# AI-Enabled Hub for All Your Fleet Technology

Bringing together data from various sources and making sense of it to provide actionable insights for smarter, automated fleet management.



# P

# ROI Impact Summary (past 180 days in Rosenberg)

How much time are we saving with vehicle health reports?

How much are we reducing the risk of costly return visits?

How efficient are we saving with smart workflow automations?

200

vehicle health reports were used by technicians

4,000

avg. mins saved for technicians

86%

reduction in repeat maintenance visits

\$287K

downtime savings (Rosenberg)

912

remote diagnostics vehicle checks with Pitstop as a central hub

**52** 

mins per day per person saved using Pitstop's automated workflows between Samsara and TMT

# Pitstop's Proprietary Al Solutions

2 patents pending



#### **Predictive Maintenance**

By analyzing historical maintenance records, sensor data, and usage patterns, Pitstop predicts vehicle failures with over 94% accuracy.

#### **Root Cause Detection**

Pitstop continuously monitors fault code data for anomalies that deviate from normal patterns, pin pointing the root cause of the issues. This is done by analyzing the subsystems impacted, trigger frequencies over time and OEM troubleshooting guides.

#### Generative Al

#### **ChatGPT Descriptions for faults**

This generative feature enables fleet managers & technicians to fill in the blanks with helpful insights for vague descriptions, quickly understanding and addressing issues with confidence.

#### Accurate reporting with work orders

Work orders are invoices created by technicians which can vary in format and detail depending on whos filling it out. This Al tool will scan any invoice (including written) digitize it, and most importantly fill out any empty fields. VMRS codes are a prime example.



#### P2149 - Fuel Injector Group 'B

Vehicle: WF69KRG Current Mileage: 87,238.0 mile





Mark as Complete

#### Details

#### Description

Fuel Injector Group 'B' Supply Voltage Circuit/Op

G Learn more

#### Explanation

The fault code P2149 indicates a Fuel Injector of Supply Voltage Circuit/Open issue. This fault corelated to the fuel injector circuit in a specific grinjectors. Possible vehicle components related to code could include faulty wiring, a malfunctionir injector, or a problem with the engine control maddress this issue, you may need to inspect the harness for any damage, check the fuel injector connections for proper functioning, and test the injector's resistance. Additionally, it is recomme verify the signals from the engine control modul pinpoint the exact cause of the open circuit and accordingly.

Powered by ChatGPT

#### Suggested Action

This issue could potentially be problematic. Ple communicate with the driver to inquire about th the vehicle

# Pitstop Findings





# PARKATAL BASES STATES OF THE S

#### **Overloaded with Tasks**

- Managing DVIRs
- Managing Shop Workload, Parts, Work Orders etc.
- Multitasking on Samsara, TMT, Teams, Telegram

#### **Manual Data Entry**

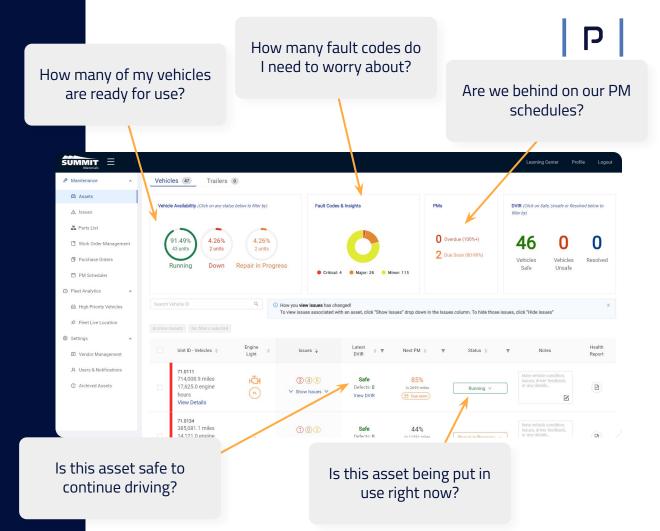
Workflows are on whiteboard/paper

- Managing PMs
- Inspection Checklist
- Sticky notes for DVIR Mechanics

#### **Repair Process**

Scan tool was only be plugged in when engine light was on. This was one of the main causes for repeated service visits.

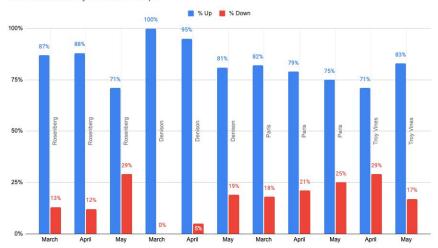
Have all Key Metrics in One Place



### Vehicle Availability Reporting

Users can easily mark vehicles as running or out of service on Pitstop. The list of vehicles that are out of service can then be automatically sent to the dispatch team.

#### Vehicle Availability for March & April



#### Vehicle Availability - Paris

#### RK Hall I Jun 23 2024, 9:00 PM CDT - Jun 24 2024, 9:00 PM CDT

Device Name	Attribute: Vehicle Availability	Tags
70.0015	Up	Paris, Asphalt Plants
70.0030	Up	Paris, Earthwave
70.0031	Up	Paris, Earthwave
70.0032	Up	Paris, Earthwave
70.0033	Up	Paris, Earthwave
70.0034	Up	Paris, Earthwave
70.0041	Up	Paris, Earthwave
70.0042	Up	Paris, Earthwave
70.0043	Up	Paris, Earthwave
70.0044	Up	Paris, Earthwave
71.0102	Down	Paris, Earthwave

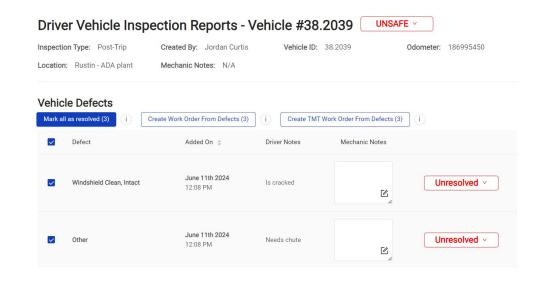


A Hub Between Samsara & TMT

Users can easily view DVIR/defects on Pitstop and create work orders directly from defects into TMT, eliminating manual effort. Once the mechanic closes the work order, it gets completed on Samsara via Pitstop.

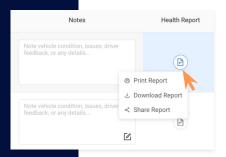
163 **7** 9

Vehicles Safe Vehicles Unsafe Resolved



# Make Shop Visits More Efficient

Shops are now leveraging Pitstop's vehicle health report when fixing vehicles. This has improved the quality of repairs and reduced the time needed to diagnose issues.



#### **Vehicle Health Report**

Report Date: Jun 26th 2024

Unit ID: 38.2547 VIN: 5KKMAVDV8HPJH3473 Odometer: 104586.71 miles

Asset: WESTERN STAR 4700 2017 Engine Hours: 14973.95 hours

#### **Issues**

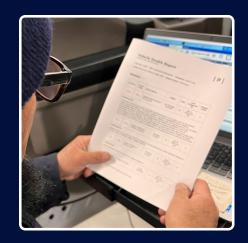
Priority	Fault Code	Description	VMRS	FMI	Last Triggered At	Tri gger Count
Critical	5444	Engine crankcase breather oil separator speed	POWER PLANT	1	Jun 24, 2024 3:50 PM	230
F1 +2						
Explanati Crankcase l mist from t	breather, als	so known as crankcase oil se rankcase.	parator or cra	nkcase v	entilation, clea	ns the oil

P

#### **DVIR Defects**

Status	Defects	Location	Type	Created By	Added On
Unsafe	Engine light on dash / Luz "Check Engine" en el tablero prendida	Plant 13 Moore Bar	Post- Trip	Tom Hernandez	Jun 21 2024 9:50 AM
Oriver No Check engin	N 9				

# **User Feedback from Summit Materials**



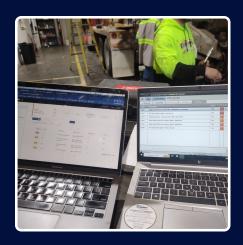
"Until you showed us the platform in person, I was not convinced but now my mechanics love the vehicle health reports"

Michael - Summit, Denison



"I like the Pitstop alerts better than the Samsara ones because the descriptions have more details. This helps me diagnose the problems efficiently."

Jeremy - Summit, Paris



"I want to have all important information in ONE PLACE. Its hard to go on Samsara, TMT, Teams etc. on a daily basis."

Manuel - Summit, Rosenberg