



RUPPILAB

MaschinenNotes

Costs, Maintenance & Fuel

User Manual

The logbook for everything with an engine, wheels and an ID number – from cars and motorcycles to tractors and forklifts. All data is encrypted – and with a license in sync on computer, phone and tablet.

Windows

macOS

Android

iOS

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1

Welcome

MaschinenNotes is your vehicle and machine logbook: refuels, charging sessions, maintenance, costs, deadlines and tires – for every vehicle in one place, with clear statistics.

Car, motorcycle, e-scooter, van, truck, trailer, tractor, combine harvester, excavator, forklift or boat: MaschinenNotes knows 44 vehicle types in 7 groups and adapts counters, inspection intervals and input fields to the type. Vehicles with an hour meter are tracked in operating hours, all others in kilometers or miles.

What MaschinenNotes does

- **Logbook** for refuels, charging (EVs, kWh), maintenance, costs, trips, tires, fluids and events – with filters, monthly groups and a summary.
- **Consumption** from full tank to full tank, including partial and missed refuels; comparison with the market price (“4 ct below market price – €1.69 saved”).
- **Statistics** per vehicle and a **fleet overview** from two vehicles: costs per month, per km or per hour, by category, by workshop, year-on-year comparison and forecast.
- **Deadlines & reminders** for Germany, Austria and Switzerland: periodic inspection (HU/AU, §57a “Pickerl”, MFK), service by date or reading, insurance, tax and more – with suggestions and notifications.
- **Tires**: tire sets, tread depth per wheel, DOT age, mileage, storage and tire changes.
- **Farm tank & agri diesel** (Germany): stock, purchases, withdrawals, stocktakes and the estimated agricultural diesel refund with a PDF statement.
- **Vehicle data** following the German registration certificate with field codes, VIN/PIN/HIN check, photos with a cover photo, receipts and documents.
- **Workshops & contacts, recurring costs** (insurance, tax, leasing booked automatically) and **live fuel prices** nearby – with traffic light and map.
- **Lists**: 16 catalogs with more than 1,000 entries – hide, rename, favorites, defaults and your own entries, for all vehicles, one vehicle type or a single vehicle.
- **PDF reports** (vehicle file, agri diesel statement, fleet report), **CSV export, import** from Spritmonitor, Drivenote, Fuelio and your own spreadsheets.
- **Sync** between all your devices – computer, phone, tablet: one data set, changes merged per record, several people can work at the same time, photos and receipts included, end-to-end encrypted. All connected devices are equal – even two phones sync with each other directly via the cloud. You pair your phone simply by scanning a QR code (with a desktop license, chapter 21).
- **GPS-Srv connection**: if you use the GPS tracking service **GPS-Srv.de** by RuppiLab, MaschinenNotes imports trips, odometer readings and optionally refuels into the logbook automatically – read-only, at no extra charge, with the route on RuppiLab's own map (chapter 17).
- **Backup & restore** – encrypted, automatic if you like.

Platforms and languages

Platform	Requirement	License
Windows	Windows 10 or 11, 64 or 32 bit	14-day free trial, then license
macOS	Mac with Apple silicon	14-day free trial, then license (same key as for Windows)
Android	phone or tablet	free, no ads, no in-app purchases; sync with the sync code or QR code from the licensed computer
iOS	iPhone or iPad	free, no ads, no in-app purchases; sync as on Android

The interface is available in **German** and **English**; you can switch at any time. As country of registration you can choose **Germany** (default), **Austria** or **Switzerland** – this determines inspection intervals, license plates and agri diesel.

What MaschinenNotes deliberately is not

Good to know

- **Not a tax-compliant mileage log.** A “Trip” entry is a trip log entry – not a mileage log for the tax office. The same applies to trips imported from GPS-Srv.
- **No account, no tracking.** Your data is stored AES-256 encrypted on your devices. Sync is optional, needs no user account (RuppiLab Cloud) and is end-to-end encrypted – the storage provider only sees unreadable data (chapter 21).
- **No multi-user network database** and no online license activation. Sync reconciles the data of your devices – each device works with its own database, offline too.
- **No sync during the trial.** You get the sync code only with a purchased desktop license.

About this manual

The figures show the Windows version with the app's **sample data** (fictitious vehicles, people and companies). Only three figures show the English interface; all others show the **German interface** and are marked accordingly – layout and functions are identical, the labels are given in English in the text. MaschinenNotes looks the same on macOS; on the phone the content is the same, just arranged differently (chapter 3). App labels are set in **bold**. Deadlines, consumption figures, tire and agri diesel information come without guarantee – manufacturer data, inspection bodies and authorities take precedence.



2 Installation & first start

Windows

- 1 Download MaschinenNotes for Windows: [\[DOWNLOAD-LINK\]](#).
- 2 Start the program. On first start MaschinenNotes briefly shows the splash screen ("Opening database ...", "Loading lists ...") and then opens the **Welcome** page.
- 3 The **14-day trial** with all features starts with this first launch. The header shows how many days are left, e.g. **Trial · 9 days left**.

macOS

The Mac version is built for Macs with Apple silicon. Download it from [\[DOWNLOAD-LINK\]](#), drag MaschinenNotes into the **Applications** folder and start it from there. Trial and license work as on Windows; one license key is valid on both systems.

Android and iOS

On phones and tablets MaschinenNotes is **free** – no ads, no in-app purchases, no trial period. Publication in Google Play and the App Store follows soon.

Depending on the feature, the system asks once for a permission:

- **Camera and photos** – for receipts, vehicle and tire photos and for scanning the QR code for sync. Without permission there is no access to the camera or photos.
- **Location** – only for **Fuel prices** near you; it is only used for the search and never shared.
- **Notifications** – for deadline reminders and the price alert.

The Welcome page

As long as no vehicle exists, the **Welcome** page greets you. Set two things there and choose how to start:

- 1 **Where is your fleet registered?** Choose Germany, Austria or Switzerland. This determines inspection intervals (HU, §57a, MFK), taxes and plates. You can change it later in **Settings**.
- 2 **Language:** German or English.
- 3 **Let's go** – choose a starting point:
 - **Add first vehicle** – opens the vehicle editor (chapter 4).
 - **Try with sample data** – creates four sample vehicles.
 - **Bring data from another app** – starts the import (chapter 16).
 - **Connect with sync code** – brings your data from a computer on which sync is already set up: scan the QR code or type in the sync code (chapter 21).

Sample data

To try things out, MaschinenNotes creates four vehicles with a good year of history: a VW Golf, a Fendt tractor with farm tank, a Yamaha (with seasonal plate) and a tipper trailer – including entries, deadlines and tire sets. All figures in this manual show this sample data.

Tip

Under **Settings** > **Sample data** you can delete it at any time with **Remove sample data**. Only the sample vehicles with their entries, tire sets and the sample farm tank are removed – your own data stays.

Where is my data?

All data lives in a data folder on your device. The exact path is shown under **Settings** > **Data** > **Data folder** and in **About MaschinenNotes**.

System	Data folder
Windows	%APPDATA%\RuppiLab\MaschinenNotes
macOS	~/Library/Application Support/RuppiLab/MaschinenNotes
Android, iOS	the app's documents folder

The data folder contains the encrypted database `maschinennotes.db` and the subfolders `Belege` (photos and documents), `Backup` (backups), `Berichte` (PDF reports) and `Import` (files for data import). The folder names are German on every system.

3 The user interface

On the computer you see everything at a glance: the sidebar with all vehicles on the left, the header at the top, the page of the selected vehicle on the right.

Desktop: Windows and macOS

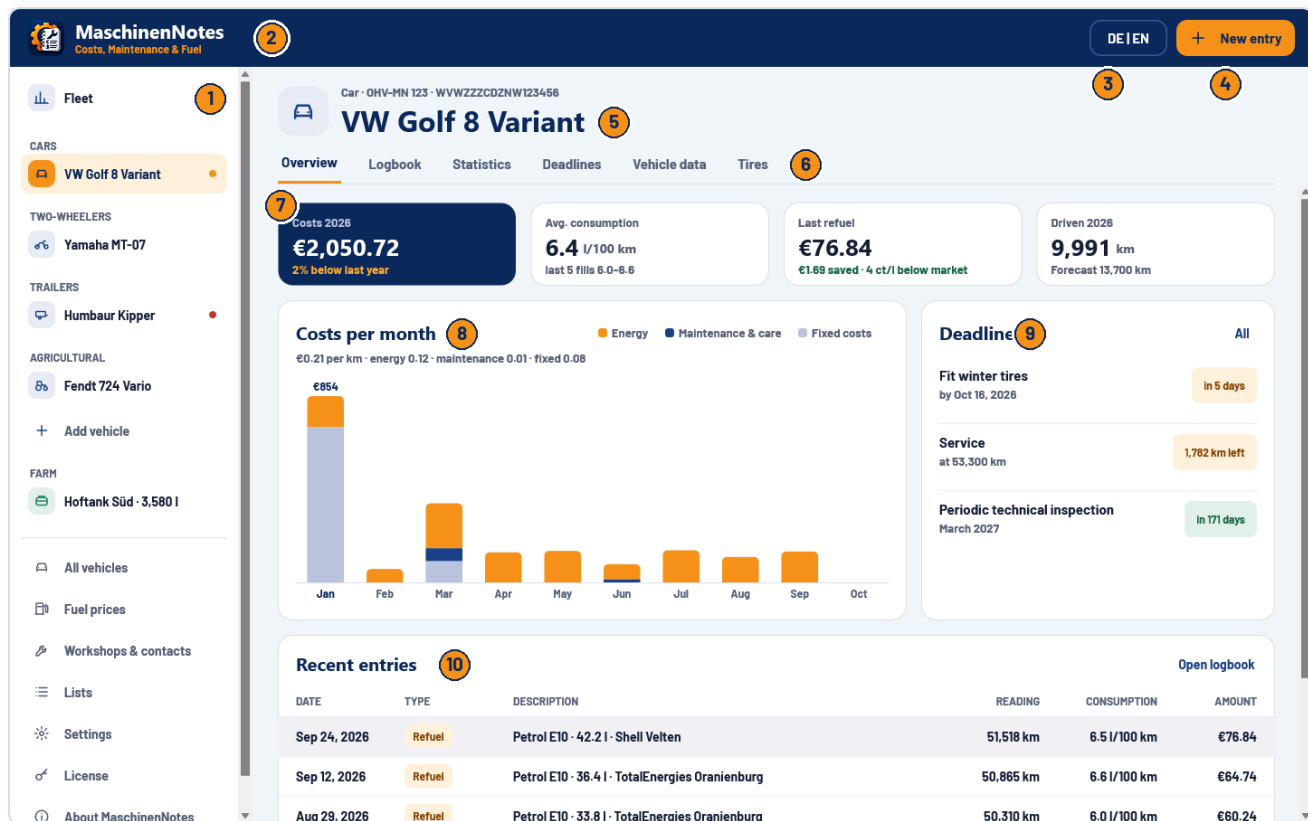


Fig. 1 – Main window with sidebar, header and the overview of a vehicle

- | | |
|---|--|
| 1 Sidebar – fleet, vehicles by group, farm and areas | 6 Tabs of the vehicle |
| 2 Header with logo and program name | 7 Key figures of the current year |
| 3 DE EN – switch language | 8 Costs per month |
| 4 New entry for the selected vehicle | 9 Deadlines – what is due next |
| 5 Vehicle header: type, plate, VIN and name | 10 Recent entries |

Sidebar

- **Fleet** – appears as soon as at least two active vehicles exist (chapter 7).
- **Vehicles**, grouped into **Cars**, **Two-wheelers**, **Commercial vehicles**, **Trailers**, **Agricultural**, **Machines** and **Other**. A click selects the vehicle. An **orange dot** marks a deadline due within the next 30 days, a **red dot** an overdue one.
- **Add vehicle** – creates a new vehicle.
- **Farm** – your farm tanks with current stock (once a farm tank or an agri-diesel-eligible vehicle exists).



- Below: **All vehicles, Fuel prices, Workshops & contacts, Lists, Settings, Sync, License** and **About MaschinenNotes**.

Header

In the dark blue header, **DE | EN** switches the language. Next to it, during the trial, the **license badge** appears ("Trial · 9 days left"; orange in the last week) – a click opens the **License** page. The **sync icon** next to it shows the sync status (chapter 21). The orange **New entry** button opens the choice of entry types for the selected vehicle (chapter 5).

Vehicle tabs

Tab	Content
Overview	key figures, costs per month, next deadlines, recent entries
Logbook	all entries by month, with filter and summary (chapter 5)
Statistics	costs, consumption and distance per year (chapter 7)
Deadlines	open and completed reminders, suggestions, recurring costs (chapters 8, 12)
Vehicle data	profile, registration, technical data, purchase, insurance, photos and documents (chapter 4)
Tires	tire sets, tread and tire changes (chapter 9)

The page actions sit at the right of the page header, e.g. **New reminder, Vehicle file (PDF)** or **Edit**. If the window is narrow, MaschinenNotes groups them under **More actions**.

Phone: Android and iOS

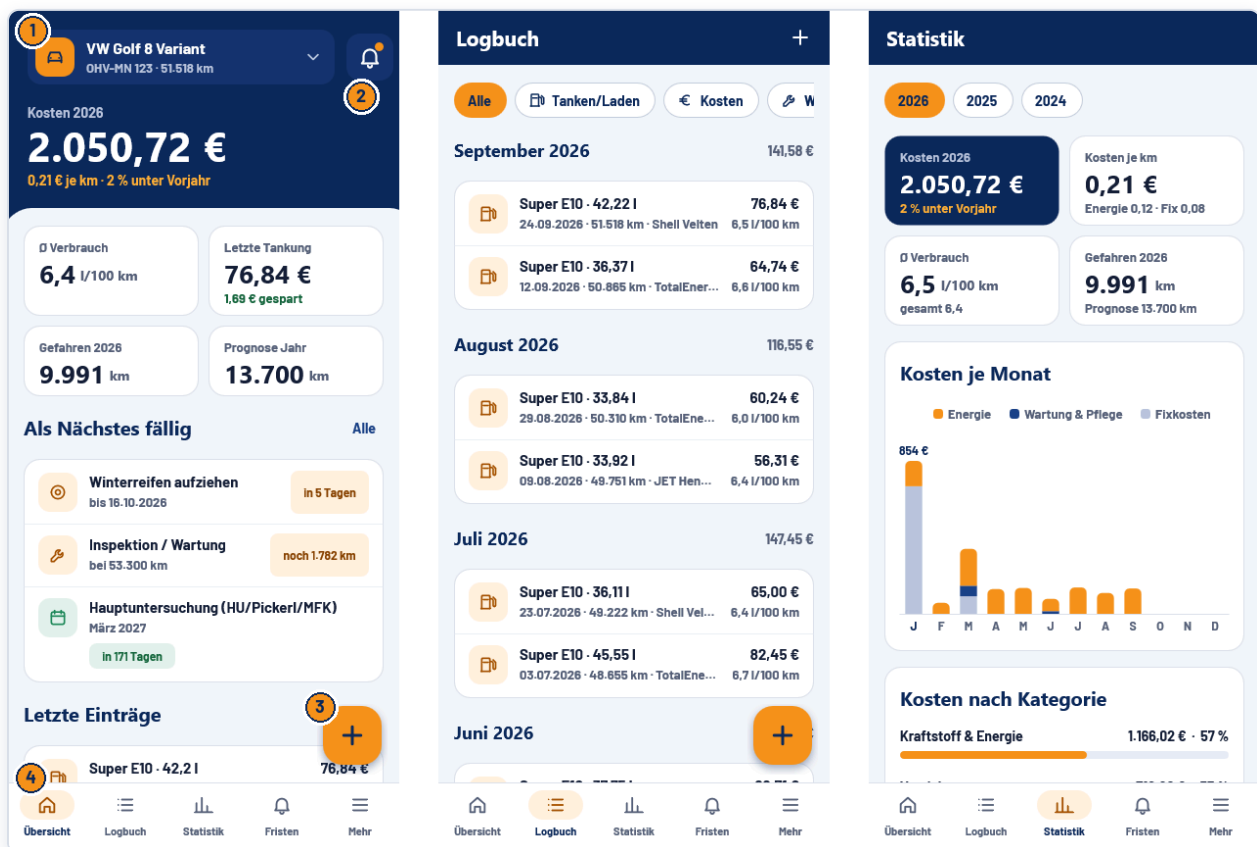


Fig. 2 – Phone view: overview, logbook and statistics
Figure shows the German interface.

- 1 **Switch vehicle** – tap the vehicle at the top
- 2 **Bell** – opens the deadlines
- 3 **Plus button** – New entry
- 4 **Bottom bar** – main areas

On the phone the main areas are in the **bottom bar**: **Overview**, **Logbook**, **Statistics**, **Deadlines** and **More**. **More** holds everything else: **Fleet**, **Vehicle data**, **Tires**, **Switch vehicle**, **All vehicles**, **Farm tank & agri diesel**, **Fuel prices**, **Workshops & contacts**, **Lists**, **Settings**, **Sync**, **Language** and **About MaschinenNotes**.

On Android, the back button on a main page returns to the **Overview** instead of closing the app.

Unsaved changes

If you leave an editor without saving, MaschinenNotes asks: **Discard changes?** – with **Discard** or **Keep editing**. No input gets lost by accident.

4 Adding & editing vehicles

Add a new vehicle

- 1 Click **Add vehicle** in the sidebar (phone: **More** > **All vehicles**, or **+ Add vehicle** in the vehicle picker).
- 2 Choose the matching **Vehicle type**. The type determines the counter (km or hours), inspection deadlines and which fields are offered. Choose a vehicle type, not the group.
- 3 Under **General**, enter a **Name** (required) – or take the **Suggestion: make and model**.
- 4 Add identification number, registration, technical data, counters, purchase and insurance as you like.
- 5 Click **Save** (or **Ctrl** + **S**).

Fig. 3 – Edit vehicle: vehicle type, general, photos and identification
Figure shows the German interface.

Vehicle types

The **Vehicle types** catalog contains 44 entries in 7 groups:

Group	Vehicle types (selection)
Cars & motorhomes	Car, Taxi / hire car, Motorhome, Microcar
Two-wheelers & small vehicles	E-scooter, Speed pedelec, Moped (25 km/h), Moped (45 km/h), Motorcycle, Light motorcycle (up to 125 cc), Scooter, Trike, Quad / ATV
Commercial vehicles & buses	Van, Truck (3.5 to 12 t), Truck (over 12 t), Tractor unit, Minibus, Bus



Group	Vehicle types (selection)
Trailers	Trailer up to 750 kg, up to 3.5 t, over 3.5 t, Caravan, Semi-trailer
Agriculture & forestry	Tractor, Crawler tractor, Agricultural trailer, Implement, Combine harvester
Construction & work machines	Wheel loader, Excavator, Telehandler, Forklift, Ride-on mower / lawn tractor, Generator
Other	Boat, Other vehicle / device

If you change the type later, MaschinenNotes only updates empty fields or defaults you have not changed – your input stays.

Identification number: VIN, PIN, serial number, HIN

Under **Identification**, choose which number the vehicle carries and enter it under **Identification number**. MaschinenNotes checks the input right away and shows notes:

Type	Where to find it	Check
VIN (FIN)	17 characters, field E of the registration document	length, the letters I, O, Q (not allowed), check digit (position 9, not mandatory in Europe), model year (position 10), manufacturer and country. Shorter numbers are possible for vehicles before 1981.
PIN	product identification number, usually 17 characters (type plate)	characters and usual length
Serial number	serial number from the type plate	note for very long numbers
HIN	hull identification number (boats), 12 to 15 characters	characters and usual length

The result appears in **Vehicle data** as a badge, e.g. **Check digit OK, plausible, with note** or **invalid**.

Registration data and field codes

The fields under **Registration**, **Technical data** and **Dimensions & weights** follow the German registration certificate part I (Zulassungsbescheinigung). With the German interface, **Vehicle data** shows the field code in front of each value, so you find it quickly in the document.



Pkw · OHV-MN 123 · WVVZZZCDZNW123456

VW Golf 8 Variant

Daten importieren Fahrzeugakte (PDF) Bearbeiten

Übersicht Logbuch Statistik Fristen **Fahrzeugdaten** Reifen

Pkw · Pkw & Wohnmobil (M1)

OHV-MN 123

FIN WVVZZZCDZNW123456 mit Hinweis

Kilometerstand **51.518 km**

Verbrauch **6,4 l/100 km**

Kosten je km **0,18 €**

Zulassung

A Kennzeichen	OHV-MN 123
Kennzeichenart	Normales Kennzeichen
Land	Deutschland
B Erstzulassung	14.03.2022
2.1/2.2 HSN / TSN	0603 / CAX
J EG-Klasse	M1 – Personenkraftwagen (bis 8 S...
4 Aufbau	Kombi
C.1 Halter	Peer Demo

Technik

D.1 Marke	Volkswagen
D.3 Modell	Golf Variant
D.2 Variante	1.5 eTSI Life
Baujahr	2021
P.3 Energie	Super E10 (0004)
P.2 Leistung	96 kW · 131 PS
P.1 Hubraum	1.498 cm³
V.9 Emissionsklasse	Euro 6d
V.7 CO ₂	123 g/km
T Höchstgeschwindigkeit	224 km/h

Reifen

Öffnen

Michelin Primacy 4+ Sommer · 205/55 R16 91V **2.8 mm bald erneuern**

2 weitere Sätze eingelagert oder ausgemustert

Fig. 4 – Vehicle data with registration field codes
Figure shows the German interface.

Code	Field	Code	Field
A	License plate	P.1	Displacement
B	First registration	P.2	Power
I	Registered to holder	P.3	Energy (fuel code)
2.1 / 2.2	HSN / TSN	P.4	Rated speed
J	EC vehicle category	V.7	CO ₂
4	Body type	V.9	Emission class
K	Type approval	T	Top speed
C.1	Registered keeper	G	Kerb weight
D.1	Make	F.1 / F.2	Max. weight (technical) / Max. permitted weight
D.2	Variant	L	Axles
D.3	Model	0.1 / 0.2	Towing capacity braked / unbraked
E	VIN	S.1 / S.2	Seats / Standing places



More fields: **Plate type** (e.g. regular, seasonal plate with **Season from/Season to**, historic, electric, interchangeable, insurance, green, red or short-term plate), **Registration cert. II no.** or **Document number**, **Battery (usable)**, **Front tires/Rear tires**, **Driven axles**, **Nose weight**, **Length**, **Width** and **Height**.

Inspection interval

The **Registration** section also holds the data for the periodic inspection: **Last main inspection (HU)** (Austria: **Last §57a inspection**, Switzerland: **Last MFK inspection**), the switches **Self-drive rental** (inspection every 12 months) with **Rental period at least 1 year**, **Ambulance** and – in Austria – **Replacement sticker fitted**. MaschinenNotes calculates the next inspection date from this (chapter 8).

Tip

Only enter the last inspection here if it is not recorded as an entry or completed deadline – the most recent date counts for the next deadline.

Counters: kilometers, operating hours, miles

Under **Counters & tanks** you set the **main counter**: **Kilometers**, **Operating hours**, **Miles** or **no counter**. The vehicle type suggests the right counter – tractors and machines count operating hours, and consumption is then shown in l/h instead of l/100 km. Under **Starting reading** enter the reading you start with in MaschinenNotes.

Note

Once entries exist, the main counter type is fixed (“fixed, entries exist”). Additional counters and tanks of a vehicle appear in the same section.

Under **Technical data** you enter **Energy (tank 1)** and **Tank capacity**; they are suggested when refueling.

Purchase, insurance, farming, notes

- **Purchase**: **Purchase date**, **Purchase price**, **Reading at purchase**, **Seller** (also **Seller from contacts**), **Financing**.
- **Insurance**: insurer from your contacts, **Policy number**, **Tariff**, **No-claims class**, **Excess**, **Contract end**.
- **Farming**: **Vehicle is eligible for agricultural diesel**, **Farm**, **Location** (chapter 10).
- **Notes**: special features, keys, accessories, dealer ...

Photos and cover photo

In the **Photos** section you add pictures of the vehicle (**Add photos ...**; JPG or PNG – resized to 2000 px; on the phone also **Take photo** or **Choose from photos**). The **Cover photo** (star) appears in the vehicle list, in the vehicle data and in the vehicle file (PDF). Use **Set as cover photo** to choose another photo; if the cover photo is deleted, the next one takes its place.

In **Vehicle data** you can also keep **Documents** – registration document, invoices, warranty or reports as a photo or PDF.



All vehicles, archive, delete

4 Fahrzeuge

Alle Fahrzeuge

Fahrzeug hinzufügen

Pkw

 **VW Golf 8 Variant**
OHV-MN 123 · Pkw

51.518 km



Zweirad

 **Yamaha MT-07**
OHV-Y 07 · Motorrad

20.795 km



Anhänger

 **Humbaur Kipper**
OHV-K 270 · Anhänger (bis 3,5 t)



Landtechnik

 **Fendt 724 Vario**
OHV-F 724 · Traktor (Schlepper)

4.790 h
aktuell



Fig. 5 – All vehicles, sorted by group

Figure shows the German interface.

The **All vehicles** page lists your vehicles by group with their current reading. Vehicles you no longer use can be put away with **Archive** in the editor: they disappear from the sidebar and the fleet but are kept, and can be shown with **Show archived** and brought back with **Restore**. **Delete** removes the vehicle; its entries and deadlines will no longer be shown.

5 Logbook & entries

Every refuel, invoice, service or trip is an entry in the vehicle's logbook. From the entries MaschinenNotes calculates consumption, costs and statistics.

Add a new entry

- 1 Select the vehicle and click **New entry** (**Ctrl** + **N**; phone: orange plus button).
- 2 Choose the entry type.
- 3 Fill in the fields – required fields are marked; MaschinenNotes checks the values as you type.
- 4 Attach receipts if needed and click **Save**.

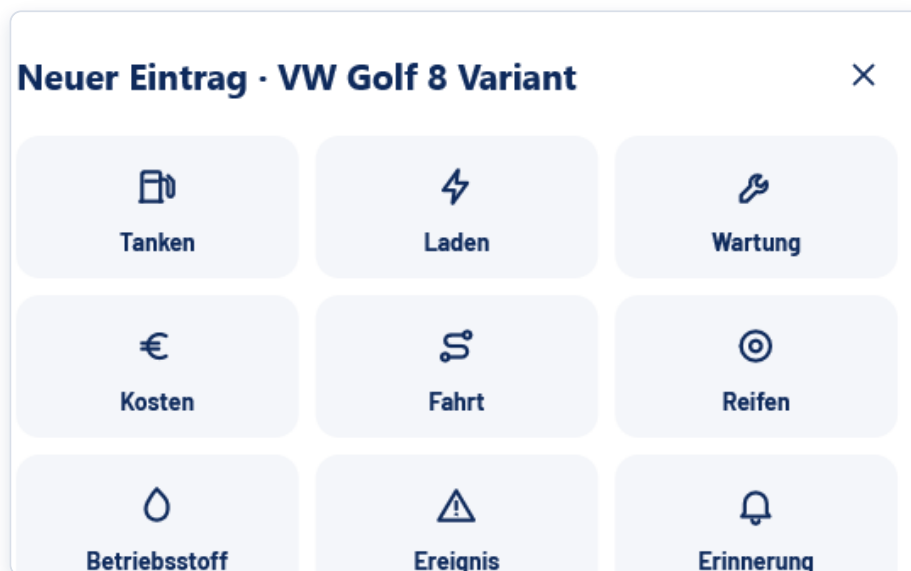


Fig. 6 – Choosing the entry type
Figure shows the German interface.

Type	Used for
Refuel	fuel (gasoline, diesel, LPG ...), also from the farm tank
Charging	charging session of an electric vehicle in kWh
Maintenance	service, repair, oil change – with items from the catalog
Costs	all other costs: insurance, tax, car wash, parking ...
Trip	log entry for a trip or job (not a tax-compliant mileage log)
Tires	tire costs, optionally assigned to a tire set
Fluid	topping up oil, AdBlue, coolant ...
Event	stone chip, breakdown, accident – with or without costs
Reminder	opens a new reminder directly (chapter 8)

Fields common to all entries

- **Date** and **Time (optional)** as hh:mm.
- **Counter reading** or **Operating hours**. Below it the last reading is shown, e.g. "last 50,865 km · +653 km". If the new reading is lower, MaschinenNotes warns: "Lower than the last reading – please check".
- **Payment method** (cash, debit card, credit card, fuel / fleet card, bank transfer / direct debit, app / PayPal) and **VAT rate** – net amount and VAT are calculated from the amount.
- **Workshop / provider** from your contacts (chapter 11).
- **More details** › **Note**.
- **Receipts** – see below.

Entry types in detail

Refuel

Fig. 7 – Refuel entry with full tank, consumption and market price comparison
Figure shows the German interface.

- **Refuelling: Energy** (fuel type), **Farm tank** or **– public filling station –, Filling station** (free text, e.g. "Shell Main Street").
- **Full tank** – basis for the consumption calculation; **Previous refuel not recorded** – no consumption for this interval (chapter 6).
- **Price: Quantity (l), Price per l** and **Amount**. Enter **two values** – MaschinenNotes calculates the third (e.g. amount = quantity × price).
- **Market price per l (optional)** – for the "ct below/above market price" comparison. **Get current price** takes the price and market price of a favorite filling station (chapter 14).



- When refueling from the **farm tank**, the note “Taken from ... – the farm tank stock is updated when you save” appears (chapter 10).

Charging

Like refueling, but with **Charging session: Charging location (Home, Work, Public AC, Public DC), Charging station (optional), Fully charged** and **Previous charge not recorded**. The quantity is recorded in kWh.

Maintenance and fluids

Under **Items** choose jobs from the **Service items** catalog (or **Fluids & lubricants**), each with **Quantity** and **Unit price**; add more lines with **Add item**. There are also **Category**, **Title** (e.g. “Service with oil change”) and **Total amount (gross)**. MaschinenNotes shows the items total and – if you enter the total manually – both values for comparison.

Costs

Category from the **Cost categories** catalog (151 entries, e.g. insurance, tax, care), **Title** (e.g. “car wash”) and **Amount (gross)**.

Trip

Counter from and **Counter to** (giving the **Distance**), **From (place)**, **To (place)**, **Purpose** (usage types such as private, business, field work, contract work, winter maintenance ...), **Driver**, **Area** in ha, **Client** and **Costs (optional)**.

Important

A “Trip” entry is a trip log entry – **not a tax-compliant mileage log**.

You don't have to type in trips if the vehicle has a GPS tracker from GPS-Srv.de: MaschinenNotes then imports them automatically (chapter 17).

Tires

A tire entry records costs (e.g. “switch to winter tires”). Under **Assign tire set** choose the set and the **Event: Assign cost only** or **Fitting (tire change)**. The amount then counts towards the cost of the set; a fitting changes the fitted set (date and reading from this entry). See chapter 9.

Event

Title (e.g. “stone chip, breakdown, accident”), **Amount (optional)** and **Note**.

Attaching receipts and documents

Under **Receipts** you attach the till receipt or invoice – handy for tax, warranty or the workshop:

- Desktop: **Add file ...** (images or PDF).
- Phone: **Photograph receipt**, **Choose from photos** or **Add file**.

Images are shown directly in the app (with **Previous photo/Next photo**); PDF and other files open with **Open file** in a suitable app. MaschinenNotes always stores a **copy** in the data folder – the original file stays untouched.

The logbook

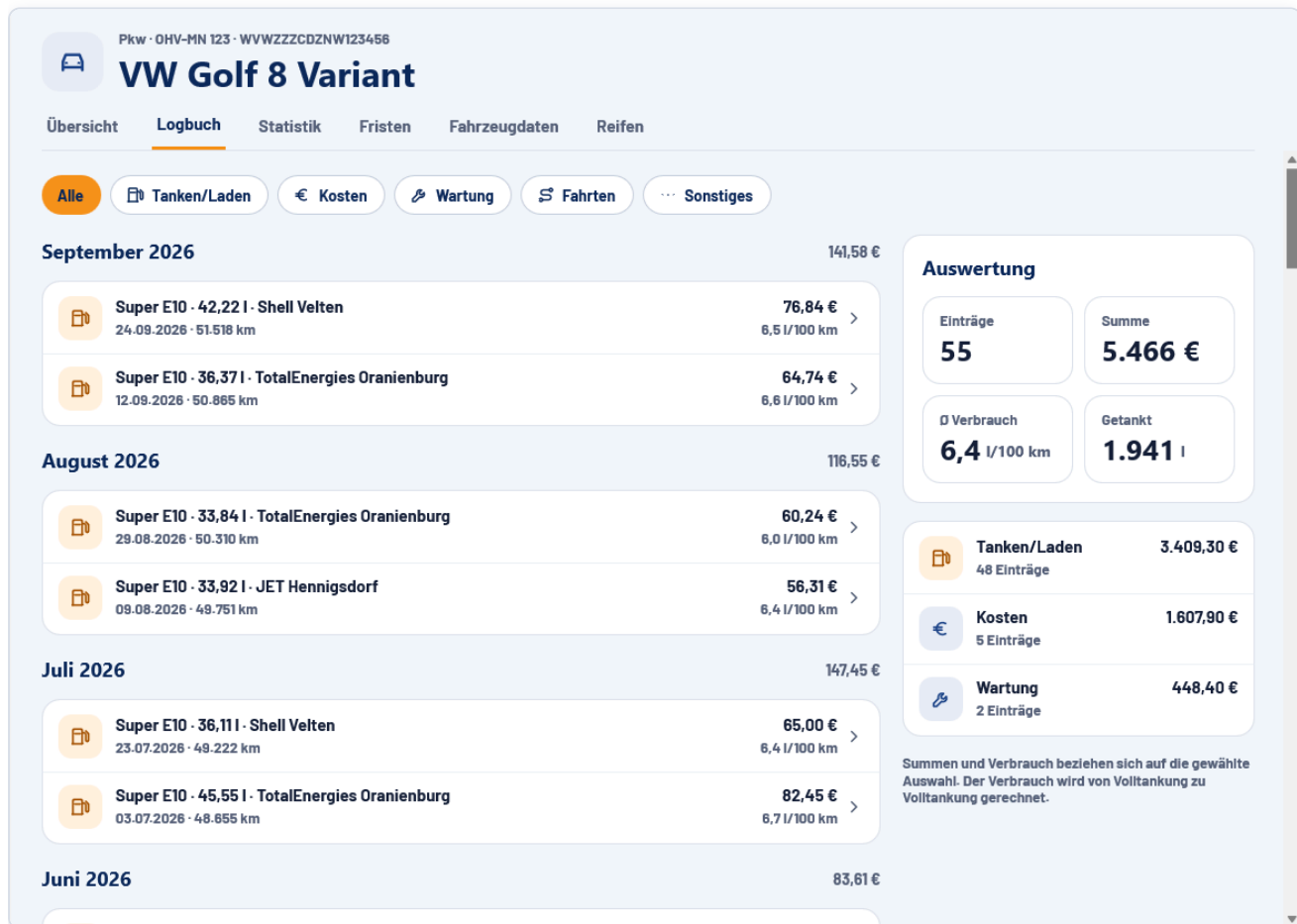


Fig. 8 – Logbook with filter, monthly groups and summary
Figure shows the German interface.

- **Filters** at the top: **All, Fuel/Charge, Costs, Maintenance, Trips, Other**.
- **Monthly groups** with the month's total. Each line shows title, date, reading, amount and – for refuels – consumption.
- **Summary** (desktop, on the right): **Entries, Total, Avg. consumption, Fuelled** and the split by entry type. Totals and consumption refer to the current selection.
- With many entries, **Load more** loads further entries.

Click an entry to edit it; there you can also **Delete** it.

6

Recording consumption correctly

For an accurate average, MaschinenNotes needs two things: the reading at every refuel, and whether you filled up completely.

How MaschinenNotes calculates

Consumption is calculated **from full tank to full tank**: all quantities fuelled after one full tank up to and including the next full tank, divided by the distance driven (or the operating hours). The result is shown in l/100 km, l/h or – for charging – kWh.

- The **first full tank** is only the starting point. A value appears from the second one on (“after two full fills”).
- The refuel editor shows it right away: “Consumption since the last full tank: 6.5 l/100 km over 653 km”.
- **Avg. consumption** in overview and statistics refers to the latest valid intervals, with a range (“last 5 fills 6.0–6.6”). Outliers (more than 30 % deviation) are left out of the range.

Full tank

- 1 Fill up until the nozzle shuts off.
- 2 Add a **Refuel** entry, enter the **Counter reading** and leave **Full tank** switched on.

Partial refuel

If you don't fill up completely, switch off **Full tank**. MaschinenNotes then reports “Partial refuel – consumption is calculated at the next full tank”. The quantity is not lost: it counts in the next interval.

Missed refuel

If you forgot to record a refuel, the next consumption figure would be too low. So switch on **Previous refuel not recorded** in the next entry (charging: **Previous charge not recorded**). MaschinenNotes then calculates no consumption for this interval – from the next full tank on everything is back to normal.

When no consumption appears

Message	Cause and remedy
No earlier full tank yet	A value appears from the second full tank on.
Reading not increasing (distance ≤ 0)	Check the reading – it must be higher than at the previous refuel.
Previous fill missing	A refuel was marked as “not recorded”; calculation resumes from the next full tank.
Implausible consumption (quantity ≤ 0)	Check the quantity.



Market price and savings

If you enter the **Market price per l (optional)** when refueling – manually or via **Get current price** – MaschinenNotes compares your price, e.g. “4 ct below market price – €1.69 saved” or “... above market price – ... paid extra”. The **Last refuel** tile in the overview shows the saving too. The market price is the average of the open filling stations in the last fuel price search.

7 Statistics & fleet

Vehicle overview

The **Overview** shows the key figures of the current year:

- **Costs** of the year compared with the previous year up to the same day ("2% below last year").
- **Avg. consumption** with the range of the latest fills.
- **Last refuel** with the saving compared with the market.
- **Driven** or **Operating hours** this year with a forecast to year end.
- **Costs per month** as bars, split into **Energy**, **Maintenance & care** and **Fixed costs**, with the cost per km or per hour above.
- **Deadlines** (phone: **Coming up next**) and **Recent entries**.

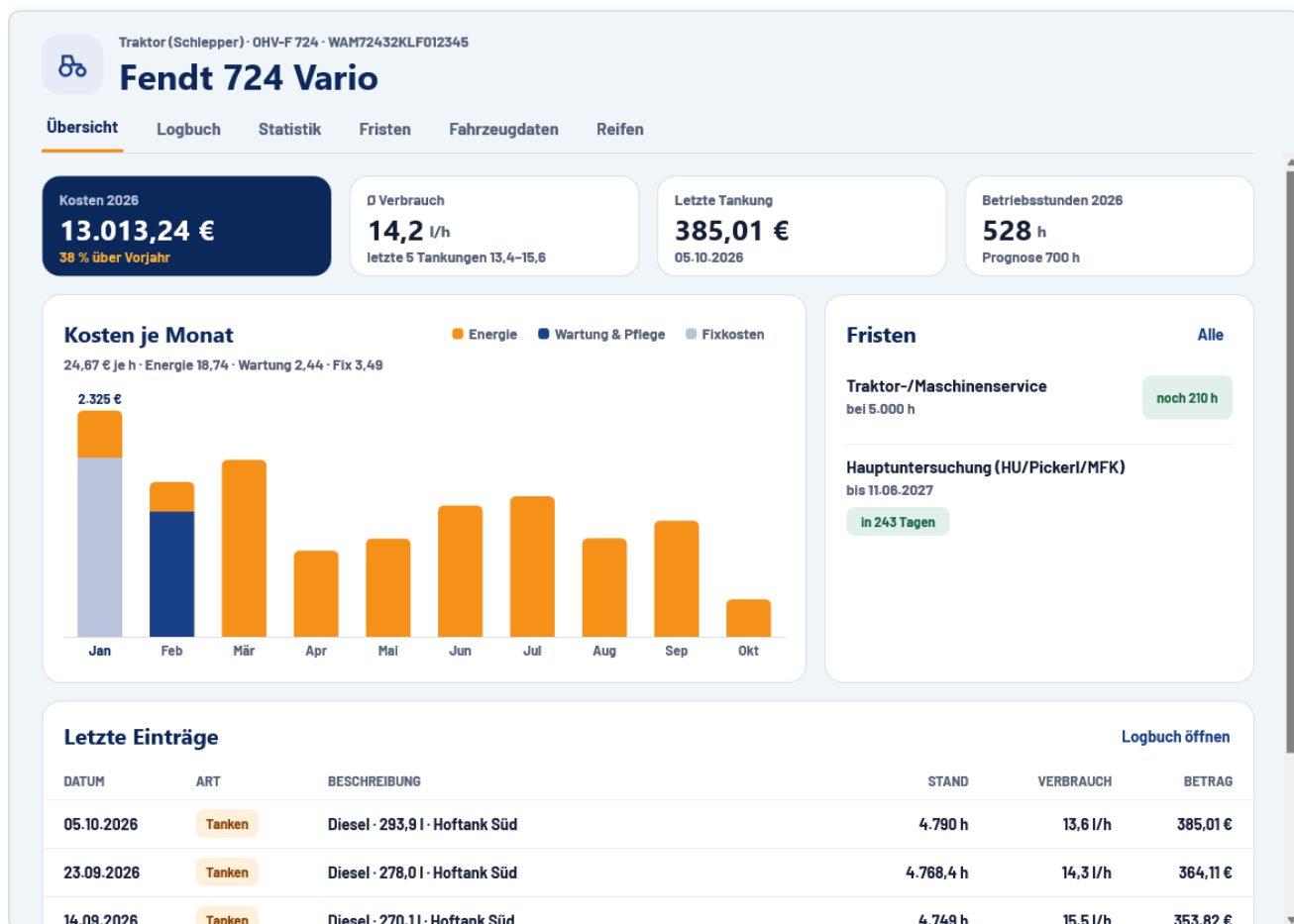


Fig. 9 – Overview of a tractor: consumption in l/h, operating hours and forecast

Figure shows the German interface.

Cost groups

Fixed costs are insurance, tax and financing plus all bookings from recurring costs. **Energy** covers refuels, charging and fuel costs. **Maintenance & care** covers maintenance, repair, tires, fluids, care and inspections. Everything else counts as **Other**.

Statistics

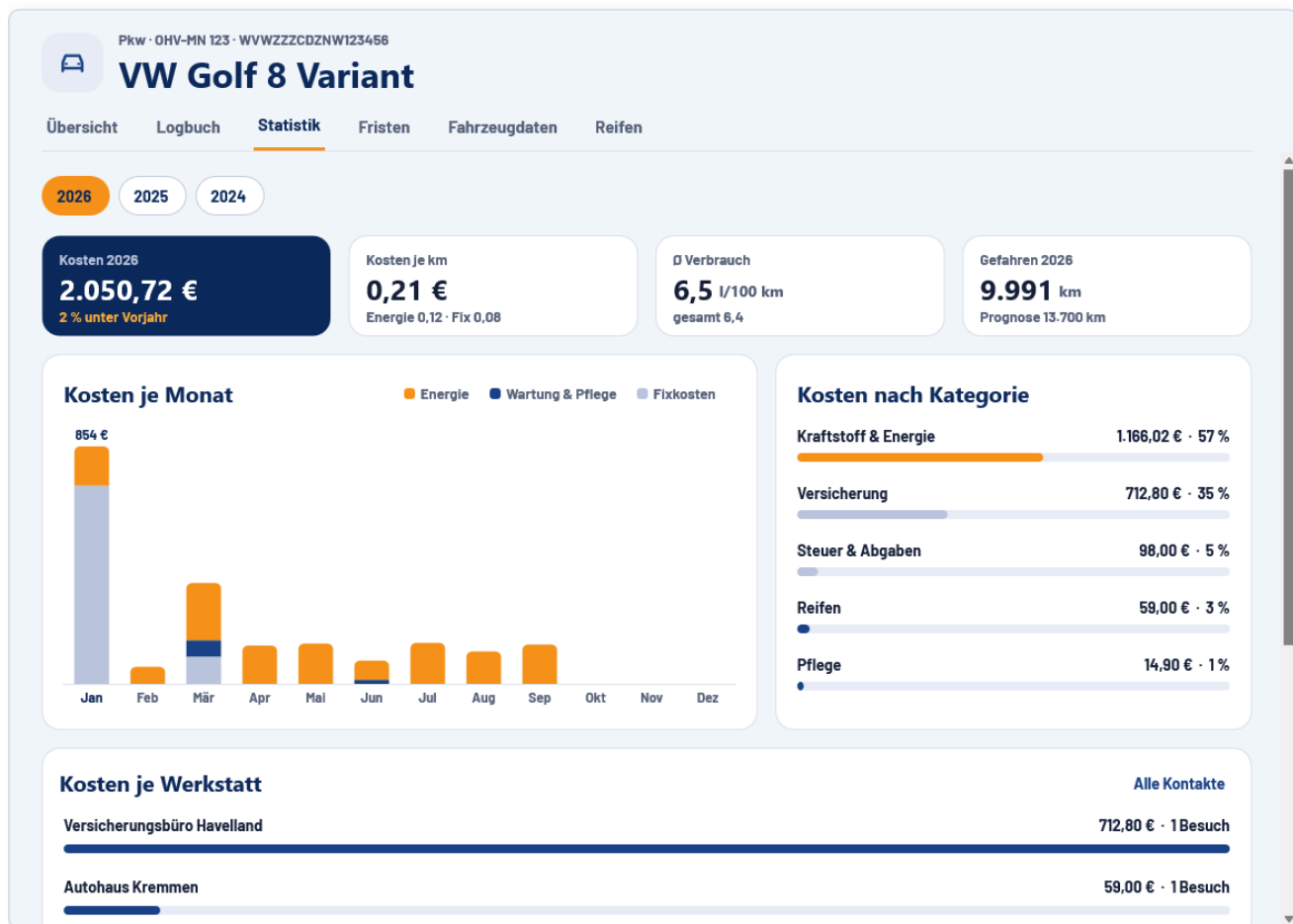


Fig. 10 – Statistics of a car with year selection, costs per month, categories and workshops
Figure shows the German interface.

Choose the **year** at the top (e.g. 2026, 2025, 2024). The statistics show:

- Tiles: costs of the year (with previous-year comparison), **Cost per km** or per hour (split into energy and fixed costs), **Avg. consumption** and distance driven with forecast.
- **Costs per month** by cost group.
- **Costs by category** with amount and share.
- **Costs by workshop** – how much you spent where, with the number of visits.
- **Consumption history** of the latest measurements.
- **Distance per month** or **Operating hours per month**.

As long as no refuels and costs are recorded, it shows “No statistics yet”.

Fleet overview

From **two active vehicles** on, **Fleet** appears at the top of the sidebar (phone: **More** > **Fleet**). The page compares costs, deadlines and consumption across all vehicles for one year:

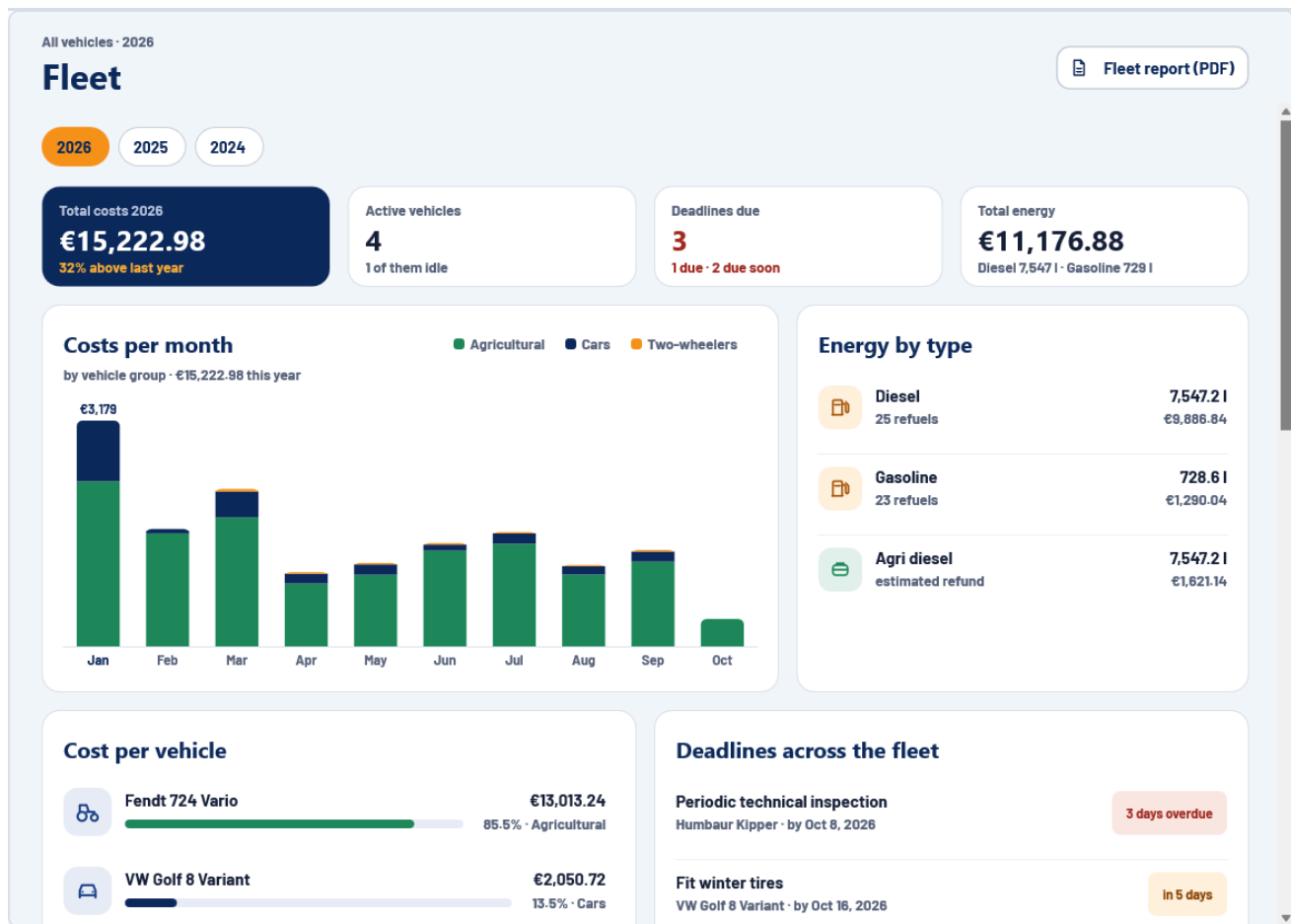


Fig. 11 – Fleet overview across all vehicles

- Tiles: **Total costs** with previous-year comparison, **Active vehicles** (of them idle), **Deadlines due** (overdue/due soon), **Total energy**.
- **Costs per month** by vehicle group.
- **Energy by type** (diesel, gasoline, electricity ... in l, kg or kWh) with the number of refuels; for agri diesel the estimated refund.
- **Cost per vehicle** with share.
- **Cost per unit** – km, miles and operating hours are calculated separately, never added up.
- **Deadlines across the fleet** – all open deadlines of all vehicles.
- Vehicles without an entry for more than 90 days are reported as **idle** ("archive it or add a missing entry?").

Fleet report (PDF) turns this into an annual report (chapter 15).

8 Deadlines & reminders

MaschinenNotes reminds you of the periodic inspection, service, tire changes, insurance and anything else with a date – by date, by reading or both.

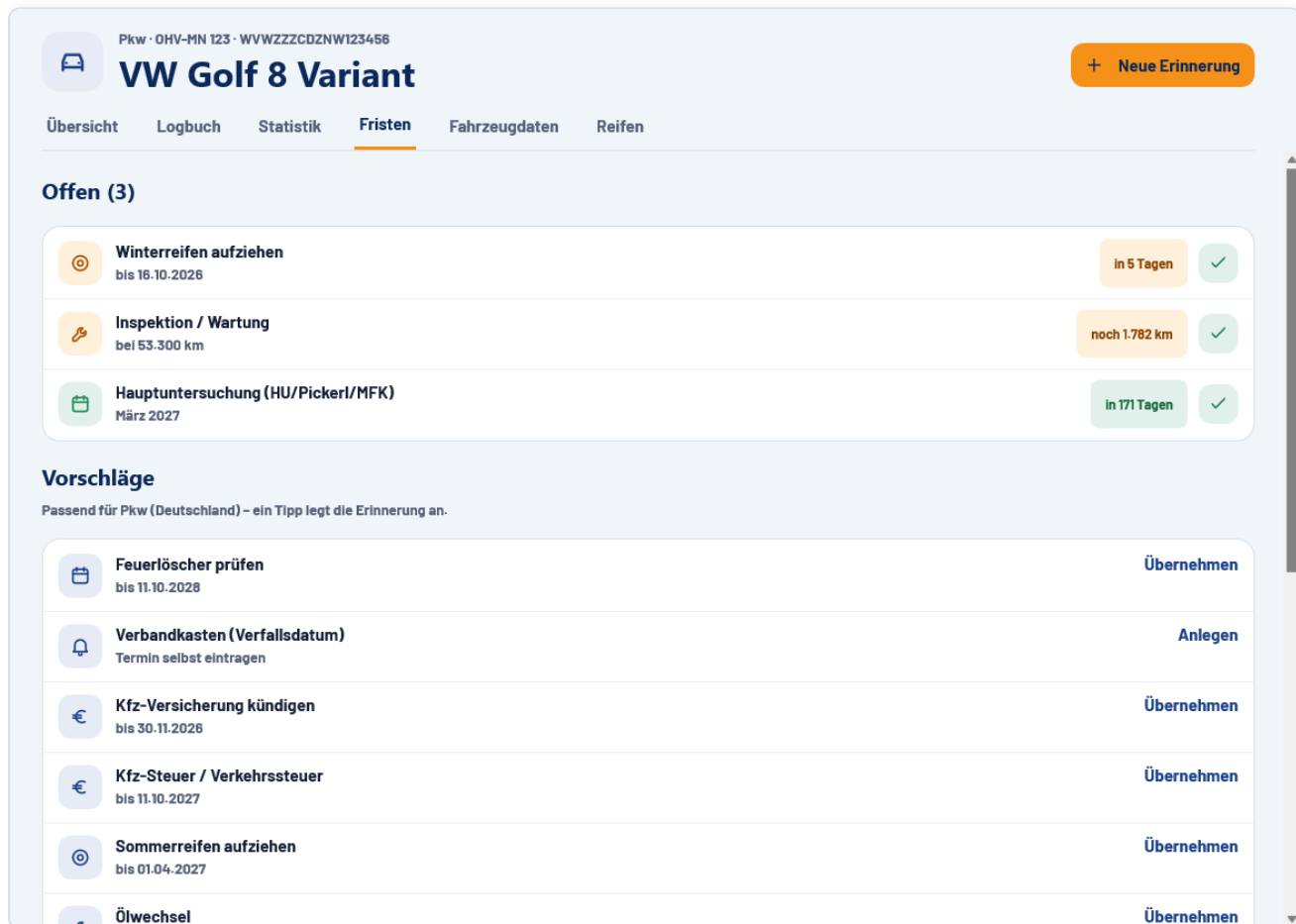


Fig. 12 – Deadlines: open reminders and suggestions for the vehicle
Figure shows the German interface.

The Deadlines page

- **Open** – all open reminders, sorted by urgency. The colored badge shows the status, e.g. **in 5 days**, “1,782 km left” or “3 days overdue”. The check mark on the right completes a reminder.
- **Suggestions** – deadlines suitable for vehicle type and country (“Suitable for Car (Germany) – one tap adds the reminder”). **Apply** creates the reminder with a calculated date; with **Add** (“Enter the date yourself”) you enter the date.
- **Done** – **Show/Hide** displays the completed reminders.
- **Manage series** – recurring costs (chapter 12).

Add a new reminder

- 1 Click **New reminder** (or **New entry** › **Reminder**).



- 2 Choose a **Template** or **Custom reminder** and enter the **Title**.
- 3 Under **Due** choose **Due on a date** and/or **Due at reading** – whichever comes first applies. For the periodic inspection, **Calculate statutory date** computes the date from the vehicle data.
- 4 Under **Repeat & advance warning: Repeat every x months or every x km or h**, plus the warning (**Warn ... days before**, or km/h before). Empty = default: 30 days or 2,000 km / 50 h before.
- 5 Optionally a **Note**, then **Save**.

Completing and repeating

When you complete a reminder (check mark in the list, or **Mark as done** in the editor with **Done on**), MaschinenNotes automatically creates the next date for repeating deadlines: “Done – next reminder created”. For the periodic inspection the completion date counts as the last inspection; reading-based deadlines continue from the current reading.

Templates

The **Deadline templates** catalog contains 29 templates, including:

- Periodic inspection (HU; AT: §57a, CH: MFK)
- Safety inspection (SP)
- Gas system inspection
- Tachograph inspection
- Safety inspection (UVV), Forklift inspection (UVV)
- Fire extinguisher inspection
- First aid kit (expiry date)
- Insurance plate (renewal)
- Cancel insurance (deadline)
- Vehicle tax
- Season start / Season end (seasonal plate)
- Fit winter tires / Fit summer tires
- Oil change due, Service due
- Change brake fluid, Replace timing belt
- A/C service, Chain set / chain care
- Tractor service (operating hours)
- Lease end, Warranty end
- GHG quota (application)
- Agricultural diesel refund (application)
- Vignette Austria, Vignette Switzerland
- Check tire age

Which templates are suggested depends on vehicle type and country. In **Lists** you can hide templates or add your own (chapter 13).

Periodic inspection in Germany, Austria and Switzerland

MaschinenNotes calculates the inspection date from the **first registration** or the **last inspection**, the vehicle type and – where needed – weight and top speed. If both first registration and last inspection are missing, the app reports: “Cannot calculate – first registration or last inspection missing”.

- **Germany:** main inspection (HU) according to StVZO per vehicle type; safety inspection (SP) for heavy trucks, buses and trailers. The deadline ends at the end of the month. With a seasonal plate, a date outside the season moves to the first month of the season.
- **Austria:** §57a inspection (“Pickerl”). From 19 May 2027 the new interval 4-2-2-1 applies (after 4, 6, 8, 10 years, then yearly); older vehicles only switch once the replacement sticker is fitted – vehicle data has the switch **Replacement sticker fitted** for this.



- **Switzerland:** MFK inspection. Emergency vehicles follow special rules per canton.

No guarantee

Deadlines are calculated to the best of our knowledge. The registration document, the inspection sticker and the inspection body are authoritative. Where data is missing, MaschinenNotes shows a note instead of a made-up certainty.

Notifications

For each open reminder **with a date** there are up to two notifications, each at 9:00: on the **warning day** (e.g. "Main inspection for Fendt 724 Vario due in 30 days") and on the **due date**. Reminders due only by reading do not create notifications.

- Switch on and off: **Settings** › **Notifications** › **Reminders as notifications**. **Send test notification** checks that everything arrives.
- **Windows:** notifications appear while the app is open; missed ones are shown at the next start.
- **Android/iOS:** the app schedules the notifications at start. If notifications are blocked, allow them for MaschinenNotes in the system settings.

9 Tires

On the **Tires** tab you manage summer, winter and all-season tires as sets – with tread depth per wheel, age, mileage, costs and storage location.

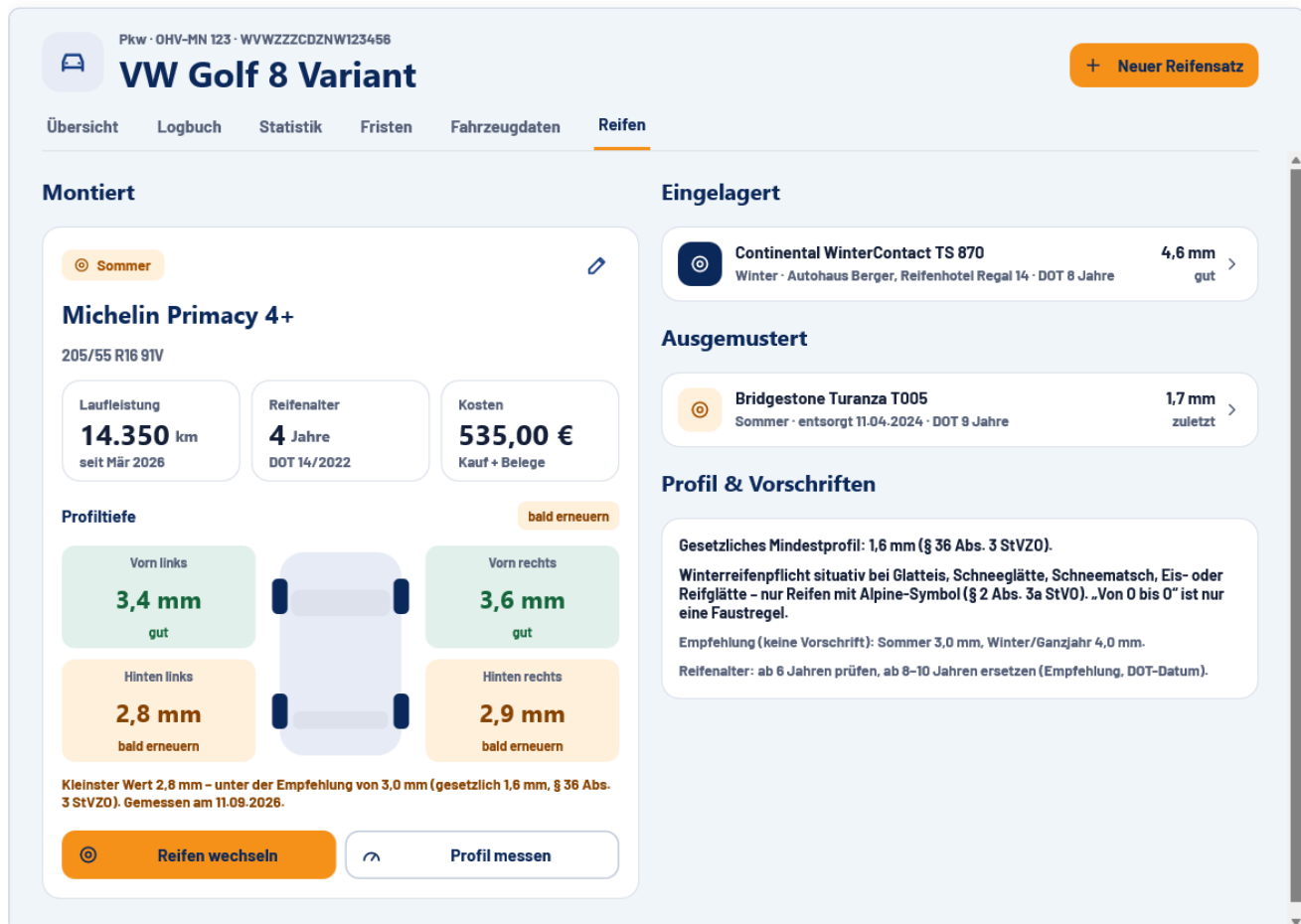


Fig. 13 – Tires: fitted set with tread depth per wheel, stored and retired sets
Figure shows the German interface.

Add a tire set

- 1 Open the **Tires** tab and click **New tire set**.
- 2 Choose the **Type** (summer, winter, all-season, studded, agricultural, off-road, industrial) and enter **Tire manufacturer**, **Model**, **Size** (e.g. 205/55 R16 91H) and **DOT number**.
- 3 Optional: **Purchase date**, **Purchase price (set)**, **Storage location** (e.g. dealer tire hotel), **Note** and **Photos** (sidewall with DOT number, rims, storage receipt).
- 4 If the set is on the vehicle right now, switch on **Currently fitted** – MaschinenNotes records a fitting with today's date and the last reading.

**DOT number**

The last 4 digits on the sidewall are week and year of manufacture, e.g. 2319 = week 23/2019. MaschinenNotes derives the tire age from it.

The Tires page

- **Fitted:** the current set with **Mileage**, **Tire age**, **Costs** (purchase + receipts) and the **Tread depth** per wheel (**Front left**, **Front right**, **Rear left**, **Rear right**; two-wheelers **Front wheel**/**Rear wheel**).
- Condition per wheel: **good**, **replace soon** or **too low** – the lowest value determines the condition of the set.
- **Stored**, **Other sets** and **Retired**.
- **Tread & regulations** – the rules for your country (see below).

Tire change

Change tires guides you through the change in a few steps:



The previously fitted set is removed; under **Storage of the removed set** you note where it is stored.

Save as logbook entry creates a “Tires” entry with date, reading and **Wheel change cost (gross)**, which counts towards the cost of the set.

Events

Record event captures everything else: **Fitting**, **Removal**, **Tread check (Measure tread)**, **Storage**, **Disposal** (the set then appears under **Retired**) and **Other** (repair, balancing, valves ...). The **History** lists all events of a set.

Tread depth and regulations

Country	Rule (as shown in the app)
Germany	Legal minimum tread 1.6 mm (§ 36 StVZO). Winter tires are required in wintry conditions (black ice, snow, slush, frost) – only tires with the alpine symbol (§ 2 (3a) StVO). “October to Easter” is just a rule of thumb.
Austria	1.6 mm; winter tires (incl. all-season M+S) only count as winter tires from 4 mm (radial) (§ 4 KDV). Winter equipment from 1 Nov to 15 Apr in wintry conditions (§ 102 (8a) KFG).
Switzerland	1.6 mm. No winter tire obligation – but the vehicle must always be under control (Art. 31 SVG).



Recommendation (not a rule): summer 3 mm, winter/all-season 4 mm. **Tire age**: check closely from 6 years, replace at 8–10 years (industry recommendation). For agricultural vehicles and machines there is no fixed legal minimum tread depth – values are shown only.

Note

Boats, generators and tracked vehicles have no tire management. Record their costs in the logbook as usual.

10 Farm tank & agri diesel

For farms in Germany: keep track of the farm tank stock and determine the estimated agricultural diesel refund per year.

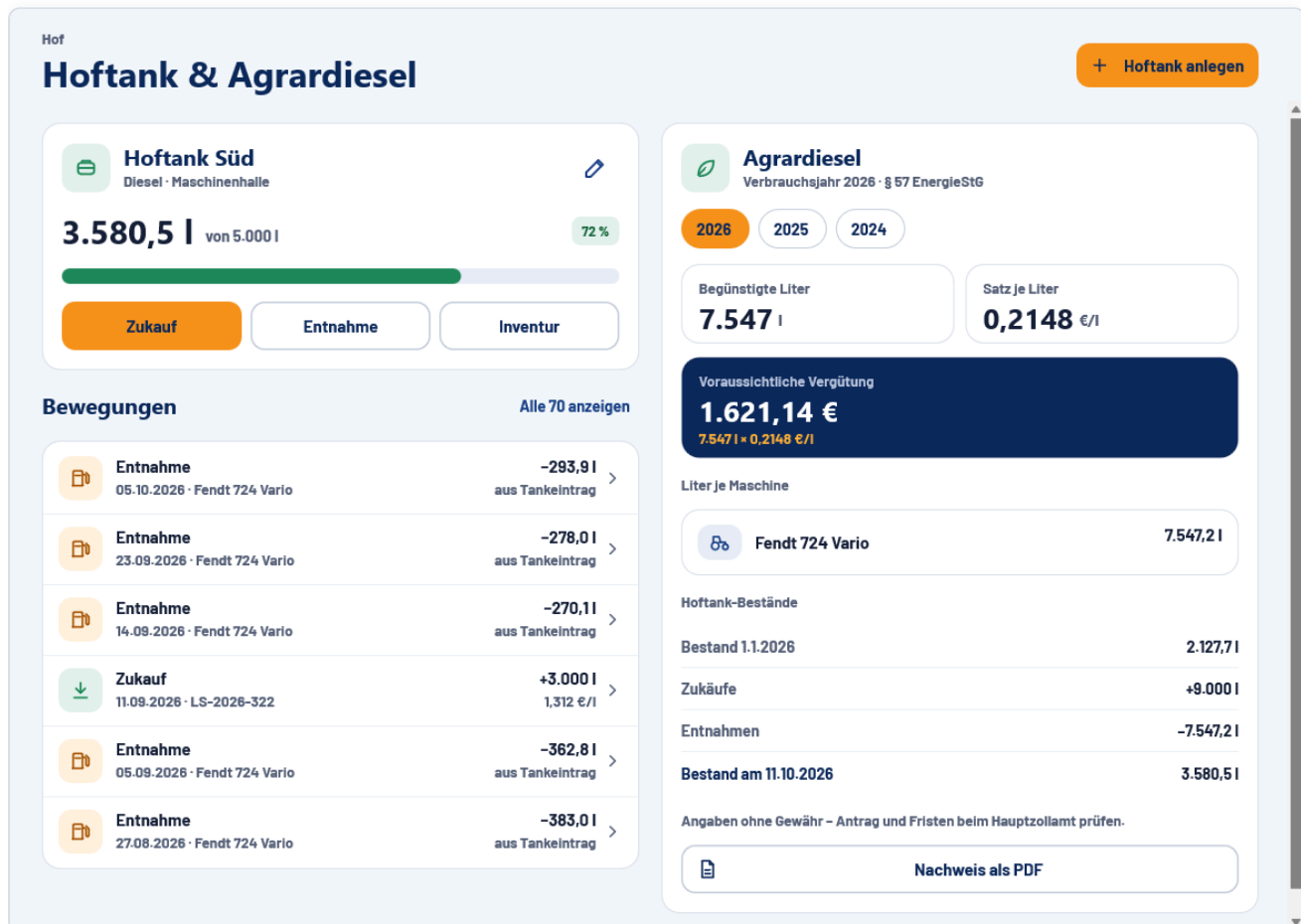


Fig. 14 – Farm tank with level and movements, agri diesel report on the right
Figure shows the German interface.

Add a farm tank

- 1 Open **Farm tank & agri diesel** (sidebar under **Farm**; phone: **More**) and click **Add farm tank**.
- 2 Enter **Name** (e.g. "farm tank south"), **Energy / fuel**, **Capacity** and **Location**, then save.
- 3 Record a first **Stocktake** with the measured stock.

Movements: purchase, withdrawal, stocktake

Movement	Meaning	Fields
Purchase	Delivery into the farm tank – increases the stock.	Date, Quantity, Price per liter, Delivery note, Note

Movement	Meaning	Fields
Withdrawal	Withdrawal for a machine – counts for the agri diesel claim.	Date, Quantity, Vehicle / machine, Note
Stocktake	Measured stock – sets the stock to this value.	Date, Measured stock, Note

The stock is derived from stocktakes, purchases and withdrawals. **Fill-ups from the farm tank** (chosen under **Farm tank** in the refuel entry) book the withdrawal automatically; they are marked **from fuel entry** and edited there (**Open fuel entry**). If the level drops below 20 %, MaschinenNotes suggests planning a purchase.

Agricultural diesel refund

The **Agri diesel** report is only available with **Germany** as country. For each **consumption year** (§ 57 EnergieStG) it shows:

- **Eligible liters**, **Rate per liter** and the **Estimated refund**,
- **Liters per machine** and the **Farm tank stock** (stock 1 Jan, purchases, withdrawals, stock 31 Dec).

Counted are farm tank withdrawals for a vehicle plus diesel fill-ups at public filling stations of vehicles that have **Vehicle is eligible for agricultural diesel** switched on in their vehicle data. Eligible fuels are diesel and HVO, from 2026 also vegetable oil. Fill-ups from the farm tank count only once (via the withdrawal). Below €50 there is no payout.

Period (date of withdrawal or fill-up)	Rate per liter
until 29 Feb 2024	€0.21480
1 Mar 2024 – 31 Dec 2024	€0.12888
2025	€0.06444
from 2026	€0.21480

Rates according to zoll.de as of October 2026, as stored in the app.

Statement as PDF gives you a summary for your records: liters per machine, farm tank stock and movements, rate and estimated refund. The statement does not reproduce an official form.

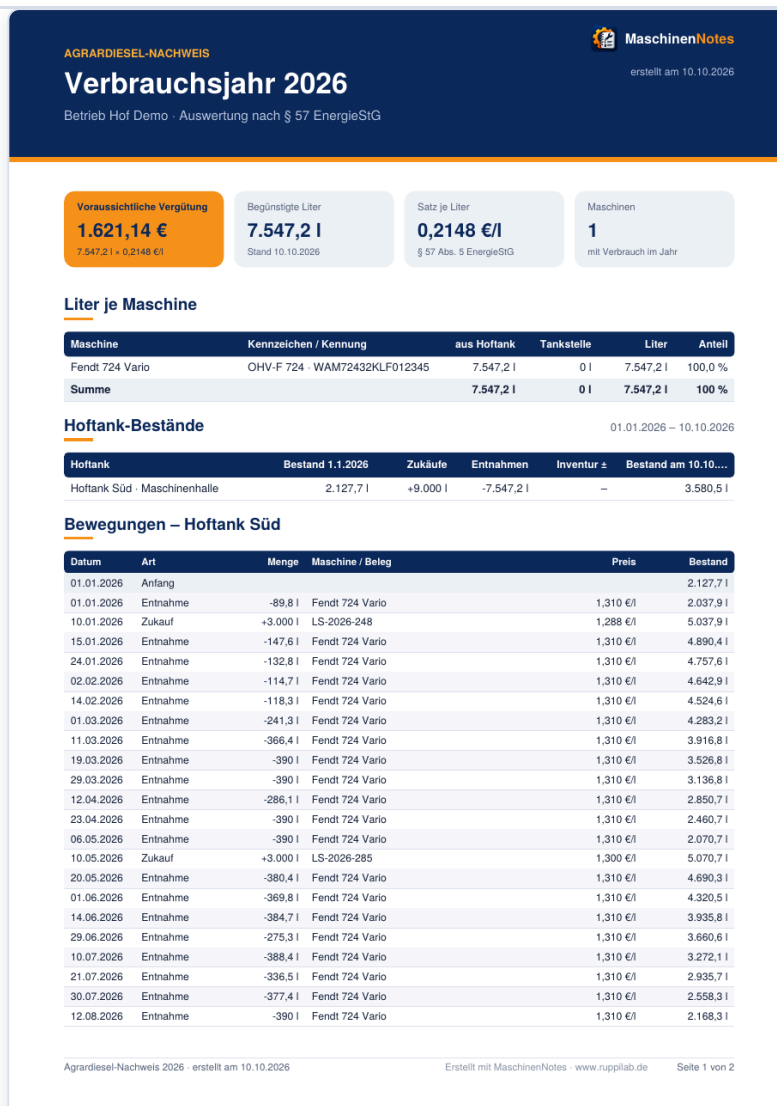


Fig. 15 – Agri diesel statement (PDF), first page (sample data)
Figure shows a German report.

No guarantee

All agri diesel information comes without guarantee. Check the application and deadlines with the main customs office (Hauptzollamt); the official rules are authoritative.

11 Workshops & contacts

Add your workshop, dealer, inspection station or insurer once. Then you can link them in entries, call them directly and see what you spent where.

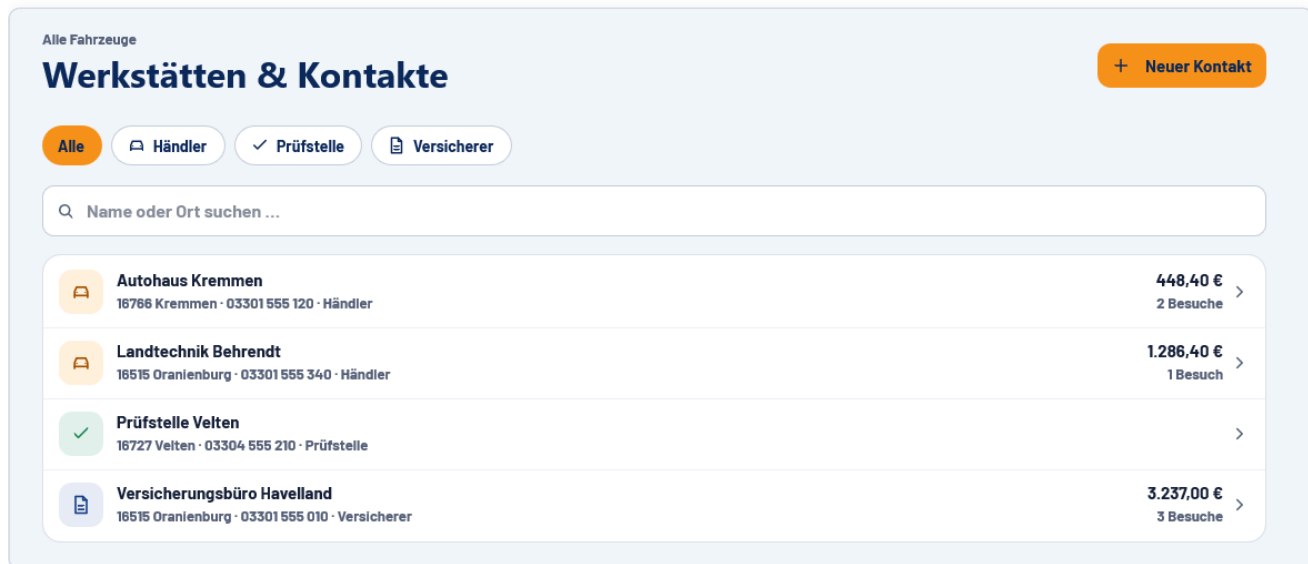


Fig. 16 – Workshops & contacts with costs and visits (fictitious sample data)
Figure shows the German interface.

Add a contact

- 1 Open **Workshops & contacts** and click **New contact**.
- 2 Choose the **Type**: workshop, dealer, inspection station, insurer, filling station, manufacturer or other.
- 3 Enter **Name**, **Customer number**, **Address** (street and number, postcode, town) and **Contact details** (phone, email, website) and save.

If the name already exists with the same postcode, MaschinenNotes points it out – so no duplicates are created.

Using contacts

- At the top you filter by type (e.g. **All**, dealer, inspection station, insurer) or search with **Search name or town**
- In a contact: **Call**, **Directions** (opens the map), open email and website, save as **vCard**.
- **Visits**: all entries with this contact and the total cost.
- In an entry, choose the contact under **Workshop / provider** (with **Recently used** at the top). In the vehicle data you link insurer and seller.
- Statistics show **Costs by workshop**.

If you delete a contact, links in entries and vehicles are removed; the name is kept in the entry titles.

12 Recurring costs

Add insurance, vehicle tax, leasing rate or parking rent once – MaschinenNotes then books them automatically as a cost entry on every due date.

Add a series

- 1 Open the **Deadlines** tab and there **Manage series** ("Book insurance, tax, leasing ... automatically").
- 2 Click **New series**.
- 3 Under **Costs: Title** (e.g. "car insurance, leasing rate"), **Cost category**, **Payment method**, **Amount (gross)** and **VAT rate**.
- 4 Under **Schedule: Repeat every** n with **Unit** (days, weeks, months, years), **First due date** and optionally **End (optional)**.
- 5 Optionally a **Note** – it is copied into every booked entry (e.g. contract number). Then **Save**.

Booking retroactively

If the first due date lies in the past, MaschinenNotes books all dates up to today when you save ("Saving books 3 dates up to today"). After that each further entry is created automatically on its due date – the next time the app starts.

Overview and changes

The **Recurring costs** page shows **Active series** with totals **Per year** and **Per month** and the next due date of each series. **Already booked** shows how many entries from the series are in the logbook. Changes apply to future bookings.

When deleting a series you decide: **Delete series, keep ... booked entries** or **Delete series and ... booked entries**. Ended series appear under **Ended**.

Bookings from series always count as **fixed costs** in the statistics.

13 Customizing the lists

You can adapt all lists of the app – vehicle types, makes, cost categories, service items, deadline templates and more – to your business: hide or rename entries, mark favorites or defaults and add your own entries.

The 16 catalogs

Auswahllisten · 7 Gruppen · 37 Einträge · 0 eigene · 0 ausgeblendet

Fahrzeugarten

16 KATALOGE

- Fahrzeugarten** 44
- Marken / Hersteller 417
- Energie / Kraftstoffarten 14
- Kostenarten 151
- Wartungspositionen 181
- Betriebsstoffe 45
- Fristenvorlagen 29
- Einsatzarten 12
- Reifenarten 7
- Zahlungsarten 6
- Dokumentarten 10
- Kennzeichenarten 10
- Aufbauarten 22
- Kontaktarten 7
- EG-Fahrzeugklassen 35
- Schadstoffklassen 24

Ansicht für **Für alle** Nur Fahrzeugart: Traktor (Schlepper) Nur dieses Fahrzeug (Fendt 724 Vario)

Importieren Exportieren + Eigener Eintrag

Suche In „Fahrzeugarten“ suchen ☒ Ausgeblendete zeigen

SICHTBAR	NAME	GILT FÜR	QUELLE	FAVORIT
☒	> Pkw & Wohnmobil	alle	System	☆
☒	> Zwei- & Dreiräder, Kleinfahrzeuge	alle	System	☆
☒	> Nutzfahrzeuge & Busse	alle	System	☆
☒	> Anhänger	alle	System	☆
☒	> Land- & Forstwirtschaft	alle	System	☆
☒	> Bau- & Arbeitsmaschinen	alle	System	☆
☒	> Sonstiges	alle	System	☆

Fig. 17 – Lists: catalogs on the left, entries of the selected catalog in the middle
Figure shows the German interface.

Catalog	Entries	Catalog	Entries
Vehicle types	44	Usage types	12
Makes / manufacturers	417	Tire types	7
Energy / fuel types	14	Payment methods	6
Cost categories	151	Document types	10
Service items	181	Plate kinds	10
Fluids & lubricants	45	Body types	22
Deadline templates	29	Contact kinds	7

Catalog	Entries	Catalog	Entries
EU vehicle categories / Emission standards			35 / 24

Together these are more than 1,000 system entries. System entries are maintained with updates; your adjustments and own entries are kept.

The editor

The screenshot shows the 'Wartungspositionen' (Maintenance Positions) section of the MaschinenNotes application. The interface is in German. At the top, there's a header with 'Auswahllisten · 12 Gruppen · 169 Einträge · 0 eigene · 0 ausgeblendet'. Below this is a title 'Wartungspositionen' and buttons for 'Importieren', 'Exportieren', and 'Eigener Eintrag'. A search bar is present with the text 'In „Wartungspositionen“ suchen' and a checkbox for 'Ausgeblendete zeigen'. The main list has columns: 'SICHTBAR' (Visible), 'NAME', 'QUELLE' (Source), and 'FAVORIT' (Favorite). The list contains several entries related to 'Motor & Öl', with 'Motoröl wechseln' selected. On the right, a modal window for editing 'Motoröl wechseln' is open, showing fields for 'Eigener Anzeigename' (Own display name) and 'Motoröl wechseln', and checkboxes for 'Sichtbar' (Visible), 'Favorit' (Favorite), and 'Als Vorauswahl (Standard)' (As pre-selection (Standard)).

Fig. 18 – List editor: scope (top) and editing an entry (right)
Figure shows the German interface.

On the desktop the page has three columns: the catalogs with their counts on the left, the entries of the selected catalog in the middle (as a tree, groups expandable), and on the right the editor for the selected entry. On the phone you tap from catalog to list to entry.

The list shows the columns **Visible** (eye), **Name**, **Applies to**, **Source** (**System** or **Own**) and **Favorite** (star). Eye and star can be clicked directly in the row. The search field (**Ctrl** + **F**) finds entries in large catalogs; **Show hidden** also lists hidden entries.

Settings per entry

Setting	Effect
Own display name	Shows the entry under your name (the original stays visible: "Original: ...").



Setting	Effect
Visible	Switched off: otherwise not offered in pickers.
Favorite	Shown at the top of pickers.
Preselected (default)	Suggested for new entries. Each catalog and scope has exactly one default.

Apply saves the change. **Reset** removes display name, visibility, favorite and default for the selected scope.

Scope: for all, one vehicle type or one vehicle

Under **View for** at the top you choose for whom your changes apply:

- **For all** – applies to all vehicles.
- **Only vehicle type: ...** – applies only to the vehicle type of the current vehicle, e.g. all tractors.
- **Only this vehicle (...)** – applies only to the current vehicle.

List and settings always refer to the selected scope. If settings exist on several levels, the most specific one wins: **vehicle before vehicle type before “for all”**.

Example

You want “Tractor service (operating hours)” as the default for the tractor, but not for the car? Select the tractor, set **View for** to **Only vehicle type: Tractor** and switch on **Preselected (default)** for the entry.

Own entries

- 1 Select the catalog and click **Own entry**.
- 2 Enter **Name (German)** and – optional, otherwise as German – **Name (English)**.
- 3 In catalogs with groups choose the **Parent entry** (or – **top level** –).
- 4 Under **Applies to** you restrict the entry to vehicle groups – with none selected it applies to all vehicles.
- 5 Save with **Apply**.

Own entries can be removed with **Delete entry**; sub-entries are deleted too.

Import and export

Export writes your own entries and all adjustments as a JSON file into the data folder

(`Auswahllisten_<date>.json`). **Import** offers the JSON files in the data folder for selection. This way you can transfer your lists to a computer without sync, for example. With sync set up (chapter 21), your own entries and adjustments reach all devices automatically.

14 Fuel prices

Current prices of nearby filling stations – live via the **Tankstellen-Ampel.de API** (data from the German Market Transparency Unit for Fuels, MTS-K), with traffic light, opening hours, map, favorites and price alerts. No sign-up and no key of your own needed.

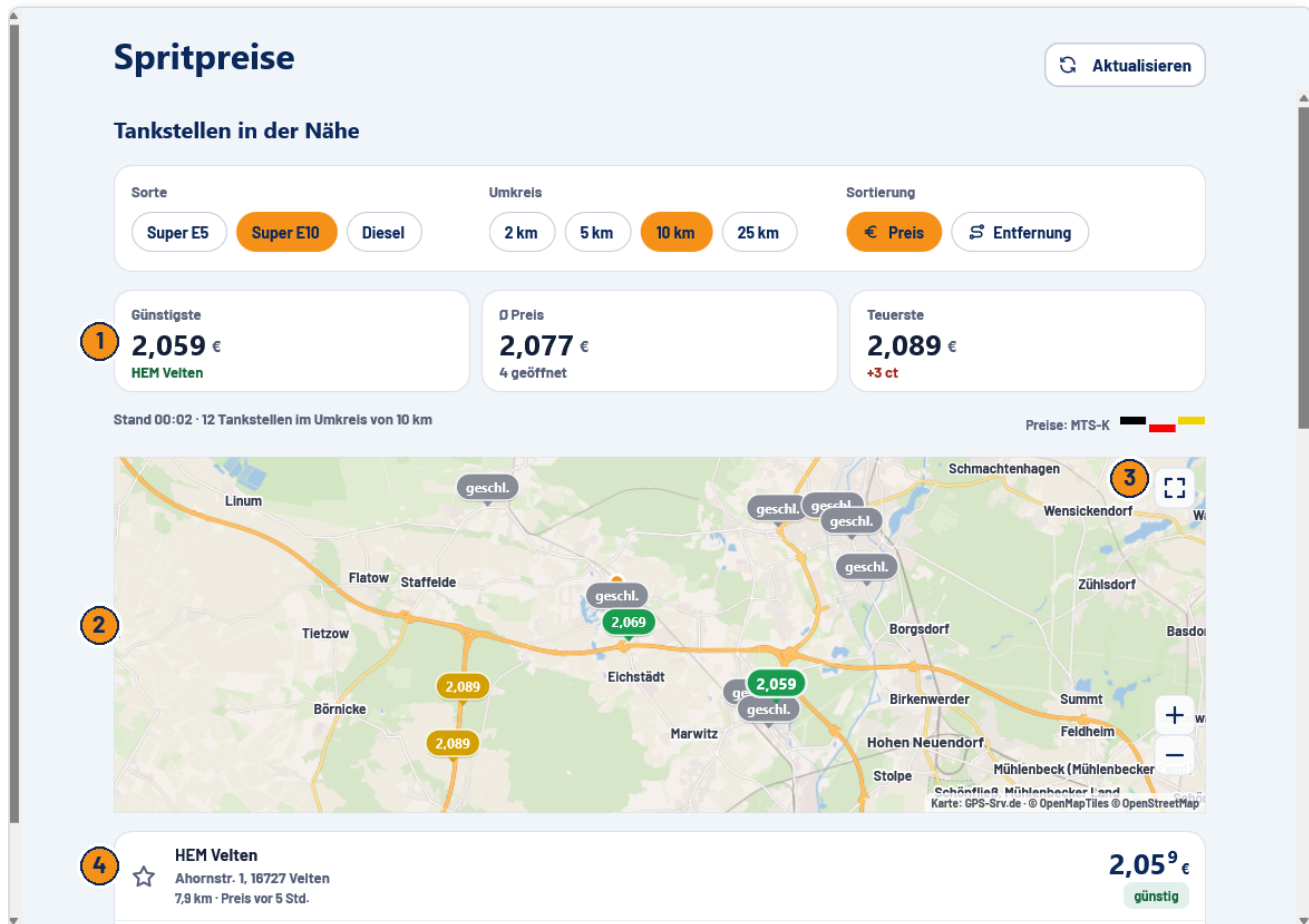


Fig. 19 – Fuel prices within 10 km of Oberkrämer (real prices from 12 Oct 2026, 0:02 am – many stations are closed at night); the MTS-K mark is shown above the map on the right

Figure shows the German interface.

- 1** cheapest, average and most expensive price of the open stations
- 2** map with price pills in traffic-light colors, grey = closed, orange dot = your location
- 3** map in full screen
- 4** list of filling stations with the price as on the pump (2.05⁹)

Nearby filling stations

- 1** Open **Fuel prices**. On the phone MaschinenNotes determines your location (permission “while using the app”); on the computer you set the location in Settings – easiest with **Choose on map** (see below).
- 2** Choose the **fuel grade** (Super E5, Super E10, Diesel), the **radius** (2, 5, 10 or 25 km) and the **sort order** (**price** or **distance**).

3

At the top you see the cheapest, average and most expensive price, below the map and the list with price, distance, age of the price and traffic light.

The traffic light works like the Tankstellen-Ampel: **cheap** (green) up to 1 cent above the cheapest price of an open station nearby, **average** (yellow) up to 3 cents above, **expensive** (red) anything above. **Closed** stations show no price but “closed” and – if known – “Opens tomorrow 06:00”; shortly before closing it reads “Closes in 20 min”. If a station does not sell the chosen grade, it shows e.g. “no E10”.

The map

The map comes from **RuppiLab's own map server** (GPS-Srv.de, map data © OpenStreetMap contributors, © OpenMapTiles) – **no Google or Apple maps** are used and no data is sent to third-party map services. Map areas already loaded stay cached for 14 days.

- **Tap/click a price pill** to open the filling station.
- **+** and **–** zoom; on the computer also **Ctrl + mouse wheel** (without Ctrl the page scrolls) and dragging with the mouse.
- The icon at the top right opens the map in **full screen** – there you can pan and zoom freely, on the phone with two fingers as well; the **✕** at the top left closes it.

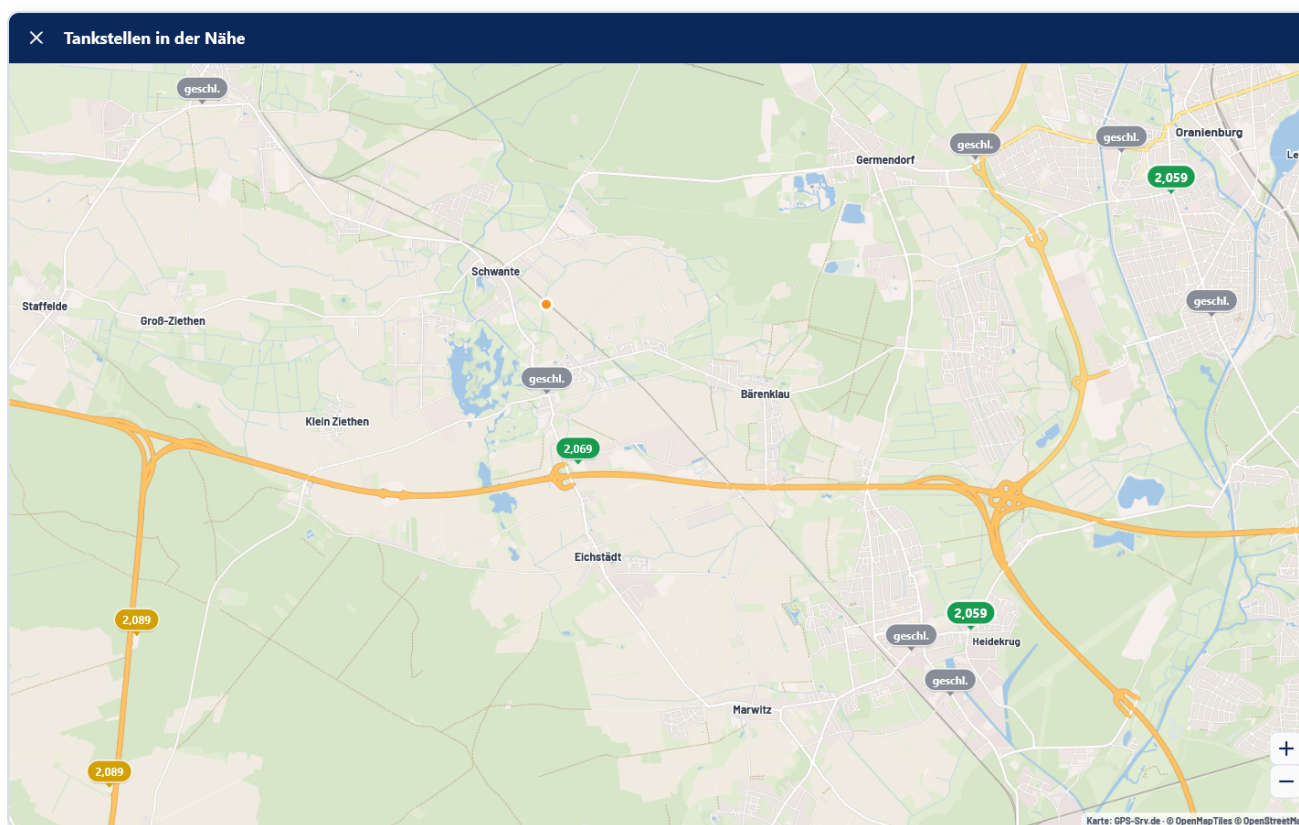


Fig. 20 – Map in full screen
Figure shows the German interface.

Filling station, favorites and “Refuel here”

Clicking a filling station shows address, distance, opening hours, a map, all prices with traffic light and the comparison with the market (“ct below market”). There you can:

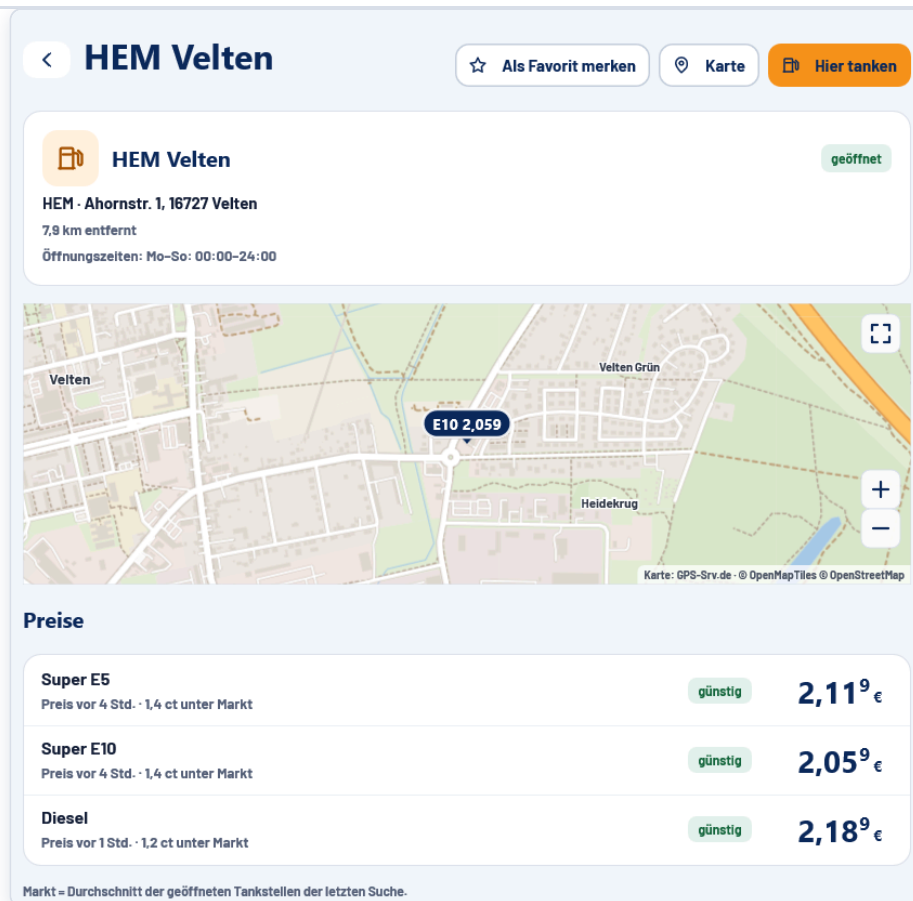


Fig. 21 – Filling station with map and all grades
Figure shows the German interface.

- **Save as favorite** – favorites appear with their current price at the top of the fuel prices.
- **Map** or **Large map** – the station on the map in full screen.
- **Refuel here** – creates a refuel entry with this station and its current price.
- **Report an error** – report wrong data to the Market Transparency Unit (see below).

Source of the prices: Market Transparency Unit (MTS-K)

All prices come from the **Market Transparency Unit for Fuels (MTS-K) of the German Federal Cartel Office**, to which filling stations in Germany must report every price change; MaschinenNotes retrieves them via the Tankstellen-Ampel.de API. The MTS-K mark (black-red-gold) is therefore shown next to the timestamp above the map, on every filling station page and at the bottom as the source note.

Report an error

If a price, the opening status, name, address or location of a station is wrong, report it straight from the app: open the station › **Something wrong?** › **Report an error**.



Fig. 22 – Report an error: wrong price Super E10
Figure shows the German interface.

- 1 Under **What is wrong?** choose the type: wrongly shown as open/closed, wrong price (E5, E10, Diesel), wrong name, brand, street, house number, postcode or town, wrong position on the map.
- 2 Depending on the type, enter the **correct value**: the price at the pump (e.g. €2.039/l), the correct name or address, or the correct location – easiest with **Choose on map** and a click on the right spot. For the opening status you can add a description (at most 1,024 characters).
- 3 **Send report.** The report is collected and passed on to the MTS-K, which checks the station's data. Only the details and the time are sent – no name, no account. You can report the same error of a station once a day.

Price alert

For favorites, set the **Fuel grade for the price alert** and **Alert at or below** (e.g. €1.699) under **Favorite & price alert** and click **Save alert**. Prices are checked when you open the fuel prices and every 30 minutes while the app is open; you get at most one notification per filling station and day. Switch on or off: **Price alert as notification** in Settings.

Fuel price settings

Under **Settings** › **Fuel prices**:

- **Data source: Tankstellen-Ampel.de API** – built in, nothing to enter. **Test connection** checks the connection.
- **Show sample prices** – realistic sample prices (marked as such) instead of real ones, e.g. for demonstrations. Default: off.
- **Location for fuel prices** (computer): **Choose on map** – click on the map, done; or enter **Latitude** and **Longitude**. On the phone the location is determined automatically.



Good to know

The Market Transparency Unit only reports prices of **German** filling stations. All prices without guarantee – the price at the pump is what counts.

15 PDF reports & CSV export

Vehicle file (PDF)

In **Vehicle data**, **Vehicle file (PDF)** creates a report on the vehicle – ideal for selling, the workshop or your records. It contains:

- a header in the MaschinenNotes colors with plate and – if available – the cover photo,
- profile and key figures of the current year, cost split and costs by category,
- open deadlines with status,
- master data (only filled fields; in German with the registration certificate field codes),
- the logbook as a table with totals.

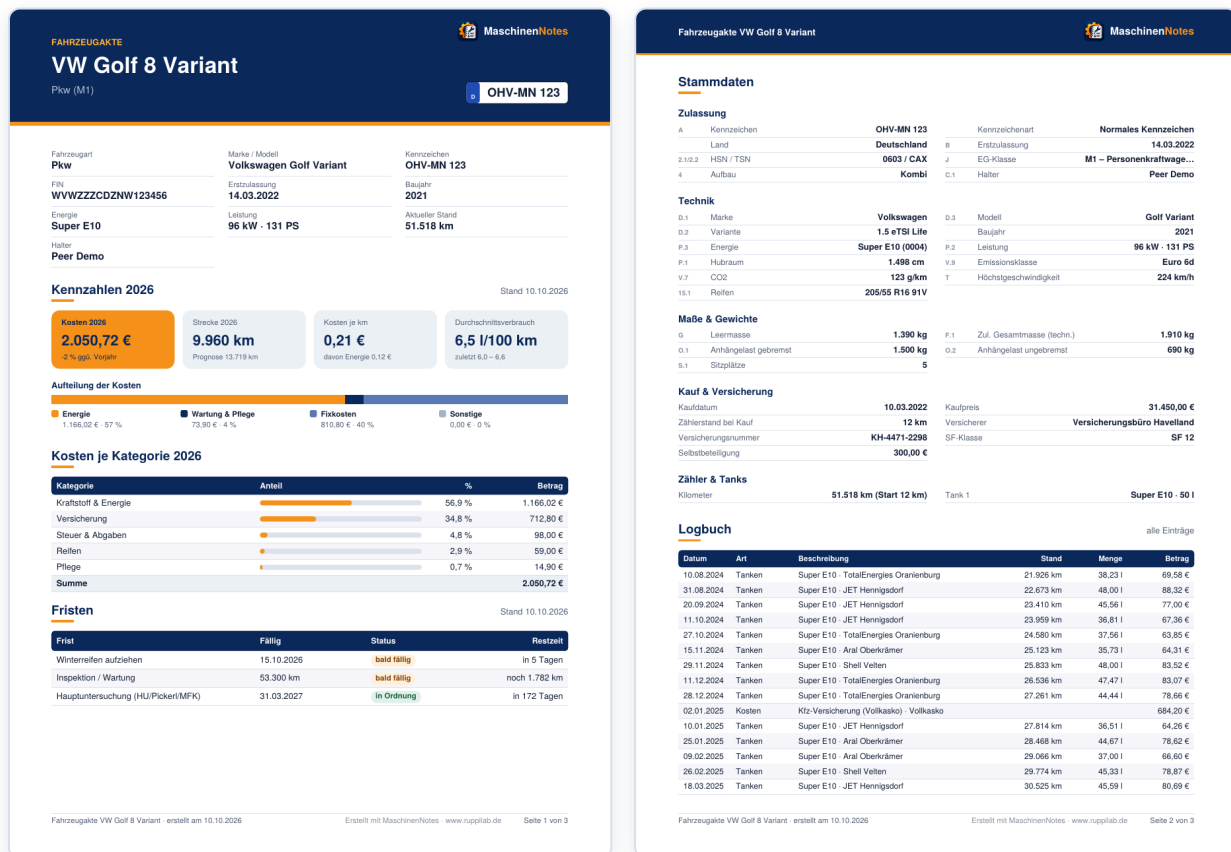


Fig. 23 – Vehicle file (PDF) of a car, pages 1 and 2 (sample data)

Figure shows a German report.

Agri diesel statement and fleet report

- **Statement as PDF** on the **Farm tank & agri diesel** page (chapter 10).
- **Fleet report (PDF)** on the **Fleet** page: annual report on all active vehicles with total costs, cost per vehicle, per vehicle group and per month, cost per unit (separately for km, miles and operating hours), energy by type, all open deadlines and idle vehicles.



Fig. 24 – Fleet report (PDF), first page (sample data)
Figure shows a German report.

Each page carries a footer with the creation date and the page number. Reports are created in the app language and saved in the **Berichte** folder inside the data folder. On the desktop MaschinenNotes then opens the PDF; on the phone the share dialog appears.

CSV export

Under **Settings** > **Data, Export entries as CSV** exports all entries of the selected vehicle to a CSV file in the data folder (vehicle name with date). The format is made for Excel with German settings: UTF-8, semicolon as delimiter, decimal comma, dates as DD.MM.YYYY.

License required

On the desktop, all exports (PDF, CSV, backup export) require a license after the trial period (chapter 20).

16 Importing data

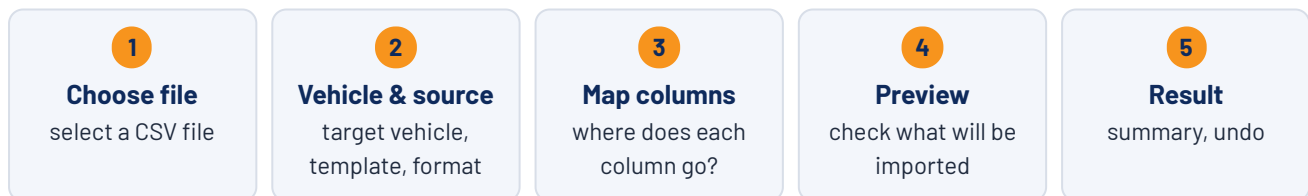
Import fill-ups and costs from Spritmonitor.de, Fuelio, Drivenote or any other app. Export your data there as a CSV file – MaschinenNotes detects the delimiter, date and number format and suggests the column mapping.

Supported formats

Source	File
Spritmonitor.de	Fill-ups and costs (CSV export); full, partial and first fill-ups are taken over.
Fuelio	CSV backup with costs and categories; fuel types are mapped.
Drivenote	CSV export – check the preview (the format is not publicly documented).
Other apps and spreadsheets	CSV with date and amount or quantity – including MaschinenNotes' own CSV export.

The import wizard

Start the import via **Bring data from another app** (Welcome page), **Settings** > **Data** > **Import data**, or **Import data** in the vehicle data.



- 1 Choose file:** Choose **CSV file ...** (desktop: file dialog; phone: Files app). Alternatively put the file (.csv or .txt) into the **Import** folder in the data folder; it then appears under **Files in the import folder**. On Android you can also **share** a CSV file from another app to MaschinenNotes ("Share" or "Open with") – the import then starts automatically.
- 2 Vehicle & source:** choose the **Target vehicle** or **Create new vehicle** (with name and vehicle type; counter and tank follow the type). **Source and format** shows what was detected (**Template**, **Encoding**, **Delimiter**, **Decimal separator**, **Date format**) and lets you correct it – e.g. **Day first (DD.MM.YYYY)** or **Month first (MM/DD/YYYY)**.
- 3 Map columns:** choose where each column of the file belongs. Leave columns you don't need on "do not import". The date is required, plus the amount (costs) or the quantity (fill-ups). Under **Row type** you set whether rows are fill-ups, costs or **Automatic (with quantity = fill-up)**.
- 4 Preview:** you see how many rows **Will be imported**, are **Skipped** (e.g. duplicates) or **Faulty** – with line number and reason.
- 5 Result:** "Import complete – ... entries were imported from ...". From here: **Go to logbook** or **Import another file**.



Duplicates

Entries that already exist for the target vehicle (same date, reading and amount) are skipped – so you can safely import a file again. Unknown cost categories end up as “Other”, with their name in the title.

Undo import

The **last import** can be reverted with **Undo import**: all entries it created are removed again. If the import created a new vehicle, that vehicle is removed as well.

17

GPS-Srv: importing trips automatically

If your vehicle has a GPS tracker with **GPS-Srv.de**, RuppiLab's GPS tracking service, you no longer have to type in trips and odometer readings: MaschinenNotes brings them into the logbook automatically.

What the connection does

- **Trips** – one entry per day or one per trip, with departure and arrival (time and place), distance and driving time.
- **Odometer reading** of the vehicle – mileage-based deadlines (e.g. service by miles/km) then work automatically.
- optionally the **refuels** from the GPS-Srv refuel log – your own refuel entries are recognized, nothing is counted twice.
- optionally the **route** in the entry – on RuppiLab's own map, **without third-party map services**.
- fetched **automatically** at start, every 30 minutes and with **Fetch now** – on computer, phone and tablet.

Good to know

- **For all GPS-Srv customers**, at no extra charge. All you need is an API key from your GPS-Srv portal.
- **Read-only**. MaschinenNotes changes nothing in GPS-Srv. You can revoke the key in the portal at any time.
- **Not a tax-compliant mileage log**. Trips become logbook entries of type "Trip" – for mileage, cost per mile/km, consumption and deadlines.

Creating a key in the GPS-Srv portal

- 1 Sign in to the GPS-Srv.de portal and open **Settings › API** (German portal: *Einstellungen › API*).
- 2 Create a key and choose **what it may see**:
 - **Account key** – all devices of your account (or just one device group). MaschinenNotes shows it as **Account key** or **Group key**.
 - **Device key** – exactly one device, i.e. one vehicle.
- 3 Check the **permissions**. MaschinenNotes always needs **trips**; add as you like:

Positions (route)	for the route on the map in the entry
Counter reading	the vehicle's odometer reading
Refuels	refuels from the GPS-Srv refuel log
Driver name	the name goes into the Driver field – without this permission no names are transferred

- 4 **Copy the key right away**. The portal shows it only **once**. It starts with `gsk_live_` followed by 40 characters.

If you no longer need the key – or it has fallen into the wrong hands – **revoke** it in the portal. MaschinenNotes can then no longer fetch anything; entries already imported are kept.

Entering the key in MaschinenNotes

- 1 Open **Settings** > **Connections** > **GPS-Srv** (on the phone via **More** > **Settings**). Before connecting, the row reads “Not connected – import trips from GPS-Srv.de”.
- 2 Paste the key into the **API key** field – **Paste** takes it straight from the clipboard.
- 3 Tap **Connect**. MaschinenNotes contacts GPS-Srv (“Checking ...”) and then shows **Connected** with your account name, the key type and the number of devices.

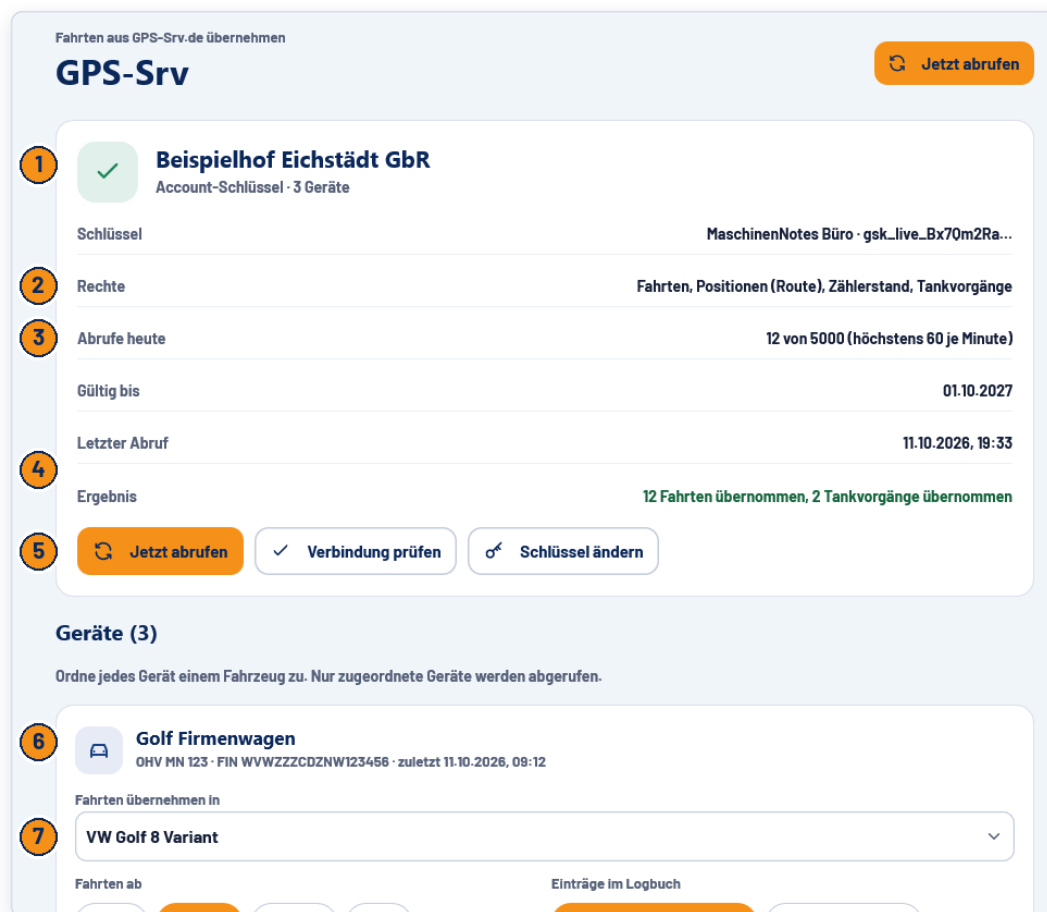


Fig. 25 – GPS-Srv page with account key, permissions, last fetch and the first device (sample data)

Figure shows the German interface.

- | | |
|--|--|
| 1 Connected: account and key type | 5 Fetch now, Check connection, Change key |
| 2 Permissions of the key | 6 device with plate, VIN, last seen |
| 3 Requests today – limit per key | 7 Import trips into – the assignment |
| 4 Last fetch and Result | |

Check connection asks GPS-Srv again – e.g. after you changed devices or permissions in the portal. **Change key** lets you enter a new key.

The key stays **encrypted on this device** and is not synced. On every device that should fetch by itself, you enter it separately (see *Working together with sync*).



Device key for a single vehicle

You can enter a device key in Settings as above – or directly with the vehicle: **Vehicle data** › row **GPS-Srv** › **Own device key**. Trips of that device then always go to this vehicle. The row in the vehicle data also shows whether the vehicle is connected (“GPS-Srv: connected to ...”).

Assigning devices

Under **Devices** you see all GPS devices the key can see – with name, plate, VIN, device number, odometer and “last ...”, as far as GPS-Srv knows them. From seven devices on, a selector at the top offers **Important** (assigned devices and those with a plate or VIN), **Assigned** and **All**.

For each device, choose under **Import trips into** where its trips belong:

- **Do not import** – this is the **default**. Such devices are not fetched at all.
- **an existing vehicle** from your list.
- **Create new vehicle from device** – MaschinenNotes creates the vehicle with vehicle type, fuel and plate from GPS-Srv (“Vehicle “...” created”). If the device is only named after the tracker model, the plate becomes the name.

If the **VIN or plate clearly matches** one of your vehicles, MaschinenNotes suggests it, e.g. “Suggestion: VW Golf 8 Variant (VIN matches)” – a tap on **Use ...** confirms. It never guesses by name.

Nothing happens without you

MaschinenNotes never creates vehicles on its own and only imports devices you have assigned. An account with 30 trackers will not fill your vehicle list unasked.

Options per device

Once a device is assigned, its card shows the options:

Option	Effect
Trips from	Today (default), 30 days , 90 days or All – from when trips are imported.
Logbook entries	One per day (default, e.g. “3 trips · 30 km”) or Each trip (e.g. “Trip Oberkrämer → Velten”). One per day keeps the logbook tidy.
Import private trips	On (default): trips from GPS-Srv privacy mode arrive without places or route . Off: private trips are skipped.
Import counter reading	Odometer from GPS – feeds mileage-based deadlines.
Import refuels	Refuels from the GPS-Srv refuel log (only with the “refuels” permission). Your own refuel entries on the same day (±1 day) with almost the same amount (±2 %) are recognized and not added twice.
Store route	Simplified line for the map in the entry – only with the “positions” permission. Without it the switch is off and the page says “Routes not shared (permission “positions” missing)”.



Below the options you see the status, e.g. "Status: changes up to ... · 12 entries imported". If you later switch from one per day to each trip (or back), MaschinenNotes asks "Rebuild entries?": the entries imported so far for this device are removed and imported in the new form at the next fetch – entries you edited stay.

Fetching

- **Automatically:** shortly after start, then every 30 minutes while MaschinenNotes is open, and on phones when you open the app. You can turn this off under **Advanced** > **Fetch automatically**.
- **Manually: Fetch now** at the top right of the GPS-Srv page or in the connection card. While fetching, it shows "Fetching ..." with progress ("...: importing 12 trips ...").
- Only **assigned devices** and only **finished** trips are fetched – a trip in progress arrives with the next fetch after it ends.

The **Result** sums up the last fetch, e.g. "12 trips imported, 2 refuels imported", "3 updated", "2 refuels already recorded", "2 locally edited entries kept" or "No new trips". The first fetch with routes takes a little longer because every route is fetched separately; after that only changes are transferred.

Read-only mode

On a computer without a valid license (trial expired), fetching is blocked: "Read-only mode: you need a license to fetch." The key and imported entries remain visible.

Trips in the logbook

Imported trips are regular entries of type **Trip**. In the logbook you recognize them by the **GPS-Srv** badge; the **Trips** filter shows only them and your own trips. The purpose from the GPS-Srv logbook (e.g. business, private) appears in the second line.

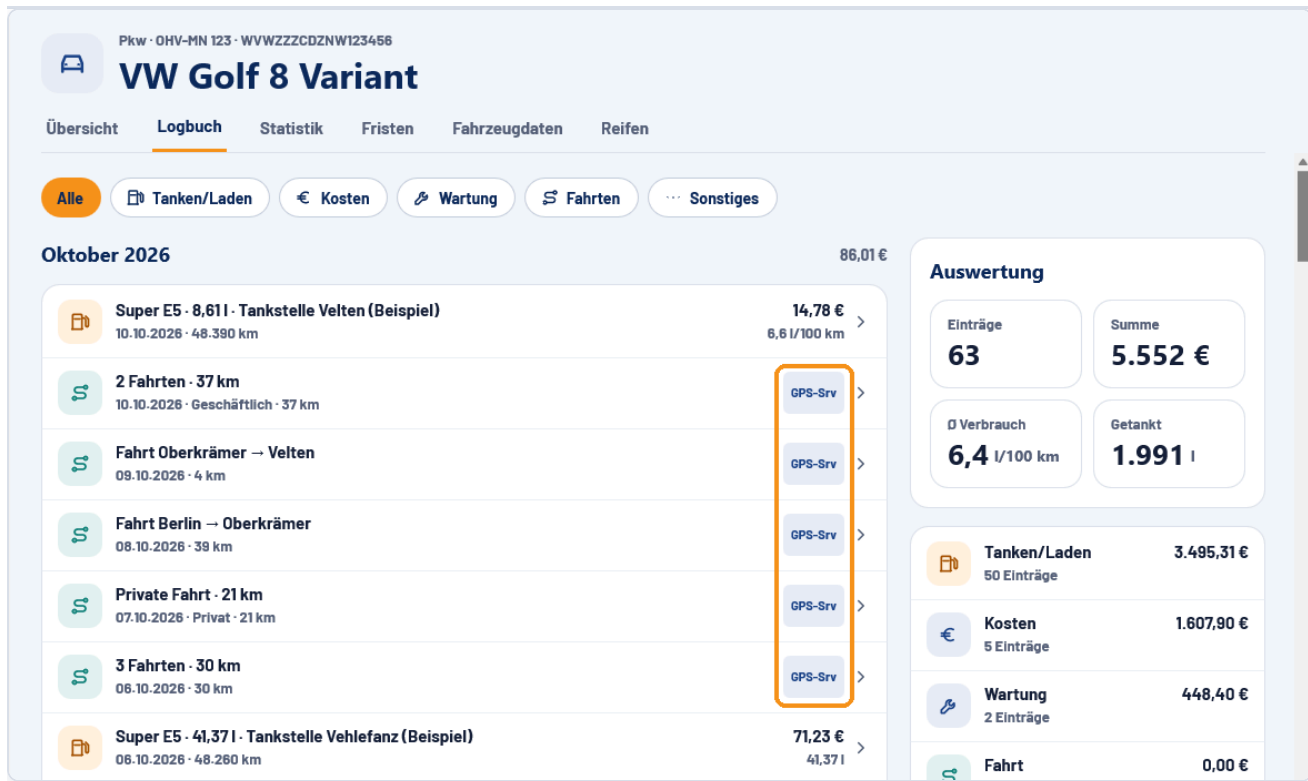


Fig. 26 – Logbook with imported trips (GPS-Srv badge) between your own refuel entries – sample data, fictitious places
Figure shows the German interface.

When you open an imported trip, the entry shows the card **Imported from GPS-Srv** or “From GPS-Srv · 3 trips” below the usual fields:

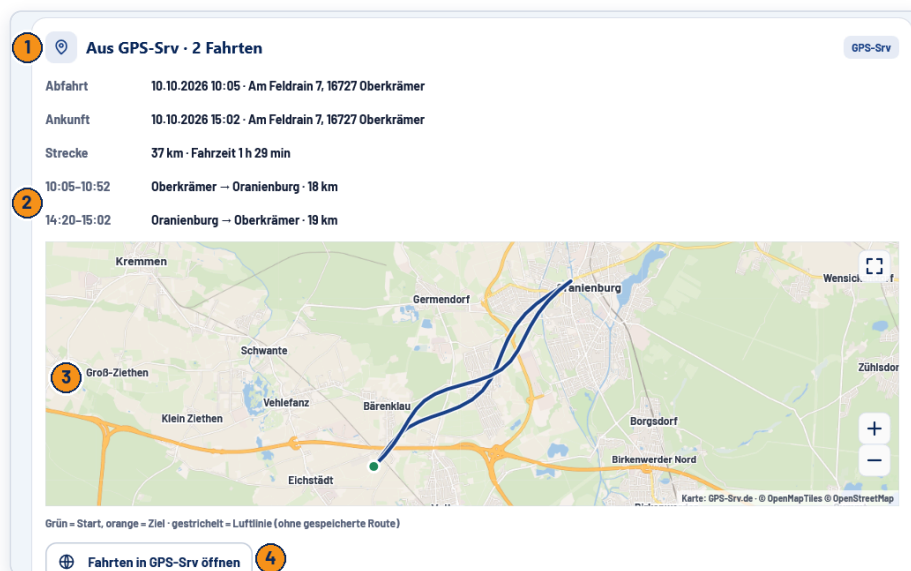


Fig. 27 – Trip entry “one per day” with the trips of the day and the route on the map (sample data, fictitious places)
Figure shows the German interface.

- 1** card **From GPS-Srv: Departure, Arrival, Distance** with driving time
- 2** the individual trips of the day
- 3** route on the map: green = start, orange = destination, dashed = straight line
- 4** **Open trips in GPS-Srv**



- **Route:** a simplified line on RuppiLab's own map (map server GPS-Srv.de) – no data goes to third-party map services; full screen via the icon at the top right. Without a stored route a dashed straight line connects start and destination. Without any places it reads "No route stored (private trip or no "positions" permission)."
- **Open trips in GPS-Srv** opens the trips view of the GPS-Srv portal in your browser; choose device and day there.
- **Odometer:** counter from/to comes from GPS-Srv; the distance is the distance driven according to GPS-Srv.
- **Refuels** from GPS-Srv become regular refuel entries and count toward consumption.

Your changes take priority

You can edit imported entries like any other entry – e.g. add costs or a client. As soon as you change something, the entry says "You edited this entry – corrections from GPS-Srv no longer overwrite it." Entries you delete stay deleted and do not come back.

As long as you have not changed anything, MaschinenNotes keeps the entry up to date: if GPS-Srv **resolves the addresses later**, the trip is temporarily called e.g. "Trip · 24 km" with the note "GPS-Srv is still resolving the addresses – they will be added on the next fetch." The next fetch fills in the places. Corrections from the GPS-Srv logbook (e.g. a changed purpose) are picked up the same way.

Working together with sync

- Imported trips and refuels are regular entries and are transferred to **all synced devices** (chapter 21). So it is enough for one device to fetch – e.g. the office computer; you still see the trips on your phone.
- If **several devices** fetch (each with its own key), **no duplicates** are created: the same trip gets the same identifier on every device, and sync merges them into one entry.
- Use **the same options** on all devices that fetch – especially one per day vs. each trip. Different settings produce different entries for the same trips.
- Key, assignment and options are device settings and are not synced.

Privacy

- **Read-only access:** MaschinenNotes changes nothing in GPS-Srv. The key is stored encrypted on the device and can be **revoked** in the portal at any time.
- **Privacy mode:** trips recorded in GPS-Srv privacy mode are delivered with time and distance only. In MaschinenNotes they are called e.g. "Private trip · 21 km" – without places or route. With **Import private trips** off, they are skipped entirely. If a device's privacy mode is currently on, its card shows **Privacy mode on**.
- **The category "private" in the GPS-Srv logbook is not privacy mode.** If you merely classified a trip as "private" in the GPS-Srv logbook, it arrives with places and route – only the **Purpose** is "Private".
- **Driver names** are only transferred if the key has the "driver name" permission.
- **Routes** are stored only in MaschinenNotes' own encrypted database; with sync they travel end-to-end encrypted.

Disconnecting

At the bottom of the GPS-Srv page, **Disconnect** removes the key from this device ("Disconnect from GPS-Srv?"); no more trips are fetched, imported entries are kept. If you want to get rid of them too, choose **Remove imported entries** – entries you recorded yourself are not affected.

Limits

- **No engine hours.** GPS-Srv currently provides distances only. Vehicles with an hour meter (e.g. tractors) get their trips, but no counter reading.
- **Request limit** per key: 60 requests per minute and 5,000 per day (**Requests today** shows the count). MaschinenNotes **waits by itself** when the per-minute limit is reached – you don't need to do anything. A normal fetch needs only a few requests; only the first one with routes needs many. If the daily limit is reached, the next run continues; a route missed because of it means the trip is imported without a route.
- Titles and notes of imported entries are written in the language set at the time of the fetch.

Error messages and solutions

Message	Cause and solution
"The key starts with gsk_live_ followed by 40 characters – please copy it completely from the portal (Settings > API)."	The pasted text is not a complete key. Copy it again; if that is no longer possible (the portal shows it only once), create a new key.
"GPS-Srv: The key is invalid, expired or revoked." / "... has been revoked." / "... has expired."	The key is no longer valid. Create a new one in the portal under Settings > API and enter it with Change key .
"GPS-Srv: The account of this key is locked."	The GPS-Srv account is not active. Contact GPS-Srv support.
"GPS-Srv: The key lacks a permission (...)" / "Routes not shared (permission "positions" missing)" / "The key lacks the "refuels" permission."	The permission was not checked when the key was created. Trips still arrive (without route or refuels). For the full import, create a key with that permission, enter it and tap Check connection .
"GPS-Srv: The device is not (or no longer) covered by this key."	The device was removed from the key or its device group. Only this device is skipped; the others keep running. Check in the portal, then Check connection .
No devices	The key sees no devices. Check the key's device group in the portal, then Check connection .
"No connection to GPS-Srv (...)" / "GPS-Srv is not responding right now (HTTP ...). Try again later."	Internet or server unreachable. Do nothing – the next fetch catches up, without duplicates. Entries already imported are kept.
"GPS-Srv: Too many requests – please try again in ... minute(s)."	The daily limit of 5,000 requests has been reached. It continues automatically the next day.
"Read-only mode: you need a license to fetch."	The trial has expired on the computer. Enter a license (chapter 20).

18 Backup, privacy & encryption

Your data stays with you

- The database is stored **locally** on your device and is **AES-256 encrypted**.
- No account, no tracking. Without sync, your vehicle data never leaves the device.
- With **sync** (chapter 21) the data is encrypted on the device before it goes to the chosen storage – the storage provider, RuppiLab included, only sees unreadable data.
- Your location is only used for the fuel price search: the Tankstellen-Ampel.de API receives the position and radius – no name, account or vehicle data.
- MaschinenNotes loads **maps** from RuppiLab's own map server (GPS-Srv.de). The server only learns which map areas are loaded; markers, routes and prices are drawn by the app itself. No Google or Apple maps.
- The **GPS-Srv connection** (chapter 17) only reads trips from your GPS-Srv account; the key stays encrypted on the device, and routes are never sent to a third-party map service.
- Receipts and photos are stored as copies in the data folder.

Creating a backup

A backup contains all vehicles, entries, deadlines and settings in one file (`.mnbak`) – encrypted like the database. Receipts and photos are included.

- **Settings** > **Backup** > **Back up now** creates a backup immediately.
- **Back up automatically**: once a week at start; the last 10 automatic backups are kept. Manual backups are never deleted automatically.
- **Last backup** shows date and size; if an automatic backup fails, a note appears here.

Exporting, sharing, importing a backup

- Desktop: **Export ...** saves the backup to a place of your choice (e.g. a USB stick); **Import ...** reads a backup file.
- Phone: **Share backup** opens the share dialog (email, cloud storage of your choice ...).
- **Existing backups**: clicking a backup offers **Restore**, **Share**, **Export ...** and **Delete backup**.

Restoring

- 1 Select the backup under **Existing backups** (or import it) and click **Restore**.
- 2 Confirm the question. The current data is backed up automatically first.
- 3 MaschinenNotes checks the backup, replaces the data and restarts: "Backup restored".

A backup from a newer version of MaschinenNotes can only be restored after updating the app. Restoring does not reset the trial period.



Backup and sync

Sync does not replace a backup: if you delete a vehicle by mistake, it is deleted on all devices shortly afterwards. So keep **Back up automatically** switched on – ideally on the computer.

- **Restoring with sync set up:** the device's sync settings (code, storage location, device name) are kept. Afterwards the backup and the data in the storage are **merged** – per record, the newer version wins. An older backup therefore does not “overrule” newer changes from your other devices.
- **Moving data to a new device:** easiest with the sync code or QR code (chapter 21). Without sync, export or share a backup on one device and restore it on the other – receipts and photos are included. Note: without sync, restoring replaces the data on the target device.



19

Settings

Settings (sidebar or **More**) is divided into sections:

Section	Content
Language & country	Language: System default , Deutsch or English. Country of registration: Germany, Austria, Switzerland – this determines inspection intervals (HU, §57a, MFK), agri diesel and plates.
Sample data	Create sample data or Remove sample data (chapter 2).
Data	Data folder , size and schema of the database (AES-256 encrypted), number of vehicles, entries, farm tanks and own list entries. Buttons Run self-test , Export entries as CSV , Import data .
Connections	GPS-Srv with the connection status, e.g. “Connected · last ...” or “Not connected – import trips from GPS-Srv.de”; a click opens the GPS-Srv page with key, devices and options (chapter 17).
Backup	back up now, back up automatically, export, import, share, existing backups (chapter 18).
Notifications	Reminders as notifications , Send test notification (chapter 8).
Fuel prices	Data source (Tankstellen-Ampel.de API), sample prices, location (also chosen on the map), test connection, price alert as notification (chapter 14).
Sync	sync status (e.g. “active via RuppiLab Cloud until ...” or “not set up”); a click opens the Sync page (chapter 21).
License	Desktop: status and license entry (chapter 20).
About MaschinenNotes	version, publisher, licenses.

On the desktop you can also switch the language at any time with **DE | EN** in the header. Settings apply per device and are not synced – set language and country on each device.

Self-test

Run self-test uses a separate test database to check that database, encryption and saving work on your device, and reports **Self-test passed** or **Self-test failed** with a log. Your data is not changed.

20 License

You can try MaschinenNotes for Windows and macOS for 14 days with all features. On Android and iOS MaschinenNotes is free.

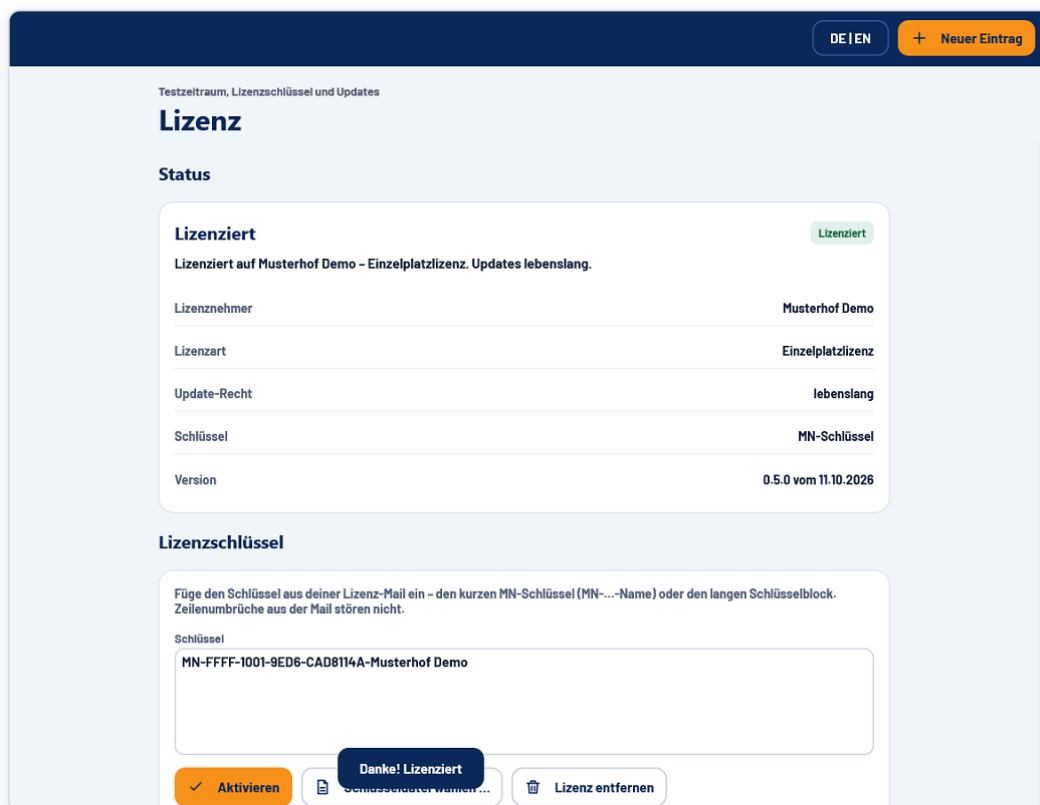


Fig. 28 – License page with status and license key (example)
Figure shows the German interface.

Trial period

- The trial starts with the first launch and lasts **14 days** – with all features.
- The badge in the header shows the remaining days; in the last week MaschinenNotes points this out once at start.
- After that, without a license, MaschinenNotes runs in **read-only mode**: your data is kept and stays visible.

Possible in read-only mode	Only with a license
view all pages, search and filter, statistics and charts, view photos in the app, switch vehicle, language and settings, license page. Automatic backup, reminder notifications and price alerts keep running.	add, change, delete, import, restore; sample data; completing deadlines; adding photos and receipts; farm tank bookings; changing lists; all exports : PDF, CSV, creating/exporting/sharing backups, vCard, list export, opening files. Series bookings are caught up after unlocking.

Once the trial has expired, an orange bar appears at the top: "Trial period expired – read only. Changes and exports need a license." with **Enter license**.

License model

- **Buy once, use permanently.** A license is valid permanently on Windows and macOS.
- **12 months of updates included.** After that the purchased version keeps running without limit; the update right can be renewed. A version newer than your update right covers runs read-only (“Update right does not cover this version”) – the last covered version keeps running.
- **One key for Windows and Mac.**
- **Sync included.** The license includes the **sync code** for all your devices (phones and tablets unlimited, computers per license) and **RuppiLab Cloud** for as long as your update right lasts. If you renew the update right, RuppiLab Cloud is extended automatically; with “lifetime updates” it is included without limit (chapter 21).
- **No online activation, no hardware binding.** The license key is delivered by email.

License types

License type	For whom
Single-user	one seat – also several, e.g. “5 single-user licenses”
Team	packs of 5 or 10 seats (beyond that: site license)
Site	all seats at one site
World	all seats of a company worldwide

You can order via the RuppiLab landing page or by email to apps@ruppilab.de. In the app, **Request a license** opens a prepared email with licensee and number of seats.

Entering a license

- 1 Open the **License** page – via the sidebar, the header badge, the orange bar, Settings or **About MaschinenNotes > License ...**
- 2 Under **License key**, paste the key from your license email – the short **MN key** (MN-...-Name) or the long key block. Line breaks from the email do no harm.
- 3 Click **Activate**. On Windows you can alternatively load a key file with **Choose key file ...**.
- 4 **Status** now shows **Licensee**, **License type**, **Update right** and **Version**.

MN key

On the Mac use the short MN key; it also works on Windows. RuppiLab Cloud needs the MN key as well – on Windows, preferably enter it instead of the long key block.

On the License page, the **Sync** section shows the current status; **Open sync** opens the page. After activating or renewing a license, MaschinenNotes automatically reports the new update right to RuppiLab Cloud with the next sync.

Remove license removes the license from this computer, e.g. before switching computers. You can enter the key again later.

21 Sync

All devices, one data set: with a license you keep MaschinenNotes identical on your computer, phone and tablet – vehicles, entries, deadlines, photos and receipts. End-to-end encrypted; you pair your phone with a QR code.

How sync works

- **One data set on all devices.** What you record on the office computer shows up on the phone in the workshop shortly afterwards – and vice versa. Transferred are vehicles, entries, deadlines, tires, farm tanks, contacts, recurring costs, your own list entries and adjustments, and photos and receipts (up to 24 MB per file – larger files stay on the device where they were added).
- **Changes per record.** MaschinenNotes only transfers what has changed and merges the changes of all devices. So you can **work at the same time** – one person refuels and records it on the phone while another books an invoice on the computer. If two devices change **the same** record (e.g. the same entry) **at the same time, the latest change wins** – i.e. the most recently saved version of the whole entry; no conflict dialog appears.
- **Automatic.** Sync runs in the background: at start, shortly after every change and every 15 minutes; on the phone also whenever you return to the app. When you close the app on the computer, pending changes are still sent. Without internet you keep working as usual – the next sync catches up.
- **End-to-end encrypted.** Your data is encrypted on the device before it leaves it. The storage provider – RuppiLab included – only sees unreadable data. The key is part of the **sync code**.
- **Kept per device** are the settings (language, country, notifications, fuel prices, backup, GPS-Srv key) and the sample data (see below).

All devices are equal

Sync does **not run through the computer** but through the shared storage (RuppiLab Cloud or your Google Drive, Dropbox or OneDrive). Every device with the same sync code puts its changes there, encrypted, and picks up those of the others. No device is the “main device”.

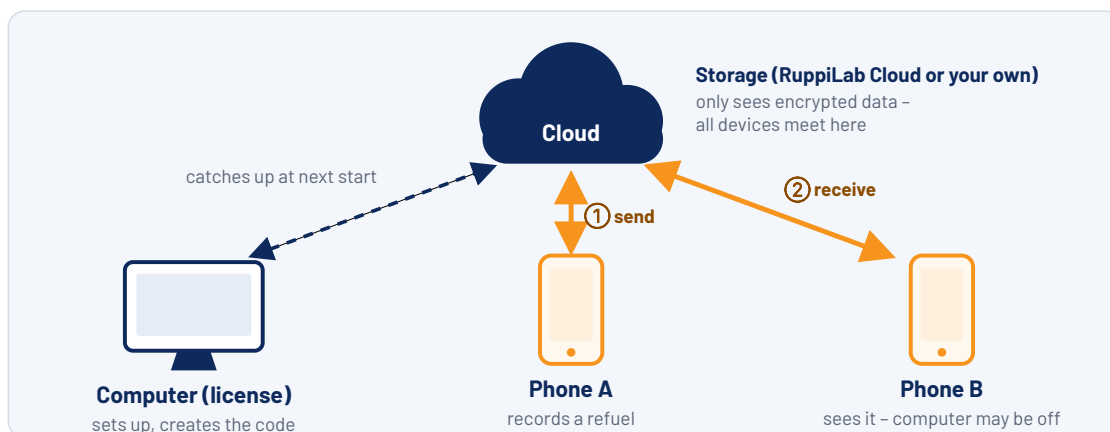


Fig. 29 – Computer, cloud and two phones: phone A and phone B sync directly via the cloud



- **Phone ↔ phone directly.** If you record a refuel on phone A, your colleague sees it on phone B shortly afterwards – **even if the computer is switched off.**
- **The computer catches up.** At its next start it receives everything the phones recorded in the meantime – and sends its own changes.
- **New devices get the complete data set** – all vehicles, entries, photos and receipts, no matter when they join and whether the computer is running.
- **Simultaneous changes** to the same entry: the latest one wins. Different entries never get in each other's way.

What only the licensed computer can do

- **Setting up:** the sync code is created only on the computer with a license (**Set up sync**). Phones and tablets join with this code.
- **Managing:** **Change code**, **Change storage location**, **Sign out** of devices and **Renew update rights** are available on the computer.
- **Moving after RuppiLab Cloud expires:** the computer switches the storage location and **all devices move together** – each one follows with a tap, the sync code stays the same (see *When the update right ends*).

The computer does not have to be running for everyday syncing.

Requirement: a license on the computer

Sync comes with the purchased **desktop license** (Windows or macOS, chapter 20). Only after unlocking does MaschinenNotes show a **sync code** on the computer. The phone app stays free – with the code from the computer it syncs along.

- **There is no sync code during the 14-day trial.** The **Sync** page then explains how it works after purchase (“You are trying MaschinenNotes (...). Sync comes with the purchased license.”), with **Enter license** and **Request a license**.
- In **read-only mode** (trial expired) and when the update right does not cover the installed version, sync pauses; it resumes automatically once you enter or renew the license.
- Without a code, the phone app is fully usable – just without sync.

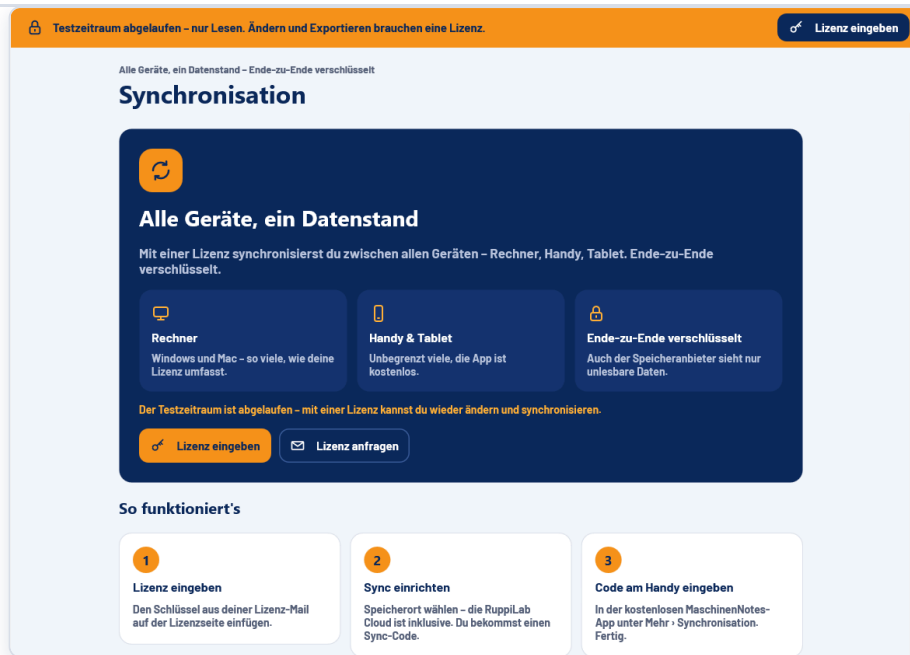


Fig. 30 – Sync without a license: explanation and the three steps to get started
Figure shows the German interface.

Setting up sync on the computer

You set up sync **once**, on the licensed computer that holds your data.

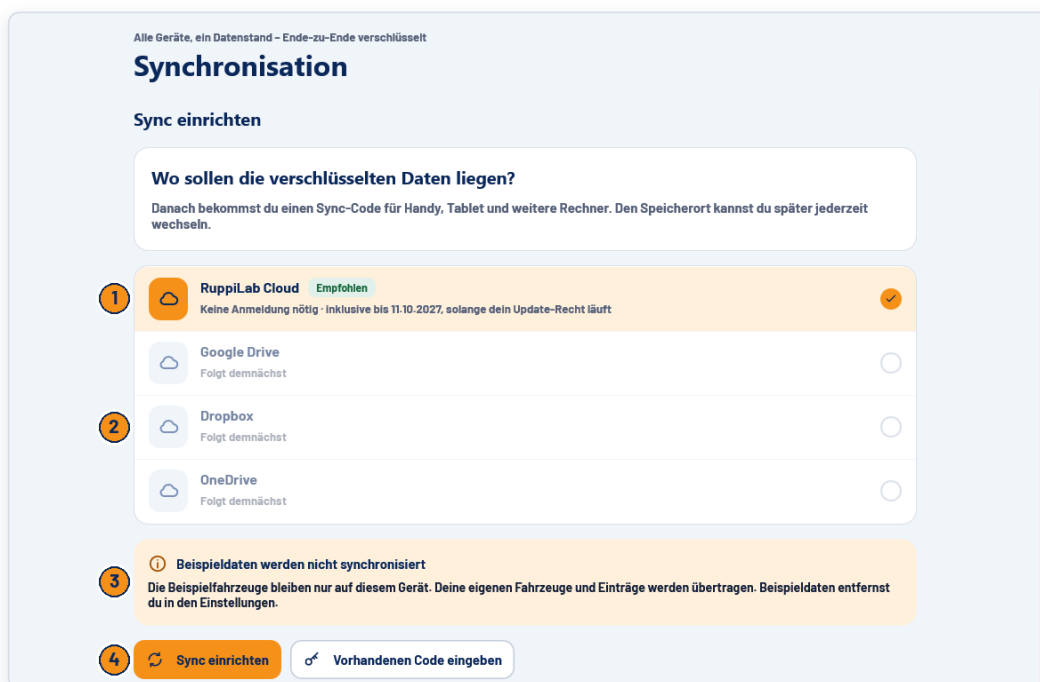


Fig. 31 – Set up sync: choose a storage location and create the code
Figure shows the German interface.

- 1 **RuppiLab Cloud** – included as long as your update right lasts
- 2 **Your own storage:** Google Drive, Dropbox, OneDrive

- 3 Notice: **Sample data is not synced**
- 4 **Set up sync** or **Enter existing code**



- 1 Enter your license (chapter 20). RuppiLab Cloud needs the short **MN key** from your license email (MN-...).
- 2 Open **Sync** – in the sidebar between **Settings** and **License**, via the cloud icon in the header, in **Settings** or on the **License** page (**Open sync**).
- 3 Under **Where should the encrypted data be stored?** choose the storage location – easiest is **RuppiLab Cloud (Recommended, no sign-in needed)**.
- 4 Click **Set up sync**. MaschinenNotes reports “Sync is set up – your sync code is shown above.” and uploads your data encrypted.
- 5 Under **Your sync code** you now see the code in groups, e.g. MNS-XXXX-XXXX-XXXX-XXXX-XX . **Copy** puts it on the clipboard.

The Sync page

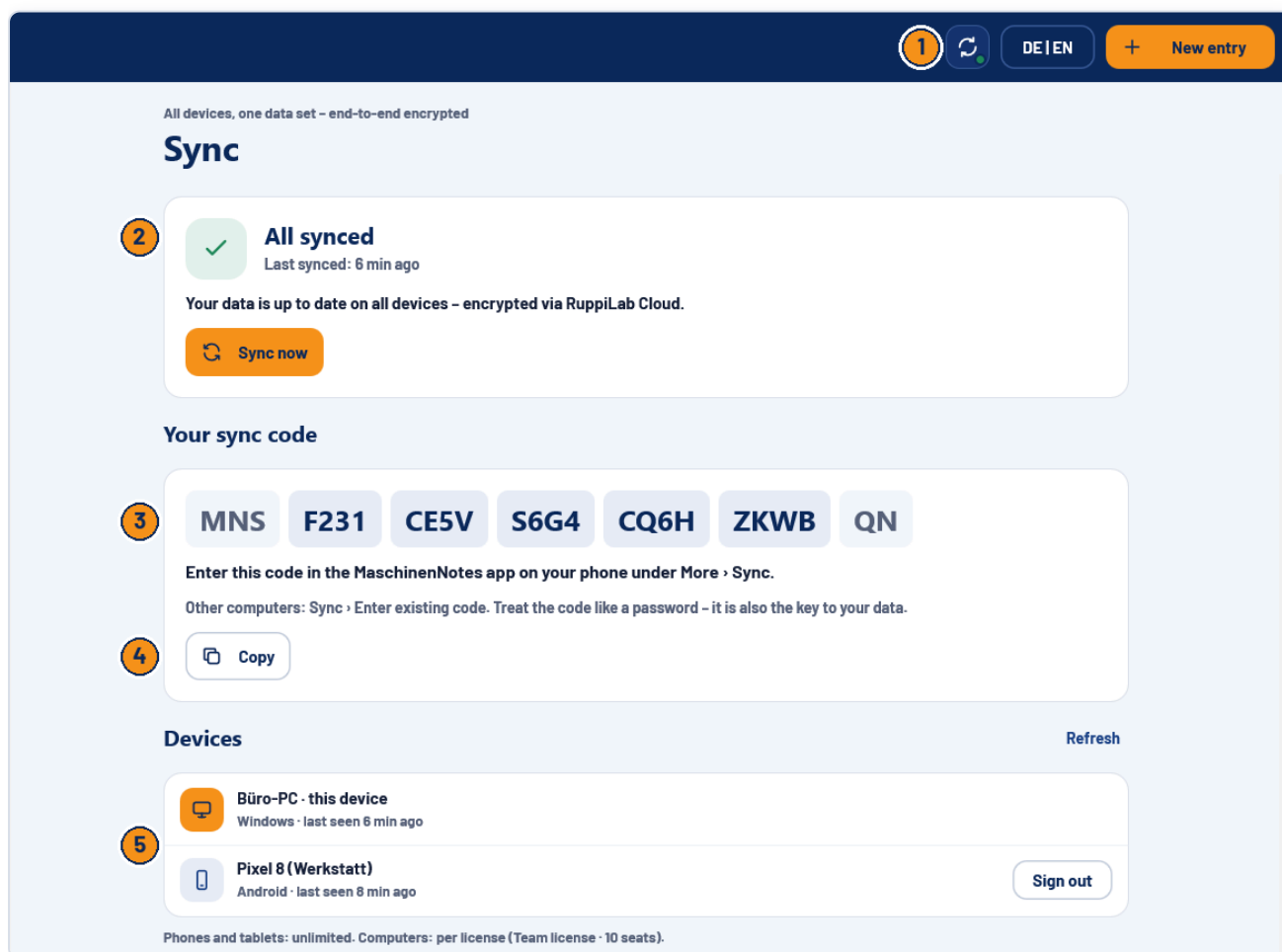


Fig. 32 – Sync set up, with status, sync code and devices (the code in the figure is an example)

- 1 **Sync icon** in the header with status dot
- 2 **Status** with **Sync now**
- 3 **Your sync code**
- 4 **Copy**
- 5 **Devices** with **Sign out**

Below the sync code, the computer shows the **Scan with your phone** card with the QR code (see next section). Further down follow **Storage location**, **Manage** (**Device name**, **Change storage location**, **Change code**, **Stop sync**) and the **Sync history**.

Connecting your phone with a QR code

The quickest way to connect a phone or tablet is the **QR code** your computer shows – no typing, no typos. The QR code contains the sync code and the storage location.

On the computer: show the QR code

Open **Sync** on the licensed computer. Below **Your sync code** you find the card **Scan with your phone – Connect your phone to this computer**. The QR code is only available once sync is set up (not during the trial and not in read-only mode).



Fig. 33 – Computer: sync code and QR code to scan with your phone (code and QR code in the figure are examples)

Figure shows the German interface.

- 1** QR code with sync code and storage location
- 2** Notice: only show the QR code to your own devices
- 3** Enlarge QR code – shows it large over the window; **Esc** or a click closes it

On the phone: scan the QR code

- 1** Install the free MaschinenNotes app on your phone or tablet.
- 2** Open the code entry: on the **Welcome** page with **Connect with sync code** – or later under **More** > **Sync**. It says **Sync with your computer**.
- 3** Tap **Scan QR code**. The camera opens (the first time, the system asks for camera permission).



- 4 Take a photo of the QR code on the computer screen. MaschinenNotes reads the photo ("Reading QR code ...") and reports **Code recognized**.
- 5 The sync code is now in the **Sync code** field, and the storage location is set as on the computer. Tap **Connect**: "Connected – your data is being synced now." If you have already recorded data on the phone, it is merged with the data from the computer.

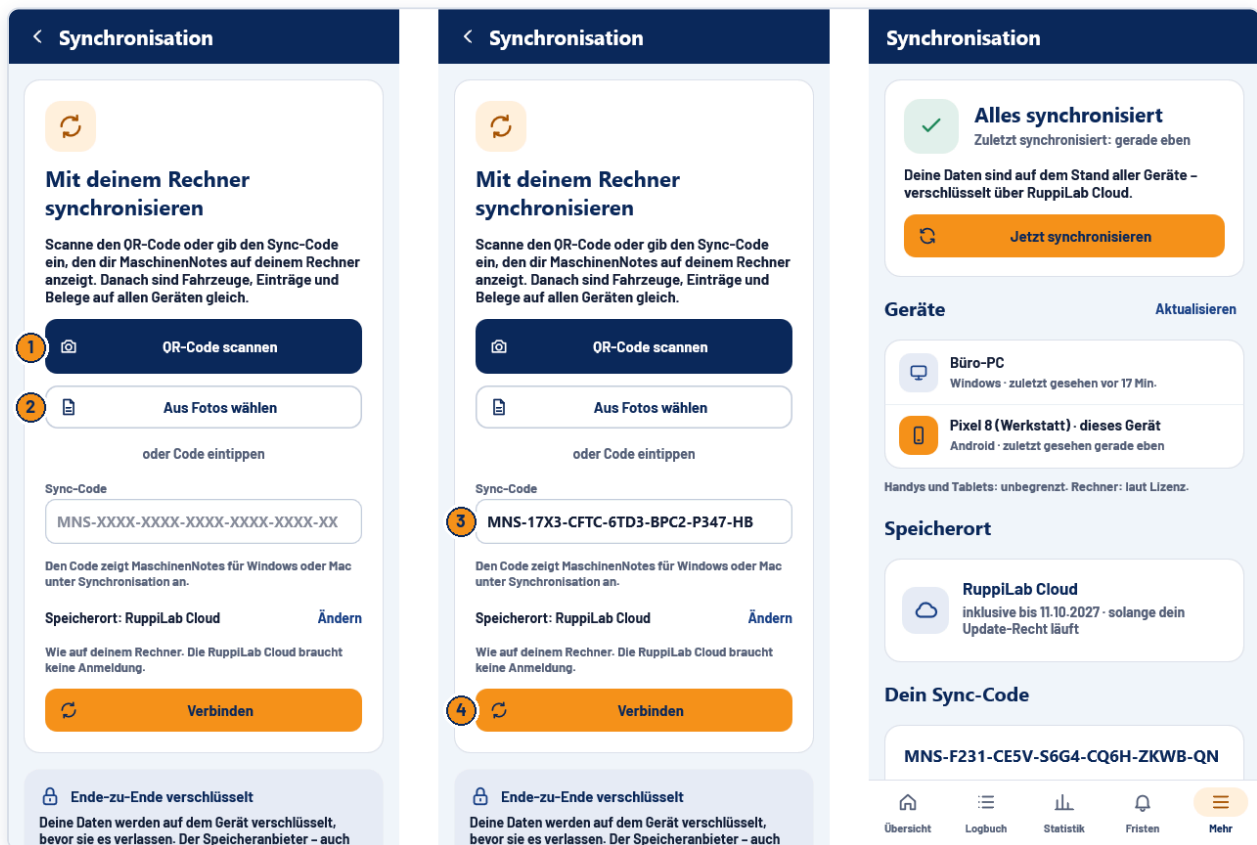


Fig. 34 – Phone: code entry with QR scan (left), recognized code in the field (middle) and sync set up (right) – the codes in the figure are examples

Figure shows the German interface.

- 1 **Scan QR code** – photo with the camera
- 2 **Choose from photos** – existing image
- 3 recognized code in the **Sync code** field
- 4 **Connect**

Scanning with the regular camera app

You can also scan the QR code with your phone's camera app. The phone then offers to open the link with **MaschinenNotes**. MaschinenNotes opens the **Sync** page with the **code already filled in**, sets the storage location and reports "Sync code filled in – tap 'Connect'." The connection is only made after you tap **Connect**. Requirement: MaschinenNotes is installed on the phone.

Choose from photos

If you already have the QR code as a photo or screenshot on your phone (e.g. sent to yourself), tap **Choose from photos** and select the image. The code is read just like a scan and filled into the field. Only send the QR code through a channel that only you use – it is as secret as the sync code.

Or type in the code

It works just as well without a camera: under **or type in the code**, enter the code from the computer in the **Sync code** field (e.g. MNS-XXXX-XXXX-XXXX-XXXX-XXXX-XX). Upper/lower case and spaces don't matter; MaschinenNotes detects typos immediately by the check characters at the end ("The sync code is not correct – please check for typos."). Then check the **Storage location**: it must be the same as on the computer. RuppiLab Cloud is preset ("Same as on your computer. RuppiLab Cloud needs no sign-in."). If your computer uses Google Drive, Dropbox or OneDrive, select it with **Change** and sign in there after **Connect**.

Tips for scanning

- Hold the phone **straight** in front of the screen and close enough for the QR code to fill a large part of the photo – the whole code with a bit of white margin must be in the picture.
- On the computer, **Enlarge QR code** helps. Turn up the screen brightness and avoid reflections (windows, lamps).
- Wait until the camera has focused; simply retake a blurry photo.
- Still no luck: read a screenshot of the QR code with **Choose from photos** or type in the code.

Afterwards, **More** > **Sync** on the phone shows the status, **Devices**, **Storage location** and the sync code (for connecting more phones and tablets). **Disconnect** ends sync on this device; the data stays on it.

Connecting another computer

- 1 Install MaschinenNotes on the other computer and enter your license there as well.
- 2 Open **Sync** and click **Enter existing code** (also via **Connect with sync code** on the Welcome page).
- 3 Enter the sync code – or read it from an image with **Read QR code from image file** (screenshot or photo of the QR code as PNG, JPG, BMP or GIF; dialog **Choose image with QR code**).
- 4 Under **Storage location – the same as on the other computer**: choose the matching storage location (it is taken from the QR code) and click **Connect**.

Only the phone scans with the camera. A computer does not register a link for the QR code; if you open it there anyway, you see "Scan the QR code with your phone. On a computer: Sync > Enter existing code."

The computer gets the same data; existing data is merged. Each additional computer uses one seat of your license (see *Managing devices*).

Storage locations

Storage location	Sign-in	How long
RuppiLab Cloud (recommended)	none	included as long as your update right lasts – i.e. 12 months from purchase or renewal, unlimited with "lifetime updates". The page shows the date, e.g. "included until ...", as long as your update rights last".

Storage location	Sign-in	How long
Google Drive, Dropbox, OneDrive (your own storage)	once per device in the browser or sign-in sheet	any time, also after the update right has expired. MaschinenNotes only uses its own app folder in your storage.

Google Drive, Dropbox and OneDrive coming soon

In the current version these three storage options are still listed as **Coming soon**. Until then you sync via RuppiLab Cloud; you can switch later at any time and the sync code stays the same.

When the update right ends



You have two options: **renew the update right** (button **Renew update rights** on the computer; after you enter the new key, RuppiLab Cloud is extended automatically) or **change the storage location** to Google Drive, Dropbox or OneDrive. The purchased version and sync itself keep working with a valid license – only the storage changes. The phone has no buttons for this; it says "Renew or switch on the computer." When the computer switches, **all devices move together**: each one reports "Storage location was changed to ..." and follows with a tap; you don't have to pair any device again. Your data on the devices is kept in any case; a closed storage space is deleted later.

Changing the storage location

- 1 On the licensed computer: **Sync** > **Manage** > **Change storage location** (or **Change** next to the storage location) and choose the new storage; for Google Drive, Dropbox or OneDrive, sign in in the browser.
- 2 Confirm "Switch storage location to ...?". All data on this computer is transferred there encrypted: "Storage location changed: ...".
- 3 The other devices report "Storage location was changed to ..." and follow with a tap on **Switch to ...** (with sign-in for Drive & co.). The sync code stays the same.

Security and sync code

- The sync code is **also the key** to your data. Treat it like a password and only enter it on your own devices or those of your business.
- The same applies to the **QR code**: it contains the sync code. Only show it to your own devices – not in video calls or on photos – and delete screenshots of it once you no longer need them.
- RuppiLab and the storage providers do not know the code and cannot read your data. Forgetting it is no problem: every connected device shows the code under **Your sync code**.



- **Change code:** if the code got into the wrong hands, create a new code on the computer under **Manage** › **Change code** (“New code – reconnect all other devices”). You get a new, empty storage space, this computer uploads everything again and the old space is deleted. All other devices are disconnected and need the new code.
- **Stop sync** (computer) or **Disconnect** (phone): the code is removed on this device, the data stays. Other devices keep syncing with each other.

Managing devices

Devices lists all connected devices with name, platform and “last seen”; your own is marked **this device**.

Refresh reloads the list. You change the name under which your device appears to the others under **Manage** › **Device name**.

Device type	How many per sync code
Phones and tablets	unlimited – they don't count
Computers (Windows, Mac)	per license: single-user = number of seats, team = number of seats, site and world unlimited. The page shows e.g. “Computers: per license (Team license · 10 seats)”.

Sign out (on the computer, RuppiLab Cloud) signs out an old device – after the question “Sign out device ‘...’?” it no longer syncs until the code is entered there again, and a computer seat becomes free. The data on the device stays. With Google Drive, Dropbox and OneDrive, MaschinenNotes only shows the computers; the number per license still applies.

Sample data is not synced

The sample vehicles (chapter 2) stay only on the device where you created them – even if you keep using or changing them. Your own vehicles and entries are transferred. So record real data in your own vehicles and preferably remove the sample data before setting up sync (**Settings** › **Sample data** › **Remove sample data**).

Status icon and sync history

On the computer the icon at the right of the header (next to **DE | EN**) shows the status; a click opens the **Sync** page:

Display	Meaning
cloud, dimmed	not set up
sync arrows, spinning	sync in progress (“Syncing ...”) – you can keep working in the meantime
dot green	All synced
dot orange	notice, e.g. no connection right now or RuppiLab Cloud expires soon
dot red	action needed, e.g. sign in or check the code (see table below)

The tooltip shows the status and “Last synced: ...”. On the phone the status is under **More** › **Sync**, with the badge **Notice** or **Action needed** when required.



The **Sync history** (at the bottom of the page, **Show/Hide**) lists the last 50 syncs with time and result, e.g. “3 sent · 5 received” or “no changes” – helpful if something does not arrive, and for support.

Error messages and solutions

Message	Cause and solution
“The sync code is not correct – please check for typos.” / “... is too short or too long.” / “... contains invalid characters.”	Typo when entering. Take over the code on the computer with Copy , scan the QR code, or compare character by character.
“No QR code found – hold your phone closer and straight, or type in the code.” / “No QR code found in the image – use a sharper image or type in the code.”	The photo or image contained no readable QR code. On the computer use Enlarge QR code , take the photo closer and straight, avoid reflections (see <i>Tips for scanning</i>) – or type in the code.
“This QR code does not contain a MaschinenNotes sync code.” / “The link does not contain a valid sync code.”	A different QR code (e.g. Wi-Fi, website) or a damaged link. Scan the QR code on the Sync page of the licensed computer.
“Sync is already set up on this device.”	The device is already connected; the scanned code is not taken over. For a different code, first Disconnect (phone) or Stop sync (computer).
Sync code does not match	The code does not belong to the data in the chosen storage – e.g. after Change code on another computer. Re-enter code with the current code.
No data for this code	There is nothing for this code in the chosen storage. Check the code and choose the same storage location as on the computer (Choose another storage location).
All computer seats in use	The license does not allow more computers. Under Devices , Sign out an old computer or extend the license. Phones and tablets don't count.
Sign-in required	The sign-in at Google Drive, Dropbox or OneDrive has expired or was revoked. Sign in again with Sign in .
MN key missing	RuppiLab Cloud needs the short MN key from your license email. Enter it on the License page (Enter MN key).
RuppiLab Cloud expired / RuppiLab Cloud closed	The update right has expired (see <i>When the update right ends</i>). On the computer, Renew update rights or Change storage location .
Storage location was changed to ...	A computer moved the data to a new storage location. Follow it with Switch to ... (sign in there if needed).
No connection right now	Storage or internet not reachable. Nothing to do – MaschinenNotes retries automatically, your changes stay safe on the device.
Storage full	There is no space left at your own storage provider. Free up space there or change the storage location.
Sync paused	No valid license on the computer (trial expired or the update right does not cover this version). Enter the license or renew the update right – sync then resumes automatically.



22 Keyboard shortcuts

On the desktop (Windows) the most important actions are available from the keyboard:

Key	Action
Ctrl + N	New entry for the selected vehicle (choice of entry type)
Ctrl + S	save in the open editor (entry, vehicle, reminder ...)
Ctrl + F	jump to the search field of the page (e.g. lists, contacts)
F1	About MaschinenNotes
Esc	close a dialog or picker, or go back one page – asks first if there are unsaved changes



23

FAQ & troubleshooting

Why does the overview show no consumption yet?

Consumption is calculated from full tank to full tank – a value appears from the second full tank on. Make sure **Full tank** is switched on and the reading is correct (chapter 6).

Consumption is suddenly far too low or too high.

Usually a refuel is missing or a reading was mistyped. Check the reading in the logbook; for a missed refuel, switch on **Previous refuel not recorded** in the next entry.

“Lower than the last reading – please check”

The reading you entered is below the last recorded one. Correct the value or the older entry.

The periodic inspection says “Cannot calculate”.

Enter the **First registration** or the **Last main inspection (HU)** in the vehicle data. Also check the country in Settings.

I don't get any reminders.

Check under **Settings** > **Notifications** that **Reminders as notifications** is on, and send a test notification. On Windows, notifications only appear while the app is open. On the phone, notifications must be allowed in the system settings. Reminders without a date (reading only) create no notification.

Where is the fleet?

The fleet overview appears with two or more active (not archived) vehicles.

The Tires tab says “No tires”.

Boats, generators and tracked vehicles have no tire management.

I don't see an agri diesel report.

It is only available with Germany as country. Switch on **Vehicle is eligible for agricultural diesel** in the machine's vehicle data.

Fuel prices: “Prices unavailable” or “No filling station found”.

Check your internet connection and tap **Try again** or **Settings** > **Fuel prices** > **Test connection**. Increase the radius. Prices are only available for German filling stations. On the phone, location services must be on and allowed for MaschinenNotes.

The import doesn't read my file correctly.

Correct delimiter, decimal separator and date format in the **Vehicle & source** step and check **Map columns**. If something still went wrong: **Undo import**.



The trial has expired – is my data gone?

No. MaschinenNotes runs read-only; everything stays visible. After entering a license you can continue right away.

“Update right does not cover this version”

Your license is valid, but this version is newer than your update right. Renew the update right or keep using the last covered version.

I have a new computer or phone.

With sync: new phone – install the app, **Connect with sync code** > **Scan QR code**, **Connect**, done. New computer – enter your license key, then **Sync** > **Enter existing code**; sign out the old device under **Devices** (chapter 21). Without sync, create a backup on the old device (**Export ...** or **Share backup**) and restore it on the new one (chapter 18).

Why don't I see a sync code?

The sync code is only available on a computer with a purchased license – not during the trial and not in read-only mode. On the phone you enter the code from the computer (or scan its QR code); it is not created there.

My phone does not recognize the QR code.

On the computer use **Enlarge QR code**, turn up the brightness, hold the phone straight and close enough, avoid reflections. Alternatively read a screenshot with **Choose from photos** or type in the code (chapter 21, *Tips for scanning*).

Can several people work at the same time?

Yes. Each device works with its own database; sync merges the changes per record. Only if two devices change the same record does the most recently saved version win.

Can I sync two phones with each other?

Yes. All devices with the same sync code are equal and sync via the cloud – phone with phone directly, even if the computer is off. The only requirement is that sync was set up once on the licensed computer; then enter the code (or scan the QR code) on both phones. The computer catches up at its next start (chapter 21, *All devices are equal*).

The sample vehicles are missing on my phone.

That is intended: sample data is not synced. Only your own vehicles and entries are transferred.

A change does not arrive on the other device.

Open **Sync** on both devices and tap **Sync now**. Check the status and the **Sync history**; messages and solutions are listed in chapter 21 under *Error messages and solutions*. Settings such as language and country are deliberately not transferred.

Are the trips from GPS-Srv a mileage log for the tax office?

No. MaschinenNotes imports them as “Trip” logbook entries for mileage, cost per mile/km, consumption and deadlines – not a tax-compliant mileage log (chapter 17).



GPS-Srv is connected, but no trips arrive.

Check under **Settings** › **Connections** › **GPS-Srv** whether the device is assigned to a vehicle – **Do not import** is the default. With **Trips from Today** only trips from the day of setup arrive; for older ones choose **30 days**, **90 days** or **All**. Trips in progress appear only after they end. Then tap **Fetch now** and look at the **Result**.

Imported trips appear twice.

This only happens if two devices use different options for the same GPS device (e.g. one per day on the computer, each trip on the phone). Use the same options everywhere or fetch on one device only; sync distributes the trips to all devices anyway.

Why doesn't my tractor get a counter reading from GPS-Srv?

GPS-Srv currently provides distances only, no engine hours. Vehicles with an hour meter get their trips but no reading – enter it yourself as usual.

“Database could not be opened”

Restart the app. If the error persists, check the data folder (disk space, access rights) and run the self-test. If that doesn't help, restore a backup or contact us (chapter 24).

24 Contact & legal notice

Support

Questions, bugs, wishes? Write to apps@ruppilab.de. To help us help you quickly, please include:

- the version (under **About MaschinenNotes**, **F1**) and your system (Windows, macOS, Android, iOS),
- what you did and what happened – a screenshot helps,
- for license questions, the licensee from your license email.

Legal notice

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Notes

Deadlines, consumption figures, tire, fuel price and agri diesel information come without guarantee – manufacturer data, inspection bodies and authorities take precedence. The figures show sample data; people, companies and phone numbers in them are fictitious. Spritmonitor, Fuelio, Drivenote, Tankstellen-Ampel.de, Google Drive, Dropbox, OneDrive and other names mentioned are trademarks of their respective owners. QR Code is a registered trademark of DENSO WAVE INCORPORATED.

Third-party components

Component	License and notice
Font Barlow	SIL Open Font License
ZXing.Delphi (reading QR codes)	Apache License 2.0 – Copyright ZXing authors, Delphi port by E. Spelt and K. Gossens; github.com/Spelt/ZXing.Delphi . Used without changes.
Creating QR codes	own implementation (RuppiLab) following ISO/IEC 18004

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