 3, 4, 24, 0], Distance=280.60, RemCap=95.0

Vehicle 1: Route=[0, 15, 17, 23, 29, 16, 19, 0], Distance=137.20, RemCap=410.0

Vehicle 2: Route=[0, 27, 22, 20, 18, 0], Distance=115.65, RemCap=437.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 4.58

Total customer waiting time = 8520.97

--------------------------------------------------

Ep 36/50 | Reward 2654.51 | Loss 83578471.07 | Dist 762.05 | Vehl 4

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 5, 14, 20, 6, 7, 22, 8, 12, 15, 17, 23, 9, 29, 10, 13, 0], Distance=288.31, RemCap=179.0

Vehicle 1: Route=[0, 26, 11, 21, 25, 0], Distance=174.74, RemCap=407.0

Vehicle 2: Route=[0, 27, 28, 18, 19, 0], Distance=201.77, RemCap=426.0

Vehicle 3: Route=[0, 24, 16, 0], Distance=97.23, RemCap=430.0

Total vehicle waiting time = 8.45

Total customer waiting time = 11421.90

--------------------------------------------------

Ep 37/50 | Reward 2828.96 | Loss 113908998.26 | Dist 640.43 | Vehl 4

Vehicle 0: Route=[0, 20, 6, 7, 22, 8, 12, 15, 23, 9, 29, 10, 26, 11, 16, 19, 2, 1, 3, 4, 24, 5, 14, 0], Distance=299.02, RemCap=88.0

Vehicle 1: Route=[0, 30, 21, 25, 28, 17, 0], Distance=178.86, RemCap=408.0

Vehicle 2: Route=[0, 27, 18, 0], Distance=111.20, RemCap=466.0

Vehicle 3: Route=[0, 13, 0], Distance=51.34, RemCap=480.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9280.53

--------------------------------------------------

Ep 38/50 | Reward 3034.51 | Loss 130051240.64 | Dist 765.90 | Vehl 4

Vehicle 0: Route=[0, 18, 16, 1, 3, 4, 2, 5, 14, 6, 7, 27, 21, 8, 25, 12, 15, 9, 10, 17, 0], Distance=305.27, RemCap=140.0

Vehicle 1: Route=[0, 20, 22, 29, 11, 19, 24, 0], Distance=220.48, RemCap=391.0

Vehicle 2: Route=[0, 30, 26, 28, 0], Distance=126.08, RemCap=441.0

Vehicle 3: Route=[0, 23, 13, 0], Distance=114.07, RemCap=470.0

Total vehicle waiting time = 139.64

Total customer waiting time = 8231.86

--------------------------------------------------

Ep 39/50 | Reward 2978.42 | Loss 132480989.45 | Dist 732.29 | Vehl 4

Vehicle 0: Route=[0, 30, 19, 11, 18, 10, 29, 9, 15, 12, 8, 21, 22, 7, 6, 20, 2, 24, 1, 3, 4, 5, 14, 0], Distance=300.26, RemCap=107.0

Vehicle 1: Route=[0, 26, 17, 25, 0], Distance=148.00, RemCap=435.0

Vehicle 2: Route=[0, 13, 16, 28, 0], Distance=132.54, RemCap=430.0

Vehicle 3: Route=[0, 23, 27, 0], Distance=151.50, RemCap=470.0

Total vehicle waiting time = 0.00

Total customer waiting time = 7983.84

--------------------------------------------------

Ep 40/50 | Reward 2792.12 | Loss 109074552.41 | Dist 586.00 | Vehl 4

Vehicle 0: Route=[0, 30, 2, 1, 3, 4, 5, 7, 6, 21, 8, 25, 15, 9, 28, 29, 10, 17, 12, 18, 26, 16, 11, 13, 0], Distance=291.84, RemCap=91.0

Vehicle 1: Route=[0, 23, 24, 20, 0], Distance=147.21, RemCap=431.0

Vehicle 2: Route=[0, 19, 27, 22, 14, 0], Distance=146.95, RemCap=420.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 0.00

Total customer waiting time = 8848.76

--------------------------------------------------

Ep 41/50 | Reward 2950.94 | Loss 121348663.35 | Dist 675.83 | Vehl 4

Vehicle 0: Route=[0, 19, 11, 18, 10, 9, 23, 15, 25, 8, 6, 7, 14, 5, 2, 1, 3, 4, 24, 0], Distance=273.84, RemCap=151.0

Vehicle 1: Route=[0, 16, 17, 21, 27, 22, 20, 0], Distance=202.57, RemCap=383.0

Vehicle 2: Route=[0, 29, 28, 0], Distance=95.18, RemCap=470.0

Vehicle 3: Route=[0, 12, 30, 26, 13, 0], Distance=104.24, RemCap=438.0

Total vehicle waiting time = 199.50

Total customer waiting time = 8856.45

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Ep 42/50 | Reward 2895.18 | Loss 119417182.00 | Dist 730.21 | Vehl 4

Vehicle 0: Route=[0, 6, 27, 22, 7, 5, 2, 4, 3, 1, 19, 30, 18, 10, 29, 28, 9, 23, 12, 8, 21, 0], Distance=291.58, RemCap=166.0

Vehicle 1: Route=[0, 20, 11, 15, 25, 0], Distance=166.57, RemCap=436.0

Vehicle 2: Route=[0, 14, 13, 16, 0], Distance=117.87, RemCap=420.0

Vehicle 3: Route=[0, 17, 26, 24, 0], Distance=154.20, RemCap=420.0

Total vehicle waiting time = 0.13

Total customer waiting time = 8151.65

--------------------------------------------------

Ep 43/50 | Reward 2718.29 | Loss 93980973.73 | Dist 728.31 | Vehl 4

Vehicle 0: Route=[0, 10, 28, 9, 15, 8, 21, 27, 22, 7, 6, 20, 2, 5, 4, 3, 1, 13, 16, 11, 0], Distance=278.35, RemCap=143.0

Vehicle 1: Route=[0, 12, 17, 29, 18, 24, 19, 0], Distance=178.73, RemCap=403.0

Vehicle 2: Route=[0, 14, 25, 0], Distance=148.87, RemCap=445.0

Vehicle 3: Route=[0, 30, 26, 23, 0], Distance=122.37, RemCap=451.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9313.18

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Ep 44/50 | Reward 2994.18 | Loss 125998252.47 | Dist 595.35 | Vehl 4

Vehicle 0: Route=[0, 12, 10, 29, 28, 9, 23, 15, 25, 8, 7, 6, 20, 2, 5, 4, 3, 1, 19, 16, 26, 13, 0], Distance=271.29, RemCap=113.0

Vehicle 1: Route=[0, 17, 18, 11, 27, 14, 24, 0], Distance=220.93, RemCap=376.0

Vehicle 2: Route=[0, 30, 22, 21, 0], Distance=103.13, RemCap=453.0

Vehicle 3: Route=[0], Distance=0.00, RemCap=500

Total vehicle waiting time = 36.08

Total customer waiting time = 8020.45

--------------------------------------------------

Ep 45/50 | Reward 2903.25 | Loss 115050287.58 | Dist 588.08 | Vehl 4

Vehicle 0: Route=[0, 12, 10, 28, 9, 23, 17, 15, 25, 8, 21, 6, 7, 22, 5, 24, 4, 3, 1, 2, 13, 11, 16, 0], Distance=279.93, RemCap=94.0

Vehicle 1: Route=[0, 30, 19, 20, 27, 14, 0], Distance=146.99, RemCap=402.0

Vehicle 2: Route=[0, 26, 29, 0], Distance=118.67, RemCap=460.0

Vehicle 3: Route=[0, 18, 0], Distance=42.49, RemCap=486.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8614.09

--------------------------------------------------

Ep 46/50 | Reward 3054.91 | Loss 136091105.13 | Dist 683.20 | Vehl 4

Vehicle 0: Route=[0, 18, 13, 16, 1, 3, 4, 24, 5, 2, 20, 6, 7, 22, 27, 8, 25, 9, 29, 10, 17, 0], Distance=290.01, RemCap=112.0

Vehicle 1: Route=[0, 19, 28, 23, 15, 21, 0], Distance=177.29, RemCap=412.0

Vehicle 2: Route=[0, 12, 11, 14, 30, 0], Distance=153.90, RemCap=448.0

Vehicle 3: Route=[0, 26, 0], Distance=62.00, RemCap=470.0

Total vehicle waiting time = 20.77

Total customer waiting time = 7430.45

--------------------------------------------------

Ep 47/50 | Reward 2664.73 | Loss 93656125.99 | Dist 693.71 | Vehl 4

Vehicle 0: Route=[0, 6, 7, 27, 14, 5, 4, 3, 1, 2, 30, 13, 11, 18, 10, 29, 28, 9, 17, 8, 25, 0], Distance=303.89, RemCap=142.0

Vehicle 1: Route=[0, 12, 23, 21, 20, 24, 0], Distance=177.09, RemCap=400.0

Vehicle 2: Route=[0, 26, 16, 19, 22, 0], Distance=126.93, RemCap=410.0

Vehicle 3: Route=[0, 15, 0], Distance=85.80, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9850.48

--------------------------------------------------

Ep 48/50 | Reward 2658.63 | Loss 94521977.41 | Dist 749.90 | Vehl 4

Vehicle 0: Route=[0, 8, 21, 22, 7, 6, 20, 14, 5, 2, 4, 3, 1, 19, 11, 18, 10, 28, 9, 17, 25, 0], Distance=315.45, RemCap=124.0

Vehicle 1: Route=[0, 30, 13, 23, 15, 0], Distance=119.67, RemCap=451.0

Vehicle 2: Route=[0, 29, 16, 27, 24, 0], Distance=221.91, RemCap=400.0

Vehicle 3: Route=[0, 12, 26, 0], Distance=92.88, RemCap=467.0

Total vehicle waiting time = 0.00

Total customer waiting time = 9793.96

--------------------------------------------------

Ep 49/50 | Reward 2866.55 | Loss 114323723.46 | Dist 625.20 | Vehl 4

Vehicle 0: Route=[0, 2, 1, 3, 4, 5, 14, 22, 7, 6, 21, 8, 12, 17, 23, 9, 28, 29, 10, 18, 26, 16, 13, 0], Distance=277.83, RemCap=95.0

Vehicle 1: Route=[0, 27, 25, 15, 19, 0], Distance=207.41, RemCap=425.0

Vehicle 2: Route=[0, 11, 24, 0], Distance=93.43, RemCap=450.0

Vehicle 3: Route=[0, 20, 30, 0], Distance=46.53, RemCap=472.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8408.56

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Ep 50/50 | Reward 2925.75 | Loss 124642228.90 | Dist 744.64 | Vehl 4

Vehicle 0: Route=[0, 30, 18, 13, 11, 16, 19, 1, 3, 4, 5, 2, 20, 6, 7, 21, 8, 12, 10, 28, 9, 23, 17, 0], Distance=295.88, RemCap=117.0

Vehicle 1: Route=[0, 25, 27, 22, 24, 0], Distance=174.06, RemCap=405.0

Vehicle 2: Route=[0, 14, 15, 26, 0], Distance=187.69, RemCap=430.0

Vehicle 3: Route=[0, 29, 0], Distance=87.00, RemCap=490.0

Total vehicle waiting time = 0.00

Total customer waiting time = 8685.91

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Saved results to F:/KLTN/code/output30\h30d20\_results.docx

[Done] exited with code=0 in 6746.617 seconds