

Heavy Duty Diagnostics STUDY 2019



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2019 Fleet Maintenance **Heavy Duty Diagnostics Study**

In which of the following areas do you get the most help from vehicle and component manufacturers?

31% Repair

27%

Warranty

24%

Diagnostics

14% Maintenance

1%

Operations

0% Safety

4% Other

By Fleet Maintenance staff

NOT ONLY DO TECHNOLOGICAL ADVANCEMENTS CONTINUE

with vehicles, but also with the tools used to help diagnose, troubleshoot, and repair these vehicles. The importance of having a thorough and standardized diagnostic program with comprehensive tools is critical to quickly and accurately diagnose vehicle issues.

The results of the 2019 Fleet Maintenance Heavy Duty Diagnostics Study are designed to provide fleets and heavy duty repair shops with insights on the state of current product adoption, and pain points where tools and processes may be improved.

All respondents to this survey indicated they use diagnostic tools to work on heavy duty vehicles.

This general report provides an overview of current diagnostic tool usage, as well as current and desired scan tool functionality, among fleets.

Highlights

Below are some of the biggest takeaways from the recent study conducted by Fleet Maintenance:

- Of the individuals surveyed, 91 percent indicate they approve, recommend, or specify heavy duty diagnostic tools
- Nearly two-thirds of respondents prefer using a software-based diagnostic platform run on a shop computer or tablet, compared to a standalone, handheld scan tool (36 percent).
- Respondents utilize both OE and aftermarket scan tools.
 - » Two-thirds of respondents use OE scan tools in some
 - » Nearly **half** use both OE and aftermarket scan tools
- When it comes to diagnostic tool usage, respondents indicated the top three reasons for using scan tools currently include:
 - » Access to troubleshooting procedures
 - » Checking parameter identification numbers (PIDs)
 - » Resetting calibration parameters on various electronic
- While vehicles continue to become more advanced, some scan tool functionalities have lagged behind, according to respondents. The top three areas where respondents would like to see improvement in diagnostic tool functionality include:
 - » Troubleshooting electrical problems
 - » Bidirectional tests and functionality
 - » Coverage of OE vehicles and components
- Nearly half of respondents said having a single tool and subscription to diagnose all vehicles serviced remains their biggest challenge. ■

4 Welcome

An introduction to the Heavy Duty Diagnostics Study, brought to you by Fleet Maintenance magazine.

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- » OE diagnostics

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On the Cover:

Images from Dreamstime





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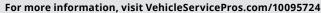
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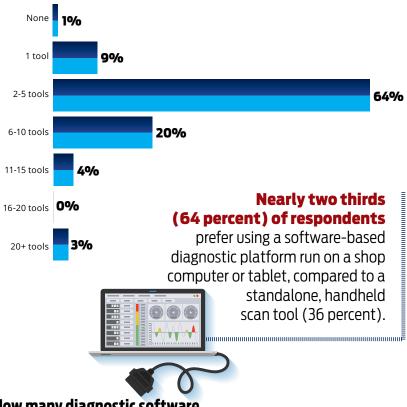


Diagnostic tool usage

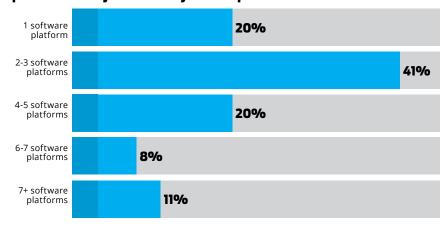
TOOLS IN THE SHOP

When reviewing diagnostic tool usage, the study considered trends in the tool platforms fleets prefer, the frequency and cost of tool updates, and warranty expectations. The study also surveyed the frequency and usage of original equipment manufacturer (OEM) scan tools compared to aftermarket options.

How many diagnostic scan tools do you have in your shop?



How many diagnostic software platforms do you have in your shop?



What are your expectations regarding the appropriate length of time for a diagnostic scan tool warranty?



17 percent of respondents

indicated they have previously purchased an extended warranty on a diagnostic tool.

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When you update your diagnostic tool subscription, does the tool manufacturer continue to provide a hardware warranty during the life of that subscription?

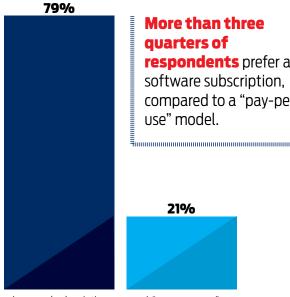


Diagnostic tool usage

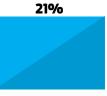
TOOLS IN THE SHOP



What is your preferred diagnostic software update method?



More than three quarters of respondents prefer a software subscription, compared to a "pay-peruse" model.



An annual subscription with regular updates included

A "pay-as-you-go" update model

Charging for vehicle diagnosis



Two-thirds of respondents indicated they do

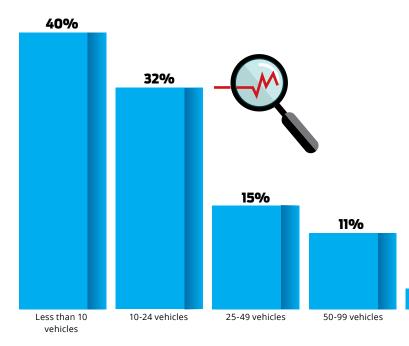
not charge for a diagnostic report, or it is not applicable to their business.



Of all fleet types, independent repair/contract maintenance providers are

the most likely to charge to run a diagnostic report. Forty percent of these providers charge an average of \$100 to \$200 for the report.

On average, how many vehicles does your fleet diagnose on a weekly basis?





Just over one quarter (28 percent)

of fleets scan every single vehicle that enters the service bay.

3%

100+ vehicles

Diagnostic tool usage

OE DIAGNOSTICS



Does your fleet use OE scan tools?



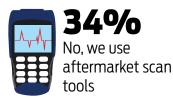
18%

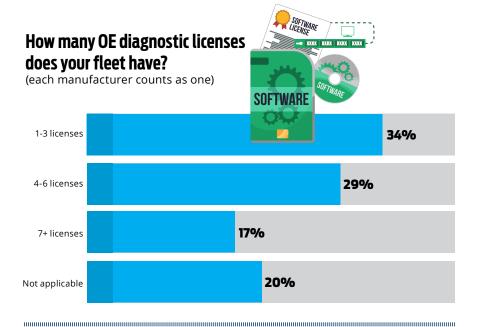
Yes, we use OE scan tools

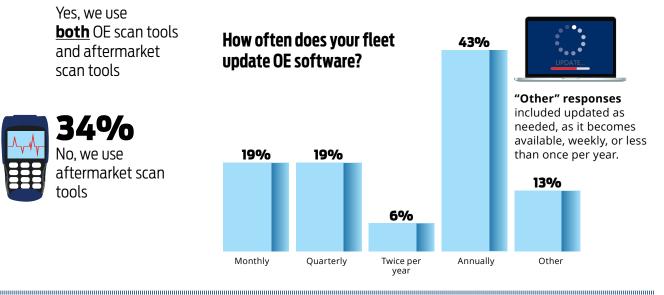


48%

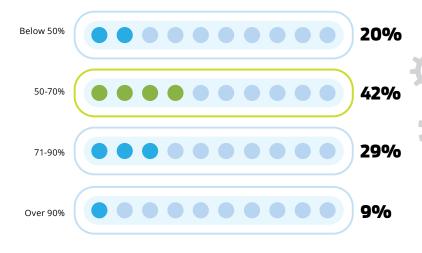
Yes, we use **both** OE scan tools and aftermarket scan tools







What is the percentage **functionality** coverage to OE software?









With easy-to-use software and a massive array of technical information, technicians can perform an ultra-fast and accurate diagnosis to get the repair done right and the vehicle back in operation.

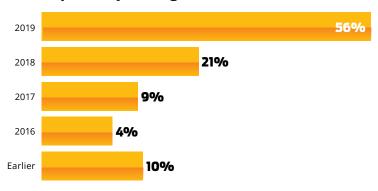
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Respondents shared their expectations of diagnostic scan tool functionality. This includes the current processes and procedures performed with these tools, as well as what respondents expect for tool coverage and capabilities. For instance, more than half of respondents (56 percent) indicated they require a scan tool that provides 2019 model year vehicle coverage.

The survey also gathered information on where scan tool functions fall short and where tool manufacturers may be able to offer improvements in the future.

What is the latest model year support you require for your diagnostic scan tool software?



CURRENT FUNCTIONALITY

What are the main functions your fleet uses on a diagnostic scan tool?



77%

Access to troubleshooting procedures

P100

55%

Checking parameter identification numbers (PIDs)



52%

Wiring diagrams



51%

Resetting calibration parameters on various electronic systems



41%

Bidirectional controls and testing



36%

Diagnostic coverage for 'off-highway' vehicles (construction, agricultural, and others)



34%

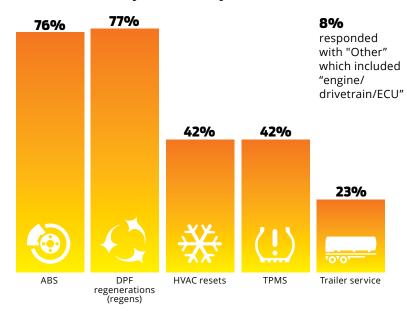
Controller reprogramming



32%

Live 'on-tool' support to assist or guide technicians through the diagnosis or repair

For what vehicle systems does your fleet check PIDs?

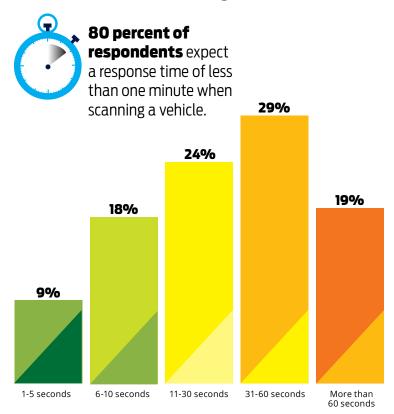


What is the expected length of time it takes to prepare and set up a scan tool to work on a vehicle, including system boot-up time?

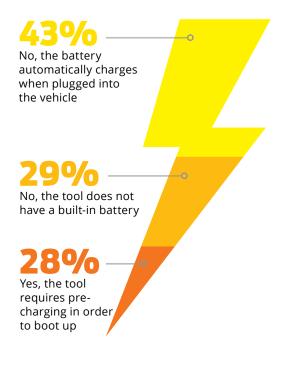


CURRENT FUNCTIONALITY

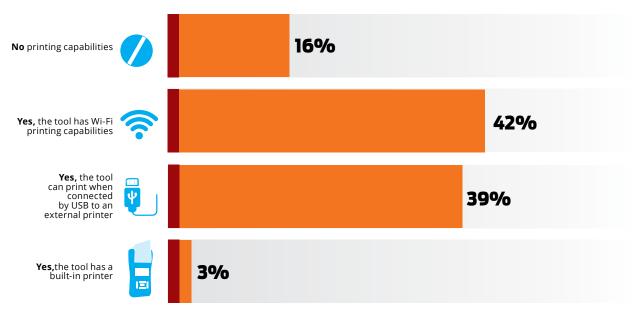
What is the expected maximum response time, in seconds, when scanning a vehicle?



Does your diagnostic scan tool require the tool battery be pre-charged before using?

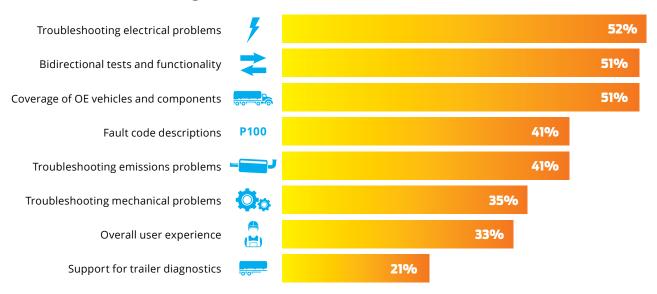


Does your diagnostic scan tool have printing capabilities?

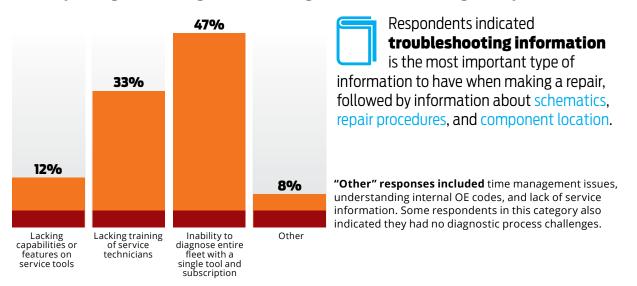


DIAGNOSTIC CHALLENGES

With continued advancements in technology and complexity of vehicles, where have diagnostic tools fallen behind?



What is your organization's greatest challenge when it comes to diagnostic processes?





When diagnosing a vehicle, what process takes more time than expected?

Searching for diagnostic information from multiple sources

35%DPF regenerations

21% Resetting calibration parameters on various electronic systems 21% Controller reprogramming



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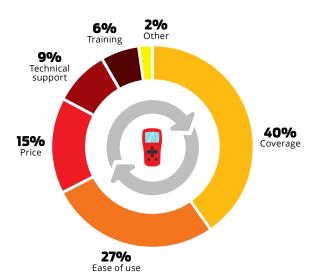
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SUPPORT AND TRAINING

What is the most compelling reason to switch diagnostic platforms?



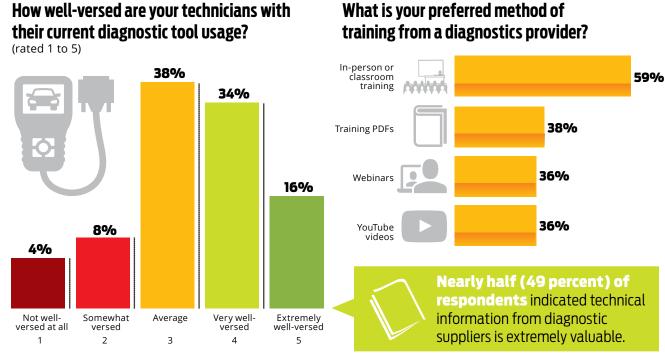
Does your diagnostic tool manufacturer provide free U.S.-based technical support for the life of the tool, regardless of the tool software subscription status?

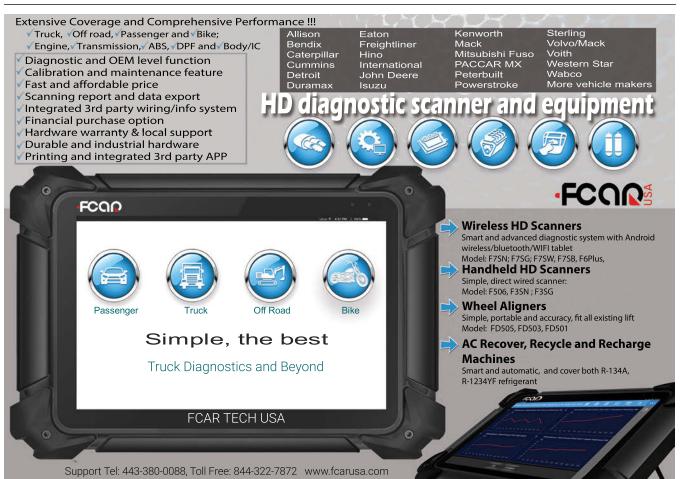


Yes Yes 48%



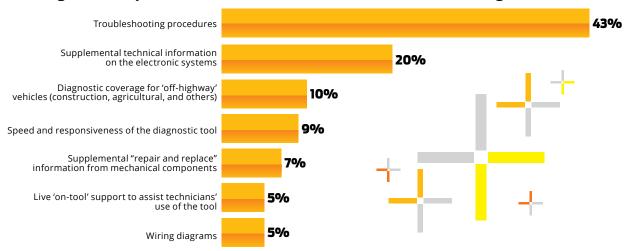
SUPPORT AND TRAINING





DESIRED FUNCTIONS

What single most important additional feature should be included on a diagnostic tool?



REPROGRAMMING AND REMOTE DIAGNOSTICS

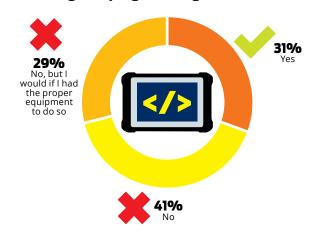
What is RP1210, and how does it benefit diagnostics?

The Technology & Maintenance Council (TMC) Recommended Practice (RP) 1210 provides guidelines on standardizing the process of communication between the vehicle and a heavy duty diagnostic scan tool.

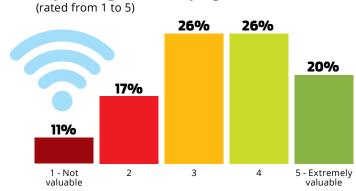


Nearly half (48 percent) of respondents indicate RP1210 is a
necessary feature when shopping for
new heavy duty diagnostic scan tools.

Do your fleet's diagnostic tools leverage reflashing or reprogramming with RP1210?



How important are remote diagnostics to your diagnostic tool program?







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SIMPLYTHE BEST HD COVERAGE INTHE AFTER MARKET



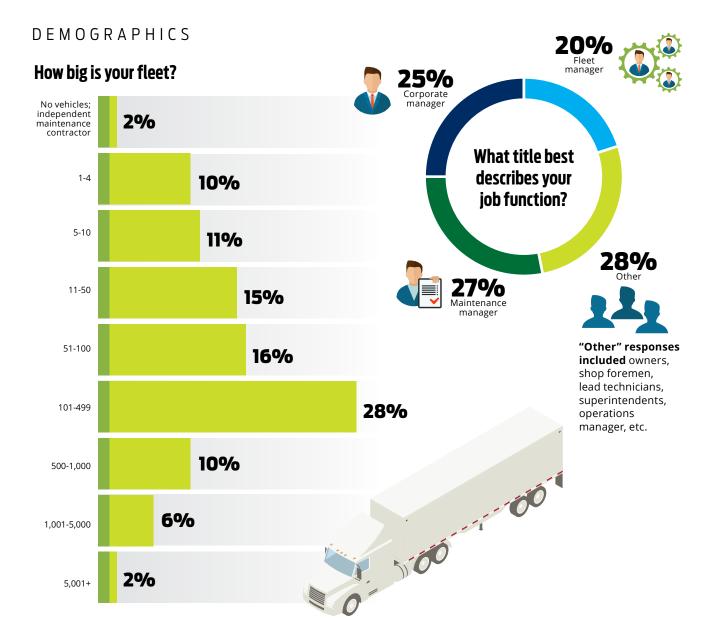
Participant details

To make the results of the 2019 Fleet Maintenance Heavy Duty Diagnostics Study more useful, it is helpful to understand who responded to the study. Respondents to this study covered a variety of business types, including: contract maintenance providers, common carriers, government and public safety, retail and wholesale delivery, and more.

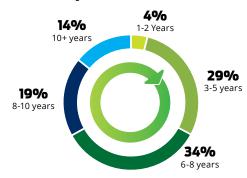
This section also provides details on whether respondents approve, specify, or influence heavy duty diagnostic tool-related category purchases.

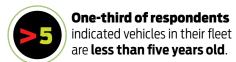
PURCHASE AUTHORITY AND INTENTIONS

91% of respondents have direct or supervisory influence over fleet maintenance **AND** approve, recommend, or specify HD diagnostic tools.



What is the average age of vehicles in your fleet?

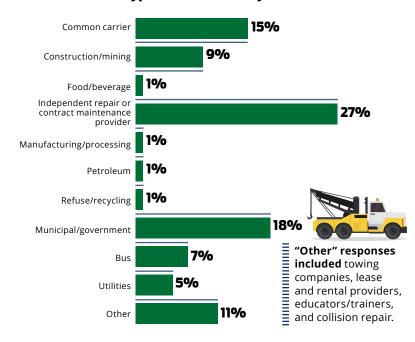






Two-thirds of respondents indicated vehicles in their fleet are less than eight years old.

What business type best describes your fleet?



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