



## Gert Horstmeyer knows if your engine is healthy

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The motor is the heart of a vehicle. And the most expensive component. Sometimes one suspects it could go badly with him. But how can you find out? Gert Horstmeyer had a simple but ingenious idea. And has invented a health test for engines. We spoke with him.

**Office:** *Mr. Horstmeyer how did you come to develop a health test for engines?*

**Gert Horstmeyer:** How many times in life, ideas are at work. In this case, when advising a law firm. These I advise many years long if patents bought or licenses should be awarded. At that time could not just google it. Expert advice, expert opinion was still in For example: be a process for purifying cooking oils or frying fat had appraised.. Patentable? Does it work that way? Mark Able? The task was to investigate. A university professor had a thick paper "developed", should clean the kitchen oils for reuse.

However, it used to be marketable, not because it did not work. In the studies I noticed the so-called "chromatographic effect". stay here, very simply put, the heavy particles are in the middle. Then propagate the ever lighter particles outward circular. At some point, this effect was of particular importance when thinking or in my sleep: If this works at French oil, why not for motor oil? These applications are very numerous and certainly mark just. After 120 days laboratory and much research I could the procedure that has been tested by TÜV Süd registered for a patent. MOTORcheckUP was born.

**Office:** *Why was this so important to?*

**Gert Horstmeyer:** In the market-preliminary studies, the test has only generated once a frown in many workshops: What? This should go? That's read like coffee grounds! When I then but the test results have interpreted without knowing what vehicle it was and needed only some data, such as oil mileage and total mileage and then declared the old masters: This is a diesel vehicle, very poor combustion, much condensation in the oil, so make a short-haul vehicles with large combustion problems, the more the frown and I could look into

Stauneugen. Then the curiosity was great and we went from car to car. Also, we have found is that when brakes and power steering was much amiss. That was clear to me signals that the workshops and many other users need such a product. Especially for your own safety and for customer retention.

**Office: How does such a test?**

**Gert Horstmeyer:** The function I declare mostly by I wear the white medical gowns and capes me a stethoscope:

If the doctor wants to know if the patient is healthy or what he lacks, it requires only **a** drop of blood to diagnose what's wrong. MOTORcheckUP works the same. You only need **one** drop of engine oil to determine what the motor is missing. This is very easy and above all without any tools: the still hot off the engine, pull out the dipstick, should last about three centimeters above the test sheet and let drop, only one drop of engine oil to the test. Finished.

How it works MOTORcheckUP

Now you have the "testers" to wait about three to six hours - depending on the age of the oil, temperature and humidity. can best be overnight. The small oil stain "matures" then. On the basis of comparison images can now be very easily determine whether the engine is healthy or what he lacks. The test result is thus read off easily understandable and comprehensible images.

**Office: And what you can see exactly?**

**Gert Horstmeyer:** In these four important areas are the test information: combustion state (soot, dust, abrasions, impurities), engine oil condition, presence of cooling water or fuel in the engine oil. So is the four basic health areas of the engine. In a table of "testers" gets shortcomings are detected useful information on possible causes, consequences and effects on the engine as well as helpful tips to remedy the deficiencies.

<https://youtu.be/HSaHAjzdmSoamt>:



**Office: If your test only for engine oils?**

**Gert Horstmeyer:** No, we can analyze in principle, any oil in the car. Many indeed neglect the condition of their brakes power steering or hydraulics. The gear oil is another size who like to fall under the table. Often, however, the check is neglected these safety-related supplies.

All plant oils contain important additives are intended to prevent the damage and the oils from overheating, wear (abrasion), protect aging. If these additives are aged or consumed, oil sludge forms. Characterized life and performance can be reduced while increasing operating costs and risk the functioning of the operating ranges. With our new simple test method "FLUIDcheckUP" is very easy to test the efficiency of the plant oils and determines their functionality. This works basically the same way as in MOTORcheckUP.

applying the respective operating oil with a pipette or a control bar on the test sheet. then compare with the corresponding area of the operating oil. FLUIDcheckUP is not just about security, especially for predictive maintenance, reliability of the units, avoiding costly repairs and life extension.

**Office: How important is your invention for the independent automotive parts market?**

**Gert Horstmeyer:** I have to admit that unfortunately the aftermarket and the workshops have not yet recognized nationwide, what potential in the products. If we want to bring it to a common denominator: These are not "products" in principle, there are marketing tools. Because I list briefly what MOTORcheckUP and FLUIDcheckUP afford:

MOTORcheckUP is an effective test method to the long term to increase sales, enhance the image and enhance customer loyalty for car dealerships and workshops. This allows easy, safe and fast the state of health to review the functioning and wear in the engine.

With just a drop of engine oil to the respective test, a diagnosis can be made quickly. MOTORcheckUP is patented in Europe and many other countries, TÜV Süd tested and has been used by numerous workshops, experts and organizations and recommended.

**Office: What else can you find out your test?**

**Gert Horstmeyer:** Many experts and appraisers rely MOTORcheckUP in that they can now also see the units from within. Our methods are opened for experts many ways to assess when evaluating and assessing both the brakes, power steering and gearbox and the engine by only one drop of fluid is required for any damages or causes of irregularities in a very simple as noted. Now, these units are not spared. The test system provides users with significant added value - and makes them better than the competition. By the way: Many experts use our tests as evidence in court.

**Office: Who can use your test and where to get it?**

**Gert Horstmeyer:** short: Wherever there are engines or something moves. The user groups are so numerous that I usually explain: From slurry pump to tanks of emergency generator to diesel. All four-stroke engines, hydraulics, brakes can be checked. And very inexpensive, simple, fast and reliable.

The tests can be ordered directly through our shop. We have an introductory offer, we like to send on request. Also we are very interested in a sales cooperation. The market is huge, the possibilities varied.

**Office:** Which competition you have to worry?

**Gert Horstmeyer:** I'm a little overbearing times: We have no competition. The only method but can not be compared, is the laboratory examination. As I said, not comparable, because MOTORcheckUP and FLUIDcheckUP are a coarse screen. Laboratory analyzes are much more precise, but also much more expensive, take longer are cumbersome to handle - and in many cases customers can not even interpret the test results because the chemical expertise is lacking. Often it is only half the story when an oil is returned without the original oil is compared. Most so our text system is fully sufficient for everyday use.

**Office:** What are your plans for the future?

**Gert Horstmeyer:** The future has already begun. The means: digital. With the development of idia the digital age has occurred with us. The actual forced to take this step comes from the users, especially the workshops. Here we have to learn again and again that the employees balk something new to learn. People are not stupid! But unfortunately stinkfaul too often, if there is to learn new things.

Therefore, we work for about five years on the digital solution, because with the mobile phone or tablet, each can handle with ease. Our idia is the digital continuation of the current analysis method. The system is based on artificial intelligence. Everything is very easy to use and just as quickly and cheaply. Here are scanned in idia device from the test photos and sent to the Auswerteserver internet. After a short time the user gets back via e-mail a PDF file with the test result. Simple and reliable. What are far from hand, so be inspected visually evaluated had, is now simple, fast and reliable to perform with the iDiA- diagnostic system.

The system is now mature and already in some countries outside Germany in use. In Turkey, Holland, Belgium, Serbia (all former. Yugoslavia), UAE, Kuwait, Oman, Malaysia, India, Philippines, USA, South Africa, Japan.

We are ready, the product is ready and we start: now.



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