

Display all images in the directory

Found 43 images in the directory.

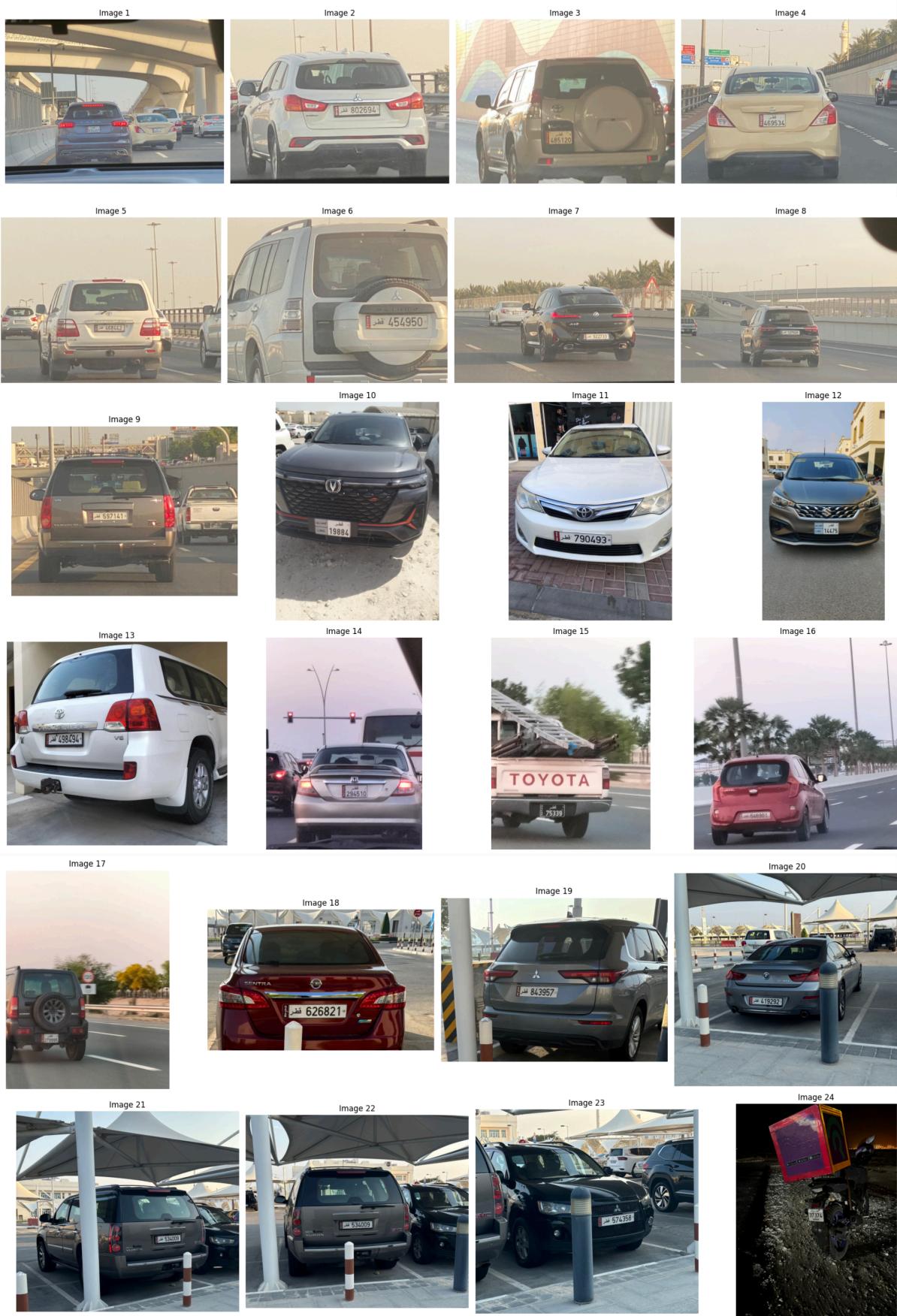


Image 25



Image 26



Image 27



Image 28



Image 29



Image 30



Image 31



Image 32



Image 33



Image 34



Image 35



Image 36



Image 37



Image 38



Image 39



Image 40



Image 41



Image 42

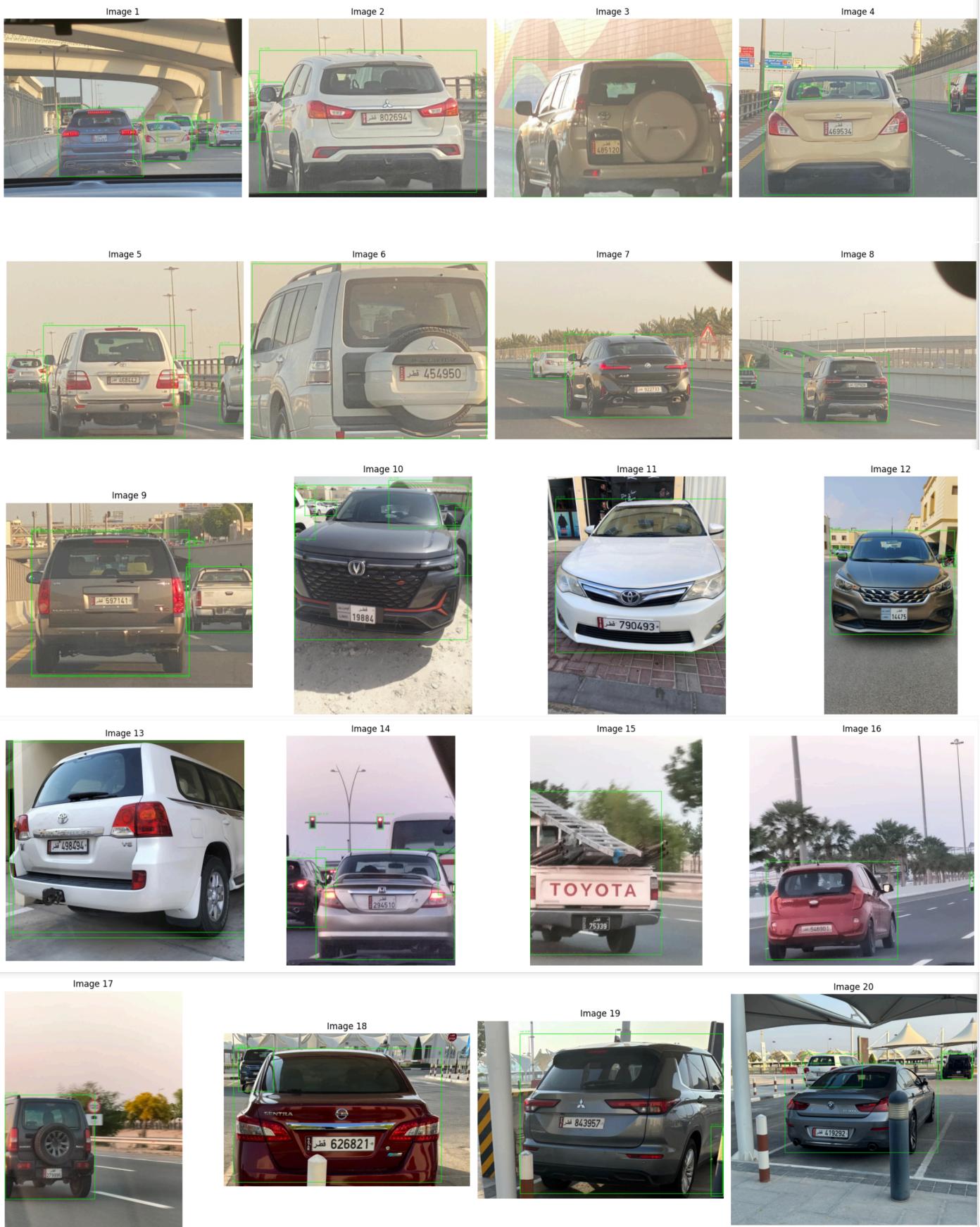


Image 43



Detect and Annotate Objects in Images Using Yolov5 (YOLOv5m.pt)

Found 43 images in the directory.



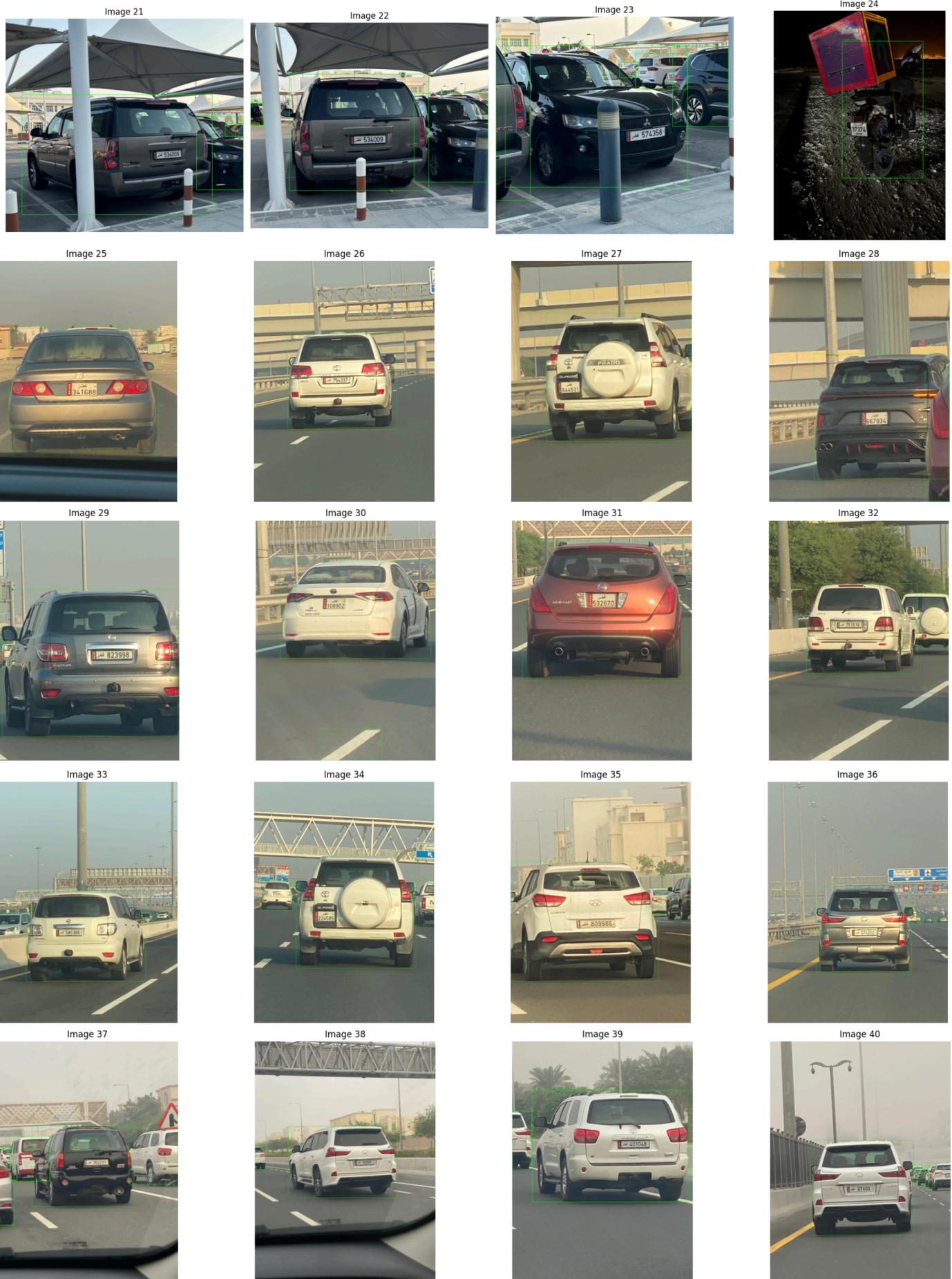


Image 41



Image 42



Image 43



EasyOCR to Detect Text on License Plates

```
Image: cropped_1.jpeg - Detected Plate Number (Raw): 934457
Image: cropped_2.jpeg - Detected Plate Number (Raw): 802694
Image: cropped_3.jpeg - Detected Plate Number (Raw): 485120
Image: cropped_4.jpeg - Detected Plate Number (Raw): 469534
Image: cropped_5.jpeg - Detected Plate Number (Preprocessed): 468442
Image: cropped_6.jpeg - Detected Plate Number (Preprocessed): 454950
Image: cropped_7.jpeg - Detected Plate Number (Raw): 922733
Image: cropped_8.jpeg - Detected Plate Number (Raw): 127928
Image: cropped_9.jpeg - Detected Plate Number (Raw): 597141
Image: cropped_10.jpeg - Detected Plate Number (Raw): 19884
Image: cropped_11.jpeg - Detected Plate Number (Raw): 790493
Image: cropped_12.jpeg - Detected Plate Number (Raw): 14475
Image: cropped_13.jpeg - Detected Plate Number (Raw): 498494
Image: cropped_14.jpeg - Detected Plate Number (Raw): 294510
Image: cropped_15.jpeg - Detected Plate Number (Raw): 75339
Image: cropped_16.jpeg - Detected Plate Number (Raw): 546901
```

Supervised Learning

```
Image cropped_1.jpeg: Success! EasyOCR result matches the ground truth: 934457
Image cropped_2.jpeg: Success! EasyOCR result matches the ground truth: 802694
Image cropped_3.jpeg: Success! EasyOCR result matches the ground truth: 485120
Image cropped_4.jpeg: Success! EasyOCR result matches the ground truth: 469534
Image cropped_5.jpeg: Success! EasyOCR result matches the ground truth: 468442
Image cropped_6.jpeg: Success! EasyOCR result matches the ground truth: 454950
Image cropped_7.jpeg: Success! EasyOCR result matches the ground truth: 922733
Image cropped_8.jpeg: Success! EasyOCR result matches the ground truth: 127928
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Image cropped_12.jpeg: Success! EasyOCR result matches the ground truth: 14475
Image cropped_13.jpeg: Success! EasyOCR result matches the ground truth: 498494
Image cropped_14.jpeg: Success! EasyOCR result matches the ground truth: 294510
Image cropped_15.jpeg: Success! EasyOCR result matches the ground truth: 75339
Image cropped_16.jpeg: Success! EasyOCR result matches the ground truth: 546901
Image cropped_17.jpeg: Success! EasyOCR result matches the ground truth: 279995
Image cropped_18.jpeg: Success! EasyOCR result matches the ground truth: 626821
Image cropped_19.jpeg: Success! EasyOCR result matches the ground truth: 843957
Image cropped_20.jpeg: Failed! Incorrect plate number. Detected: 6401, Correct: 419292
Image cropped_21.jpeg: Success! EasyOCR result matches the ground truth: 534009
Image cropped_22.jpeg: Success! EasyOCR result matches the ground truth: 534009
Image cropped_23.jpeg: Success! EasyOCR result matches the ground truth: 574358
Image cropped_24.jpeg: Success! EasyOCR result matches the ground truth: 37374
Image cropped_25.jpeg: Error! The plate number wasn't detected; the correct plate number is: 341688
Image cropped_26.jpeg: Success! EasyOCR result matches the ground truth: 754337
Image cropped_27.jpeg: Success! EasyOCR result matches the ground truth: 644531
Image cropped_28.jpeg: Success! EasyOCR result matches the ground truth: 667934
Image cropped_29.jpeg: Success! EasyOCR result matches the ground truth: 823998
Image cropped_30.jpeg: Success! EasyOCR result matches the ground truth: 108902
Image cropped_31.jpeg: Success! EasyOCR result matches the ground truth: 532670
Image cropped_32.jpeg: Success! EasyOCR result matches the ground truth: 751616
Image cropped_33.jpeg: Success! EasyOCR result matches the ground truth: 585388
Image cropped_34.jpeg: Success! EasyOCR result matches the ground truth: 224585
Image cropped_35.jpeg: Error! The plate number wasn't detected; the correct plate number is: 809986
Image cropped_36.jpeg: There is a mistake in digit(s) 3. The correct plate number is: 674202
Image cropped_37.jpeg: Success! EasyOCR result matches the ground truth: 362231
Image cropped_38.jpeg: Success! EasyOCR result matches the ground truth: 50885
Image cropped_39.jpeg: Success! EasyOCR result matches the ground truth: 401048
Image cropped_40.jpeg: Success! EasyOCR result matches the ground truth: 67400
Image cropped_41.jpeg: Error! The plate number wasn't detected; the correct plate number is: 498839
Image cropped_42.jpeg: Success! EasyOCR result matches the ground truth: 644710
Image cropped_43.jpeg: Success! EasyOCR result matches the ground truth: 4323
```

Evaluation Matrix

Confusion Matrix:

True Positives (TP): 38
True Negatives (TN): 0
False Positives (FP): 2
False Negatives (FN): 3

Evaluation Metrics:

Accuracy: 0.8837
Precision: 0.9500
Recall: 0.9268
F1-Score: 0.9383