ZEBRA

Faster, more accurate vehicle inspections with the all-in-one Zebra Tread Intel™ Solution

The challenge: inefficient outdated and manual workflows

Tire service centers and fleet operators of consumer and commercial vehicles have one thing in common: workflows that need to capture accurate tire tread depth. Associates in tire service centers need to capture tread depth to determine if customer vehicles need new tires. Technicians who maintain fleets of rental vehicles or delivery trucks need to capture tread depth to determine when tires need to be replaced. And both workflows require the capture of a wealth of additional vehicle-related information, such as the Vehicle Identification Number (VIN) and Tire Identification Number (TIN).

Manually handwriting data on a paper form or keying data into a computer is slow and error-prone, compromising worker productivity, data accuracy — and potentially, driver safety. Manual tire depth gauges produce inconsistent results due to variations in technique — and errors are common when the tool is not used correctly. And while digital probes are an alternative, they require regular calibration.

Automate it all with the Zebra Tread Intel solution.

Get all the features you need to automate complete workflows with the Zebra Tread Intel solution

How it works

Start with Zebra's TC78 or TC58e[1] rugged mobile computers with the Zebra Tread Intel snap-on accessory. Add Zebra's Optical Character Recognition (OCR) software, and you have a powerful mobile solution that can easily automate and error-proof workflows that require tire tread depth readings and the capture of additional vehicle identification information. Instead of manually capturing needed data, now a few simple scans can accurately capture it all in seconds. And integration with your applications and workflows is fast and easy with Android Intents, eliminating the need for Software Development Kits (SDKs).

Zebra's Mobility DNA OCR Wedge software

Capture with the scanner and/or camera:
License plates
Tire Identification Number (TIN)
Vehicle Identification Number (VIN)
Driver's licenses
National ID and Resident cards

Zebra's Free-Form OCR software

Capture with the scanner and/or camera:
Capture and process any printed text from labels, documents and more

Enterprise-class dedicated Integrated scanner
Capture virtually any barcode

Advanced high-resolution Integrated camera
Capture any image

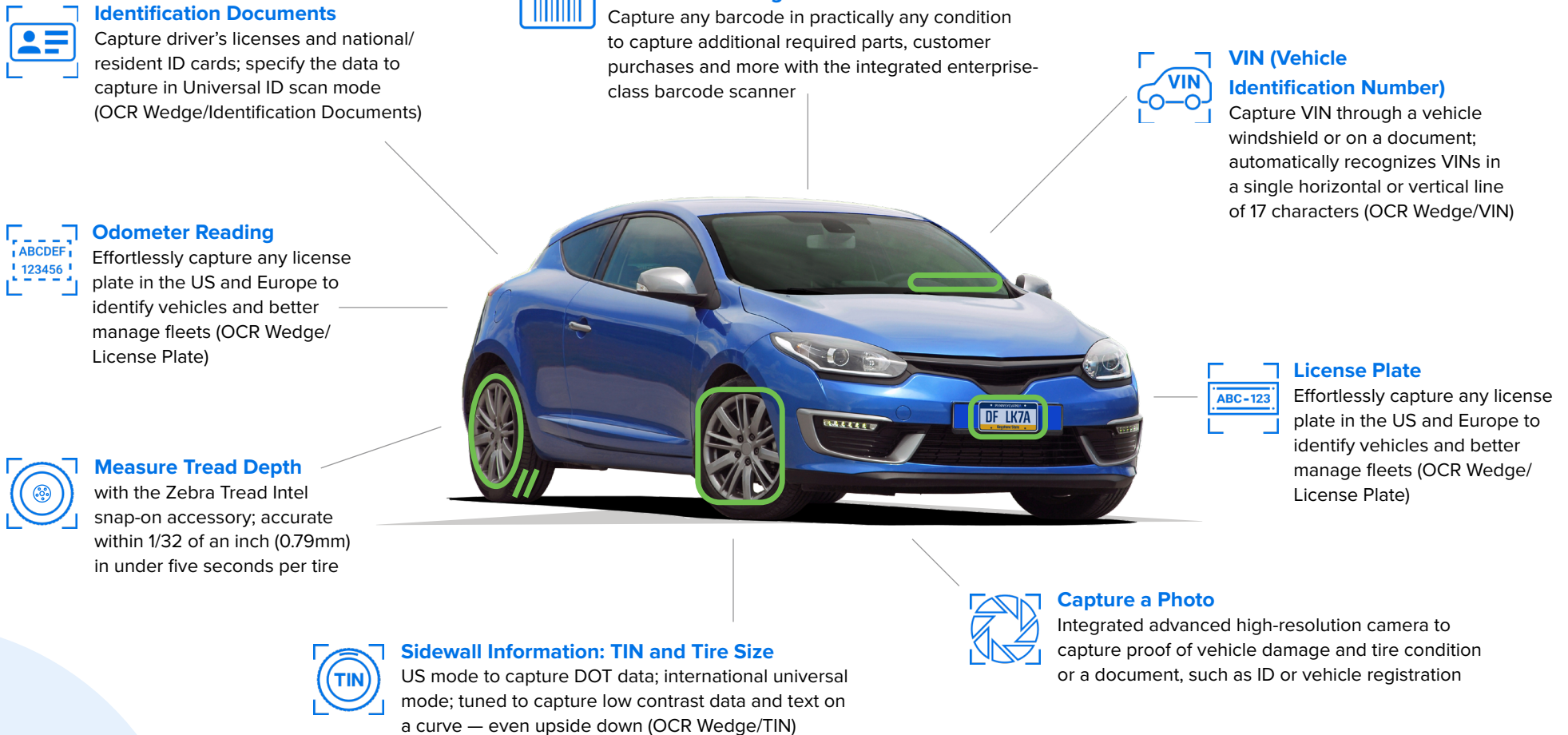**Zebra Tread Intel snap-on tire tread depth reader**
Highly accurate dual laser image sensor measures tread depth within 1/32 in. (0.79mm)

1. Rugged boot required for TC58e

Your workflows re-imagined with the Zebra Tread Intel solution

Capture a comprehensive view of every vehicle in seconds

With Zebra's optional OCR software, workers can capture TIN serial numbers, VINs, license plates, driver's licenses, customer identification cards and more with the press of a button. Data is properly formatted and sent to the right fields in your applications, streamlining operations, improving productivity and increasing data accuracy.

Identification Documents
Capture driver's licenses and national/resident ID cards; specify the data to capture in Universal ID scan mode (OCR Wedge/Identification Documents)

Barcode Scanning
Capture any barcode in practically any condition to capture additional required parts, customer purchases and more with the integrated enterprise-class barcode scanner

VIN (Vehicle Identification Number)
Capture VIN through a vehicle windshield or on a document; automatically recognizes VINs in a single horizontal or vertical line of 17 characters (OCR Wedge/VIN)

Odometer Reading
Effortlessly capture any license plate in the US and Europe to identify vehicles and better manage fleets (OCR Wedge/License Plate)

License Plate
Effortlessly capture any license plate in the US and Europe to identify vehicles and better manage fleets (OCR Wedge/License Plate)

Measure Tread Depth
with the Zebra Tread Intel snap-on accessory; accurate within 1/32 of an inch (0.79mm) in under five seconds per tire

Capture a Photo
Integrated advanced high-resolution camera to capture proof of vehicle damage and tire condition or a document, such as ID or vehicle registration

Sidewall Information: TIN and Tire Size
US mode to capture DOT data; international universal mode; tuned to capture low contrast data and text on a curve — even upside down (OCR Wedge/TIN)

Where will Zebra's Tread Intel solution improve operations in your Tire Service Center?
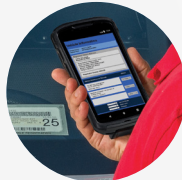
Supercharge the quality, speed, and precision of your tire service with the Zebra Tread Intel solution. A few quick scans automatically and accurately captures customer, vehicle and tire data — no more time-consuming, error-prone manual steps or long waits for a diagnosis. And the same solution can help manage tire and parts inventory, restocking, and more. Give your customers a full assessment of their vehicle, including tire condition and vehicle safety recalls with the Zebra Tread Intel solution.
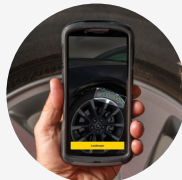
The Zebra Tread Intel Solution advantage

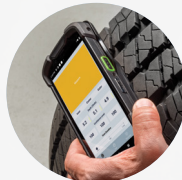**1** Customer pulls in to have tires and vehicle checked

2 Technician automatically captures license plate and VIN data with the press of a button

3 Technician automatically captures TIN marking on tires to instantly check for safety recalls and check tire age

4 Technician swipes each tire to precisely measure tread depth in less than 5 seconds per tire

5 Service member pulls up tire condition data in real time to recommend the best solution for the vehicle

6 Customer vehicle is pulled into the bay for the needed maintenance

7 The vehicle is ready, and the customer is back on the road!
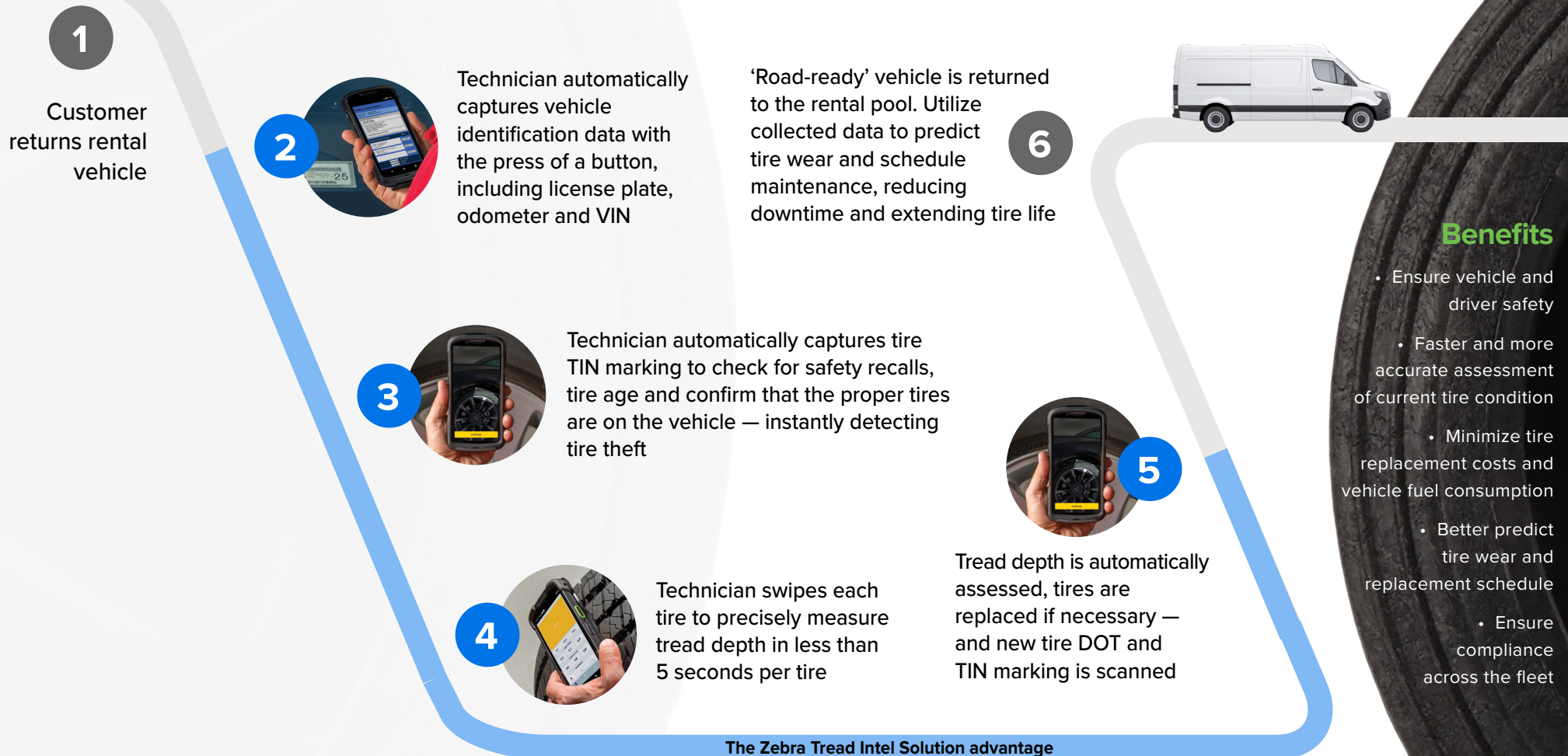
Benefits

- Improve the customer experience
- Reduce wait times
- Assess tire safety faster and more accurately than ever before
- Accurately collect customer and vehicle data
- Lower labor costs
- Ensure compliance

Where will Zebra's Tread Intel solution improve maintenance processes for your vehicle fleet?

With Zebra's Tread Intel solution, vehicles spend less time off of the road for maintenance and inspections and more time on the road serving customers and generating revenue. Technicians can automatically scan required information quickly, easily, and accurately — from current tire tread depth to vehicle and tire identification data to replacement parts, including data on newly installed tires. Time-consuming manual data entry is replaced with automated, accurate date capture. The result? Improved driver safety. Increased technician productivity. Reduced fuel consumption. And reduced tire replacement costs.

1 Customer returns rental vehicle

2 Technician automatically captures vehicle identification data with the press of a button, including license plate, odometer and VIN

3 Technician automatically captures tire TIN marking to check for safety recalls, tire age and confirm that the proper tires are on the vehicle — instantly detecting tire theft

4 Technician swipes each tire to precisely measure tread depth in less than 5 seconds per tire

5 Tread depth is automatically assessed, tires are replaced if necessary — and new tire DOT and TIN marking is scanned

6 'Road-ready' vehicle is returned to the rental pool. Utilize collected data to predict tire wear and schedule maintenance, reducing downtime and extending tire life

Benefits

- Ensure vehicle and driver safety
- Faster and more accurate assessment of current tire condition
- Minimize tire replacement costs and vehicle fuel consumption
- Better predict tire wear and replacement schedule
- Ensure compliance across the fleet

The Zebra Tread Intel Solution advantage

To learn more about the Zebra Tread Intel solution and the next generation Zebra Tread Intel snap-on tread depth reader accessory for select Zebra mobile computers, please visit www.zebra.com/zebra-tread-intel

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