

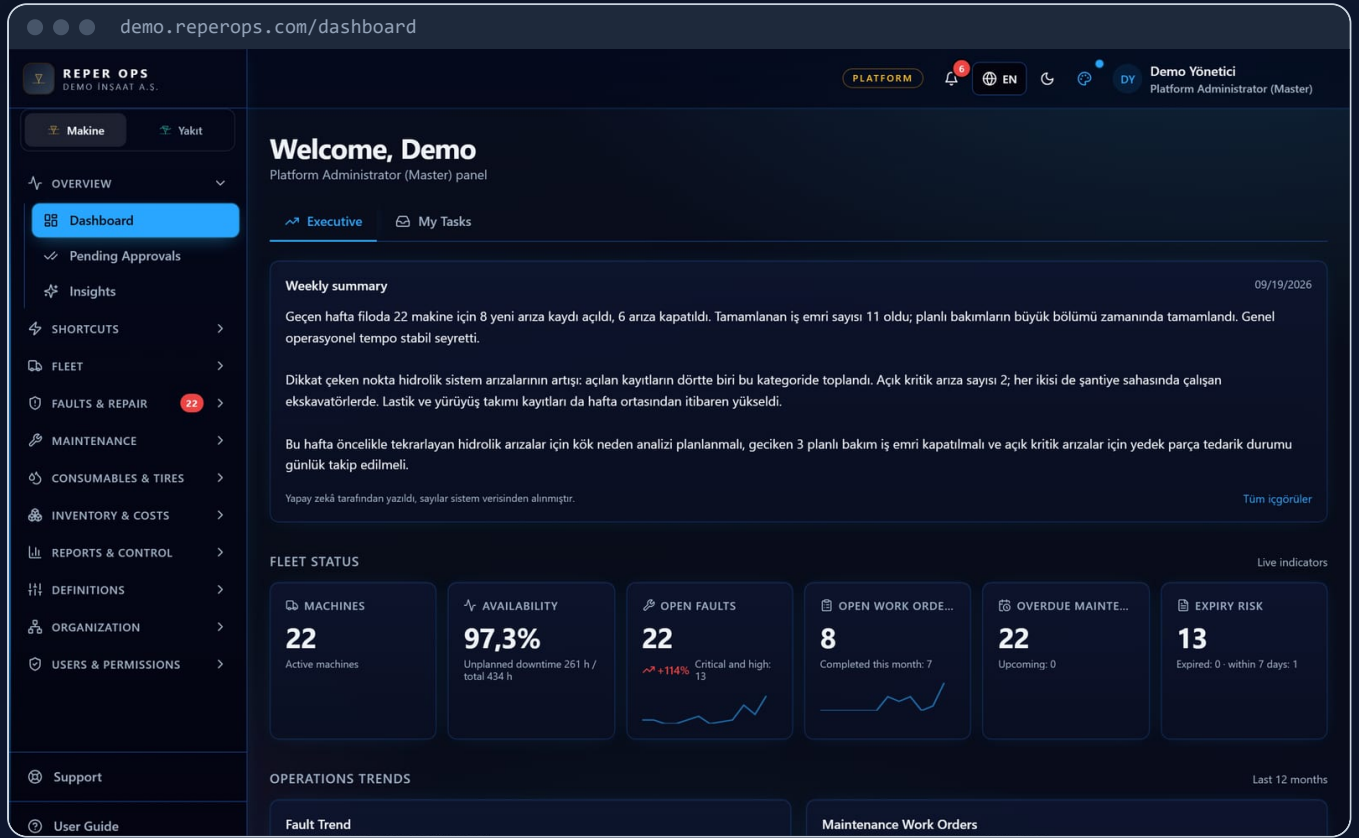


Reper Axis

Equipment, Maintenance and Fleet Management

— PRODUCT BROCHURE · 2026

Reper Axis is the machine and fleet product on the Reper Ops platform—unifying fault, maintenance, spare parts, fuel, operator, and cost management for construction equipment and vehicle fleets.



Axis

modules, enabled as needed

QR

site records in seconds

Offline

field app

Isolated

separate database per company

What is in this brochure?

03	The real site problem	04	Site actions via QR	05	Offline and mobile field
06	Management dashboard	07	Machine inventory	08	Machine record
09	Fault management	10	Work orders	11	Preventive maintenance
12	Checklists and inspections	13	Warehouse and spare parts	14	Cost management
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18	Oil tracking and oil analysis	19	Operator management	20	Contracts, warranty and transfer
21	Downtime and availability KPIs	22	Analytics: anomaly and risk score	23	Notifications and vehicle tracking
24	Reports	25	Telematics integrations	26	Organization and access control
27	Security, audit trail and infrastructure	28	AI: fault triage	29	AI: insights and weekly summary
30	Support	31	Modules and packages	32	Demo and contact

Who is it for?

Site superintendent

Open faults and down machines on one screen.

Maintenance / shop manager

Preventive maintenance, work orders and parts.

Fleet manager

Records, warranty, contracts and availability.

Operator

Reports faults via QR, fills checklists, logs fuel.

Procurement and finance

Reports stock, purchasing and machine costs.

Executive management

Tracks KPI, risk and cost summaries by project.

Brochure guide

1

Field · 03–05

Site problems, QR workflows, offline mobile.

2

Operations · 06–14

Dashboard, assets, faults, work orders, maintenance, cost.

3

Platform · 15

Product family and shared layer.

4

Specialty · 16–25

Fuel, tires, oil, operators, KPIs, reports.

5

Enterprise · 26–32

Access control, security, modules, demo.

Makes operations lost on paper and in messages visible.

What happens on site

Faults get lost in calls and messages

Who reported, which machine, when it closed is unclear; repeat faults go unnoticed.

Preventive maintenance is missed

Counter readings are entered irregularly; due machines keep running on site and failures get costly.

Spare parts and stock are invisible

No one knows what is in which warehouse; parts are bought twice or work orders wait for parts.

Fuel and cost are not measured

Fuel, labor and parts per machine are not tracked; rental decisions rely on gut feel.

The Reper Axis approach

- ✓ **One machine-centric record** — every fault, maintenance, part, fuel and document ties to the machine.
- ✓ **Site → shop → management** — a fault opened via QR becomes a work order and cost.
- ✓ **Automatic triggers** — maintenance and alerts are created from counters, calendar and telematics.
- ✓ **Measurable outcomes** — availability, MTBF, MTTR and cost per machine are reported.
- ✓ **Role-based visibility** — each user sees only their company and projects.
- ✓ **No installation** — runs in a browser; a phone on site is enough.

From record to decision: four steps

1

Record on site

Operator scans the QR code; fault, inspection and fuel entries land on the right machine.

2

Work order in shop

Fault becomes a work order; parts are reserved, labor and time are logged.

3

Close-out and cost

When the work order closes, parts are consumed and labor and outside service post to the machine.

4

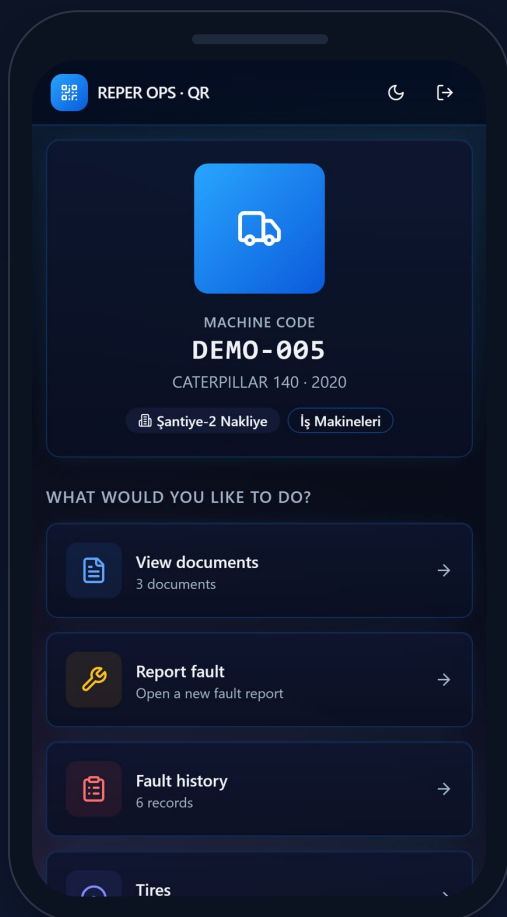
Report in management

Availability, MTBF/MTTR and cost per machine appear in reports.

Reper Axis is not a software install but a way of working: record on site, work order in shop, report in management.

The QR code on the machine is the fastest field interface.

Reper Axis generates a unique QR code for each machine. The label is affixed to the machine; the operator or field staff scans it with a phone. No app install — the action screen opens with the correct machine selected.



Machine screen opened after QR scan

Actions available from the QR code

- ✓ **Report fault** — with category, priority, photo and operable / inoperable status.
- ✓ **Fill checklist** — shift-start or daily inspection; a failed critical item opens a fault automatically.
- ✓ **Log fuel fill** — with liters, counter reading and tank selection; tank level updates instantly.
- ✓ **View documents** — registration, insurance, inspection and certificates.
- ✓ **View tires** — configuration, mount status and tread depth.
- ✓ **Fault history** — see what happened on this machine before, on site.

1

Print labels

Generate batch labels from the QR Print module.

2

Scan with phone

Camera is enough; no app store needed.

3

Verify identity

Corporate user login; actions open by permission.

4

Complete action

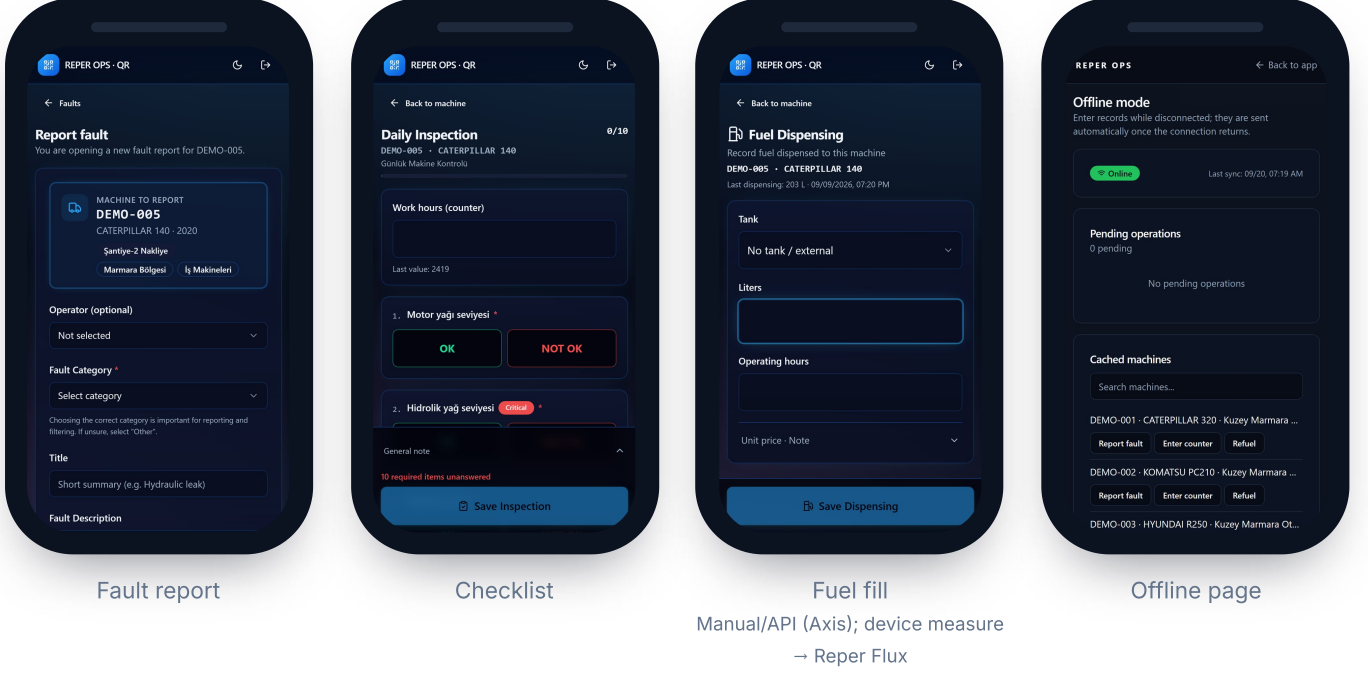
Record posts to the right machine under the right user.



Demo machine QR code — scan with your phone and try with the demo account (demo.reperops.com)

Works where coverage does not.

Reper Axis is a PWA: add to home screen; when internet drops, records queue on device and send when back online.



Offline queue

Fault, counter, inspection and fuel records stay on device offline; send in order when connected.

Photo and location

Fault photos and inspection images attach. Outside registered site triggers location mismatch alert.

Who, when, which machine

Every action logged with user, time and machine in audit trail.

Zero install

No app store; browser and camera are enough

Home screen

Added to phone as PWA, opens like an app

Queue

Records entered offline wait on the device

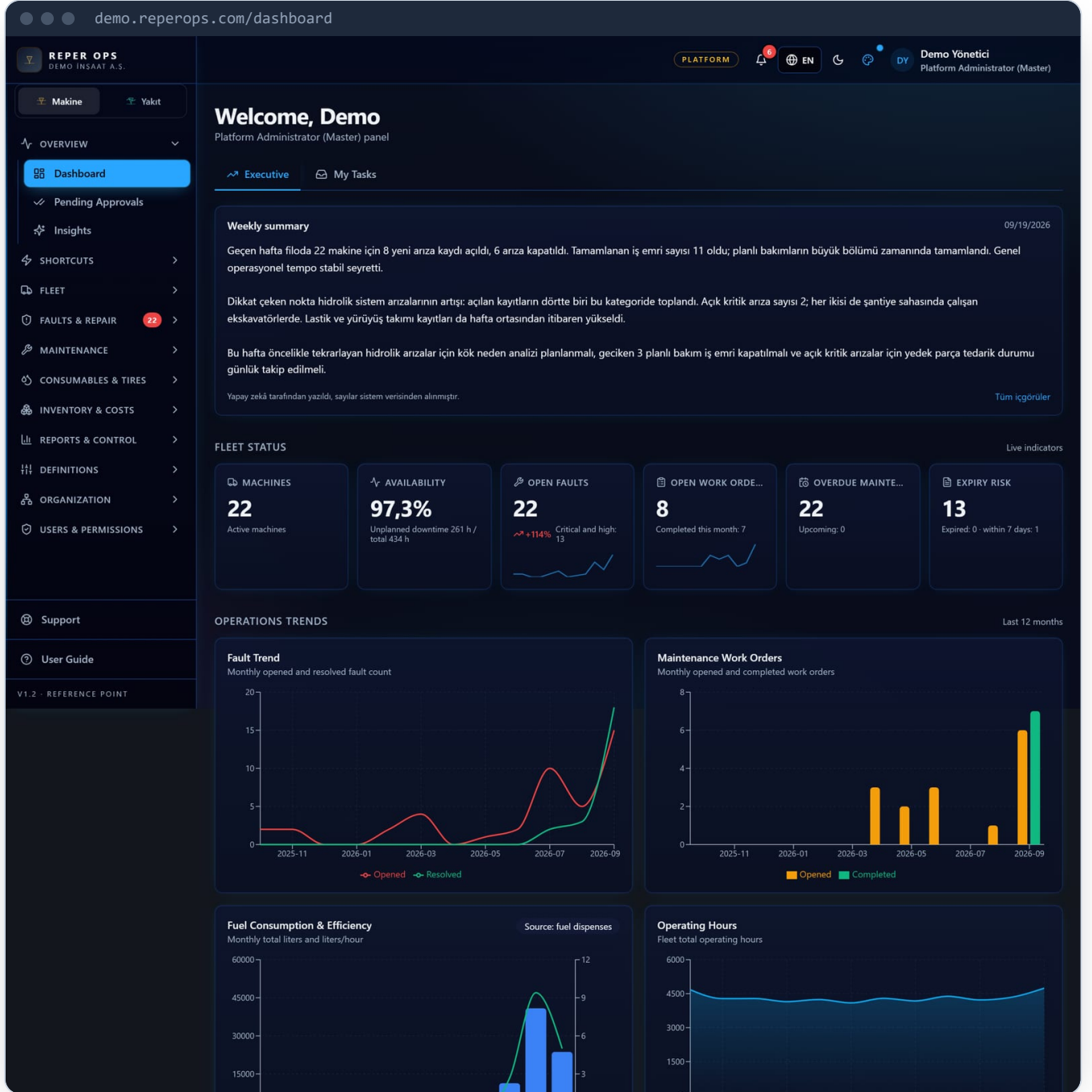
Single record

When the queue sends, the same action is not created twice

No training: scan QR and the form opens for the right machine.

Today's picture on one screen.

The dashboard offers four role-based views: Command, Executive, Task and Bento. Open faults, upcoming and overdue maintenance, risky machines, low stock, expiring documents and contracts, fuel variances and availability appear at a glance.



Executive dashboard — open faults, upcoming maintenance, risky machines and availability summary

- ✓ **View choice is saved per user** — Command, Executive, Task or Bento.
- ✓ **One click from cards to lists** — from counts straight to records.
- ✓ **Project/company filter applies to the whole dashboard** — narrow with one selection.
- ✓ **Cost and KPI summaries in Executive view** — short summary for management.

Who benefits

Site superintendent · Maintenance manager · Executive management

Your fleet's complete, up-to-date register.

Construction machines, trucks, equipment and facilities are kept in separate groups. Machine code, plate/VIN, make-model, year, status, project and location in one list; columns are customizable, list exports to Excel and PDF.

The screenshot shows the 'Machines' section of the REPER OPS application. The interface includes a sidebar with navigation options like Overview, Shortcuts, Fleet, Attachments, Documents, Vehicle Tracking, Faults & Repair, Maintenance, Consumables & Tires, Inventory & Costs, Reports & Control, Definitions, Organization, Users & Permissions, Support, and User Guide. The main area displays a table of machines with the following columns: Makine Kodu, Araç Cinsi, Marka, Model, Plaka, Yapım Yılı, Durum, and Birim. The table contains 22 records, with the first six visible. The status of each machine is indicated by a colored dot: red for 'Out of Service', blue for 'Faulted', and green for 'Active'.

Makine Kodu	Araç Cinsi	Marka	Model	Plaka	Yapım Yılı	Durum	Birim
DEMO-001	İş Makineleri	CATERPILLAR	320	—	2.021	Out of Service	Şantiye-1 Kazı
DEMO-002	İş Makineleri	KOMATSU	PC210	—	2.021	Out of Service	Şantiye-2 Nakliye
DEMO-003	İş Makineleri	HYUNDAI	R250	—	2.018	Faulted	Bakım Atölyesi
DEMO-004	İş Makineleri	CATERPILLAR	950	—	2.022	Active	Şantiye-1 Kazı
DEMO-005	İş Makineleri	CATERPILLAR	140	—	2.020	Out of Service	Şantiye-2 Nakliye
DEMO-006	İş Makineleri	BOMAG	BW213	—	2.023	Active	Bakım Atölyesi

Machine list — with group, status, project and ownership

- ✓ **Natural sort** — machine codes sort 1, 2, 10.
- ✓ **Brand normalization** — 'CAT', 'Caterpillar' as one brand.
- ✓ **Ownership** — owned / rented badges.
- ✓ **Warranty and contract status** — visible in the list.

Machine statuses and fuel types

Statuses such as active, in maintenance, faulted, rented and diesel/electric/hybrid fuel types are defined per company.

Group-based setup

Construction machines, trucks, equipment and facilities sit in separate groups; each runs its own checklists and maintenance programs.

Project, location and transfer

Which project and site a machine is on is visible in the list; transfers between sites post to the machine record.

List your way

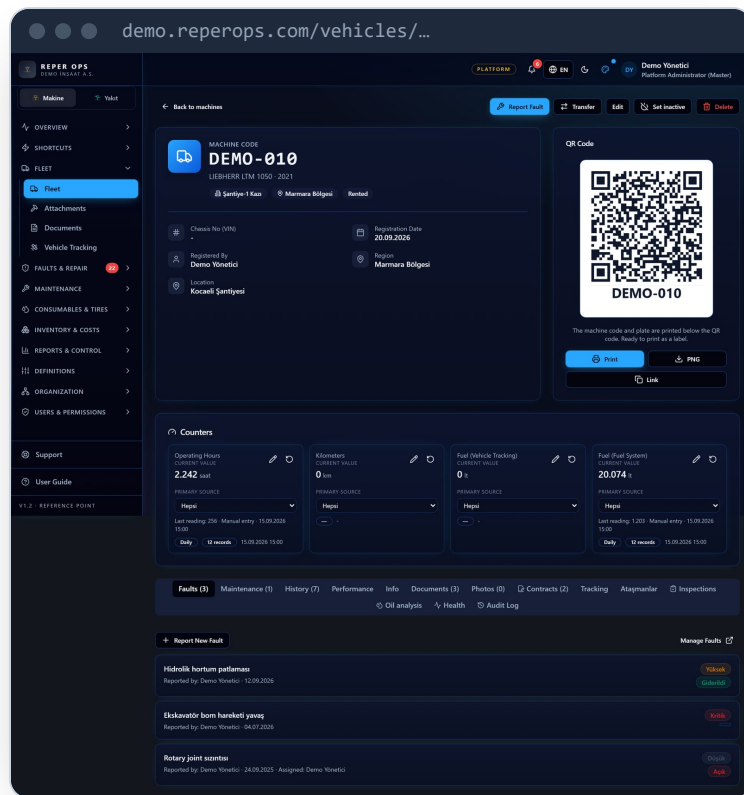
Column selection is saved per user; filtered list exports to Excel and PDF.

Who benefits

Fleet manager · Site superintendent · Maintenance manager

Everything about one machine, in tabs.

Identity, counters, faults, maintenance, documents, tires, cost and history in one tabbed record.

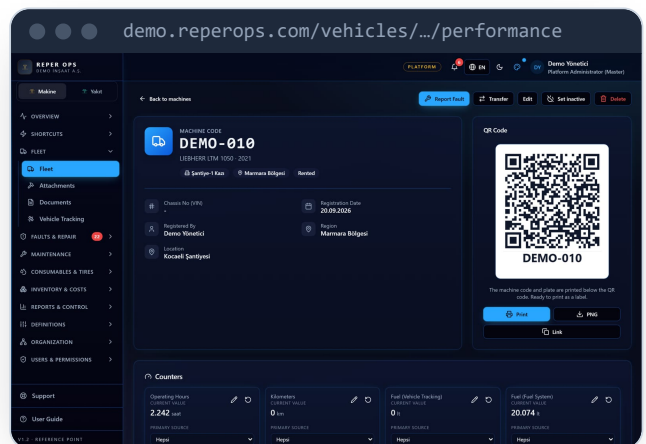


- ✓ **General** — identity, counters, QR label
- ✓ **Maintenance** — program, next service, overdue items
- ✓ **Faults and work orders** — open/closed history
- ✓ **Tires and documents** — mounts, tread depth, document expiry
- ✓ **Contracts** — rental, service, insurance
- ✓ **Oil analysis** — lab results and trends
- ✓ **Health** — consumption anomalies and risk score
- ✓ **Performance** — availability, downtime records
- ✓ **History** — transfers, operators, audit trail

Machine record — general info, counters and tabs



Health tab — risk score and anomaly



Performance tab — downtime and availability

Health score

Consumption variances and fault frequency feed the risk score.

Downtime and availability

Inoperable fault starts downtime record; rate and duration visible.

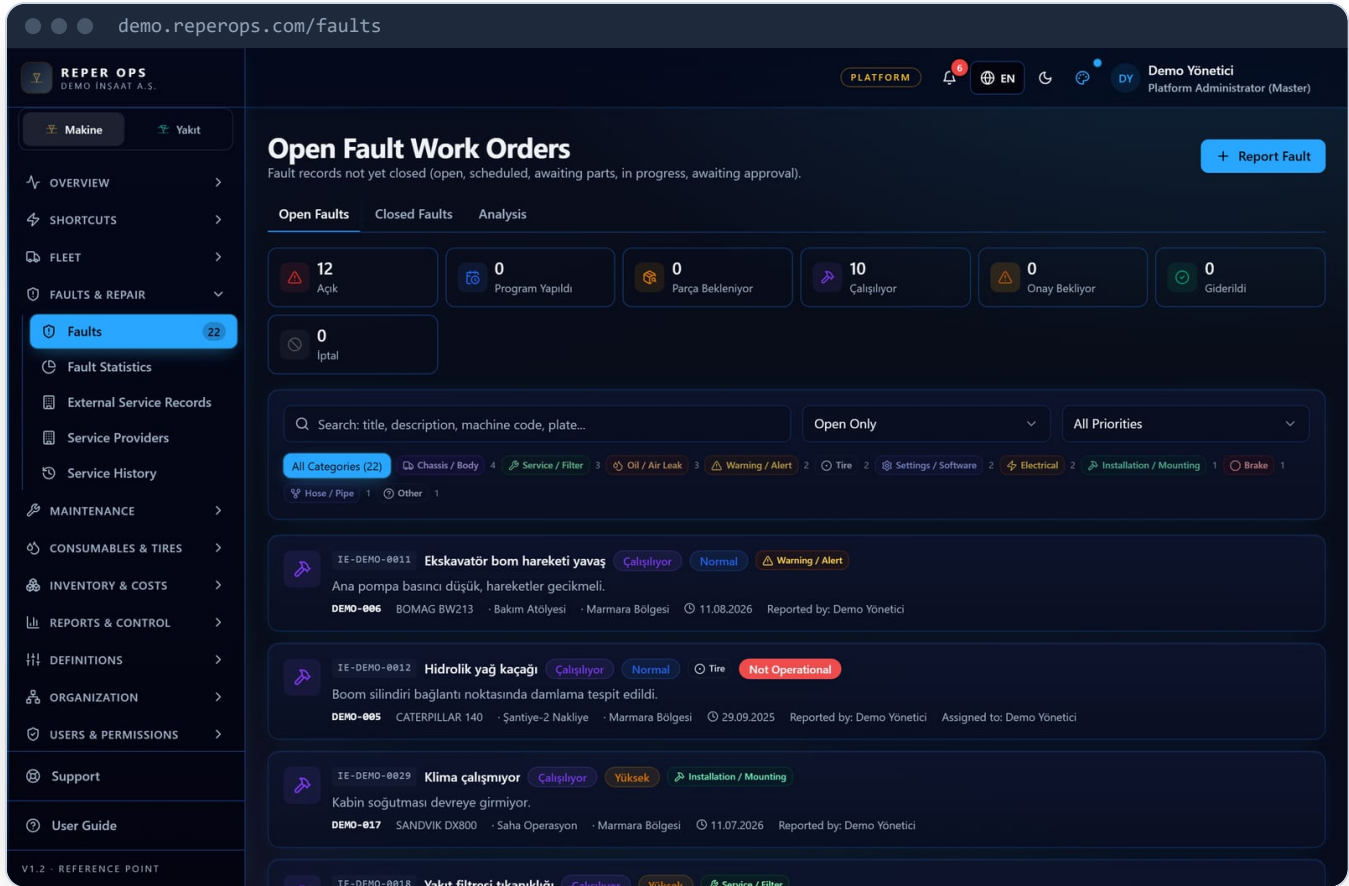
History and audit trail

Transfers, operators and changes kept with who-when details.

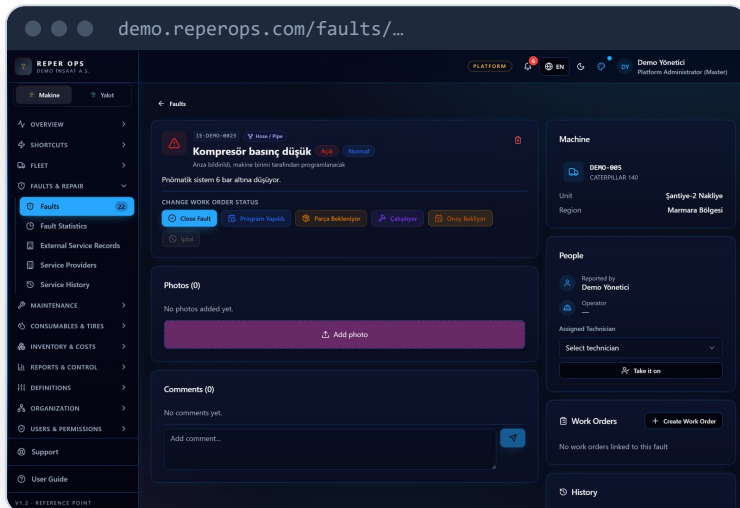
Who benefits Fleet manager · Maintenance manager · Site superintendent

From site report to close-out, one flow.

Faults open from QR, mobile or desktop with category, priority, operability, photo and operator info. Under warranty is flagged automatically; inoperable status starts downtime automatically.



Fault list — status, priority, machine and warranty badges



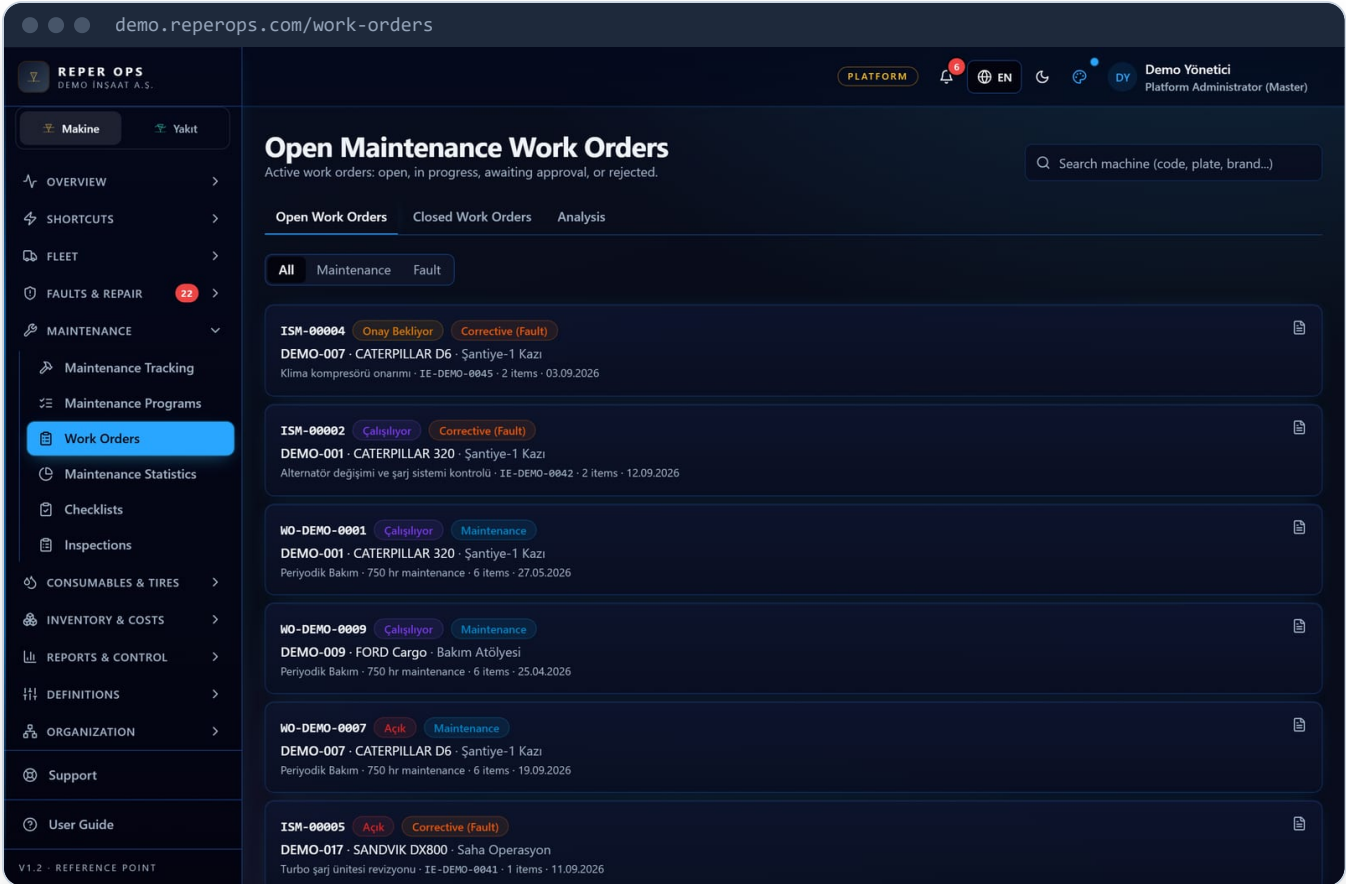
Fault detail — cost card and status history

- ✓ **Approval mode per company** — required, optional or off.
- ✓ **One-click close** — dates pre-filled.
- ✓ **Convert to work order** — corrective work order opens linked to the fault.
- ✓ **Cost card** — labor, parts, outside service.
- ✓ **Comments and status history** — who, when, what.

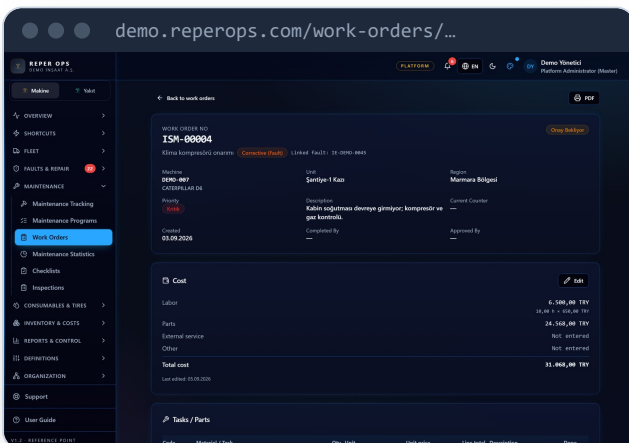
Who benefits Site superintendent · Maintenance manager · Operator

Preventive and corrective work in the same discipline.

Preventive work orders from maintenance programs and corrective ones from faults are managed in one list, one flow: plan, start, complete, approve.



Work order list — type, status, machine and planned date



Work order detail — parts, labor and cost

- ✓ **Part reservation** — reserved from warehouse when opened, consumed when completed.
- ✓ **Cost** — labor hours × rate, parts, outside service, other.
- ✓ **Task list** — checklist items link to the work order.
- ✓ **Complete + approve** — close in one step, optional approval chain.
- ✓ **Status history** — who, when.

Preventive work orders from maintenance programs build the shop morning list automatically.

Who benefits Maintenance manager · Shop technician · Site superintendent

Maintenance triggered by counter, calendar or both.

Make-model maintenance programs defined at intervals such as 250 hours, 500 hours, 6 months. Trigger mode can be counter, calendar or both; whichever comes first creates the work order.

Maintenance Dashboard
Upcoming and overdue maintenance for machines in your scope.

OVERDUE: 22 **APPROACHING: 0** **ON TRACK: 0** **OPEN WORK ORDERS: 5**

Machine	Program	Current	Next	Remaining	Stock	Action
DEMO-003 HYUNDAI R250 - Bakım Atölyesi	Periyodik Bakım Maint.: 250 saat	2.671 saat	250 saat	-2.421 saat (overdue)	Stock Shortage	Work Order
DEMO-012 VOLVO EC220E - Bakım Atölyesi	Periyodik Bakım Maint.: 250 saat	2.507 saat	250 saat	-2.257 saat (overdue)	Stock Shortage	Create Work Order
DEMO-004 CATERPILLAR 950 - Şantiye-1 Kazı	Periyodik Bakım Maint.: 250 saat	2.463 saat	250 saat	-2.213 saat (overdue)	Stock Shortage	Create Work Order
DEMO-008 MERCEDES-BENZ Actros - Şantiye-2 Nakliye	Periyodik Bakım Maint.: 250 saat	2.459 saat	250 saat	-2.209 saat (overdue)	Stock Shortage	Create Work Order
DEMO-015 ATLAS COPCO ROC L8 - Saha Operasyon	Periyodik Bakım Maint.: 250 saat	2.447 saat	250 saat	-2.197 saat (overdue)	Stock Shortage	Create Work Order
DEMO-021 NEW HOLLAND E215C - Saha Operasyon	Periyodik Bakım Maint.: 250 saat	2.446 saat	250 saat	-2.196 saat (overdue)	Stock Shortage	Create Work Order
DEMO-002 KOMATSU PC210 - Şantiye-2 Nakliye	Periyodik Bakım Maint.: 250 saat	2.445 saat	250 saat	-2.195 saat (overdue)	Stock Shortage	Create Work Order
DEMO-005 CATERPILLAR 140 - Şantiye-2 Nakliye	Periyodik Bakım Maint.: 250 saat	2.419 saat	250 saat	-2.169 saat (overdue)	Stock Shortage	Work Order

Maintenance dashboard — overdue, upcoming and planned maintenance

Upcoming / Overdue Maintenance
View upcoming, approaching and overdue maintenance.

OVERDUE: 22 **APPROACHING: 0** **MAINTENANCE DASHBOARD**

Machine	Program	Current	Next	Remaining	Stock	Action
DEMO-003 HYUNDAI R250 - Bakım Atölyesi	Periyodik Bakım Maint.: 250 saat	2.671 saat	250 saat	-2.421 saat (overdue)	Stock Shortage	Work Order
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Upcoming maintenance

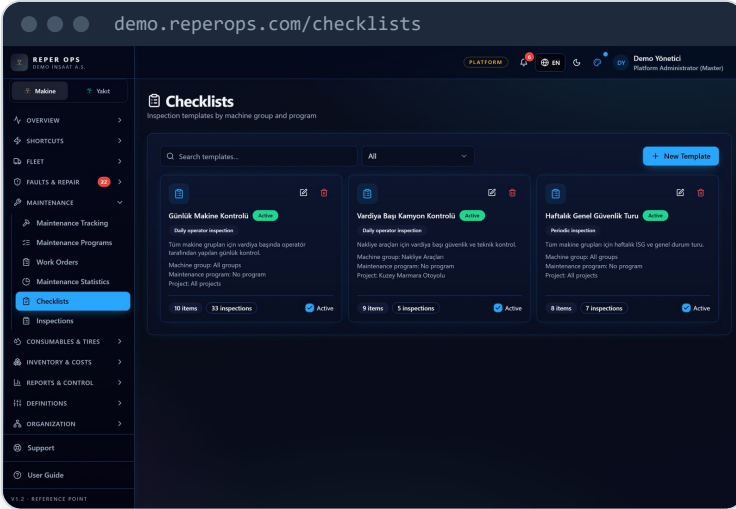
- ✓ **Alert threshold** — how many days/hours before service to notify.
- ✓ **Maintenance parts list** — program items linked to warehouse parts.
- ✓ **Counter from telematics** — operating hours arrive automatically.
- ✓ **Delay badges** — red/orange/green.
- ✓ **Bulk assignment** — apply program to a machine group.

Counter comes from telematics or the field; alert threshold is set per company: work order is ready before service day.

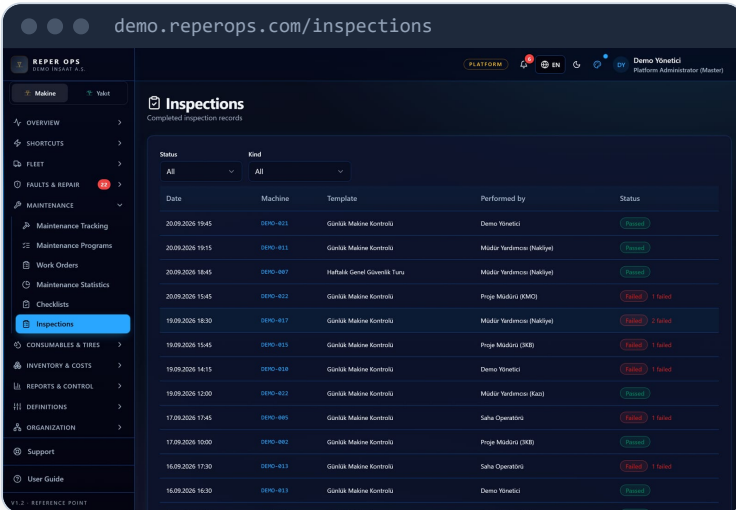
Who benefits Maintenance manager · Fleet manager · Site superintendent

Shift-start checks, paperless.

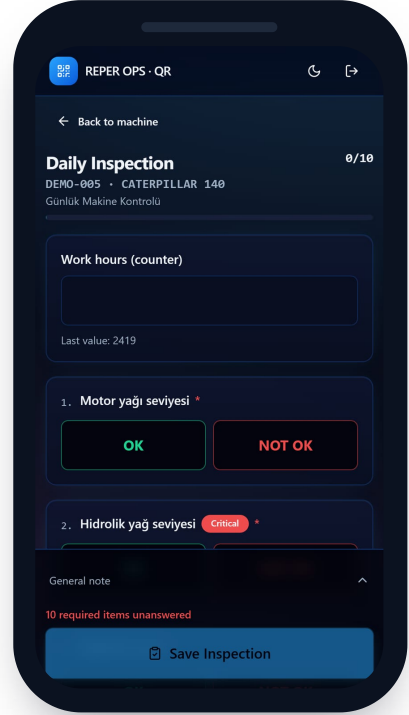
Templates are defined by machine group; the operator scans QR and fills the list. Items can be marked photo-required or critical.



Checklist templates — by machine group



Inspection records — machine, operator and result



Inspection via QR

- ✓ **Critical item → fault** — failed critical item opens a fault automatically.
- ✓ **Work order tasks** — checklist items added to maintenance work orders.
- ✓ **Inspection report** — by machine, operator and date.
- ✓ **Location check** — was the inspection done on site.

Template library

Daily excavator, shift-start truck, weekly safety walk; each group runs its own list.

Photo evidence

Required photos document the check; result ties to machine and operator.

Paperless archive

Inspections are searchable by date, machine and operator; forms live in the audit trail, not a filing cabinet.

A failed critical item opens a fault instantly: the form does not sit in a folder, it becomes a work order.

Who benefits

Site superintendent · HSE officer · Operator

Right part, right warehouse, right time.

Part cards carry machine-type compatibility. Multi-warehouse stock, in/out/transfer/count movements, minimum stock alerts and purchase request flow in one module.

Code	Name	Unit	Warehouse	On hand	Reserved	Available	Avg. cost	Min. stock
ELK-0001	Marş Motoru	adet	3. Köprü Bağlantı Saha Amban	7	0	7	24,000,00 TRY	2
FLT-0001	Motor Yağ Filtresi 1R-0716	adet	3. Köprü Bağlantı Saha Amban	39	0	39	850,00 TRY	12
FLT-0002	Hava Filtresi Primer	adet	3. Köprü Bağlantı Saha Amban	22	0	22	1.450,00 TRY	8
FLT-0003	Hava Filtresi Sekonder	adet	3. Köprü Bağlantı Saha Amban	20	0	20	980,00 TRY	8
FLT-0005	Yakıt Ön Filtresi / Su Ayırıcı	adet	3. Köprü Bağlantı Saha Amban	21	0	21	1.150,00 TRY	6
FLT-0006	Hidrolik Yağ Filtresi	adet	3. Köprü Bağlantı Saha Amban	21	0	21	1.650,00 TRY	6
FLT-0008	Şanzıman Filtresi	adet	3. Köprü Bağlantı Saha Amban	17	0	17	1.350,00 TRY	4
FLT-0009	Kabin Klima Filtresi	adet	3. Köprü Bağlantı Saha Amban	23	0	23	420,00 TRY	6
FRN-0001	Fren Balata Seti	takım	3. Köprü Bağlantı Saha Amban	12	0	12	5.600,00 TRY	4
FRN-0002	Fren Diski	adet	3. Köprü Bağlantı Saha Amban	9	0	9	12.500,00 TRY	2
FRN-0003	Debriyaj Seti	takım	3. Köprü Bağlantı Saha Amban	6	0	6	38.000,00 TRY	1
HID-0002	Hidrolik Hortum 3/4" 4SP	metre	3. Köprü Bağlantı Saha Amban	105	0	105	950,00 TRY	30
KAB-0002	Yan Ayna	adet	3. Köprü Bağlantı Saha Amban	18	0	18	1.850,00 TRY	4

Warehouse and stock — part cards, quantities and minimum stock alerts

- ✓ **Work order integration** — parts reserved, consumed on completion.
- ✓ **Weighted average cost** — consumption cost calculated automatically.
- ✓ **Purchase request** — draft → request → order → receipt.
- ✓ **Low stock** — on dashboard and in notifications.
- ✓ **Inventory report** — value by warehouse and part.

Part	Code	Quantity	Amount	Movements	Machines
Lüleli 23.5R25 L3	LST-0001	4,0	740,000,00	4	0
Debriyaj Seti	FRN-0003	12,0	456,000,00	12	0
Turbo Seti	MTB-0004	3,0	276,000,00	3	0
Car Digital (Sprinkler)	VUR-0005	9,0	198,000,00	9	0
Fren Balata Seti	FRN-0001	30,0	168,000,00	15	0
Kasko Bujik 8 dala	KAZ-0003	17,0	166,000,00	8	0
Akumulator 24V	ELK-0002	7,0	136,500,00	7	0
Many Motoru	ELK-0001	5,0	120,000,00	5	0
Alt Makara	VUR-0004	7,0	101,500,00	7	0
Pakt Baklasi	VUR-0002	19,0	77,500,00	9	0
Fren Diski	FRN-0002	4,0	50,000,00	4	0
Far Grubu LED	KAB-0001	11,0	46,200,00	4	0
Tappan Makara	VUR-0001	5,0	44,500,00	2	0
Pakt Paburu 600 mm	VUR-0001	13,0	41,400,00	5	0
Yan Ayna	KAB-0002	21,0	38,850,00	8	0
Hidrolik Hortum 1" 4SP	HID-0001	30,0	37,500,00	5	0
Hidrolik Yağ Filtresi	FLT-0006	19,0	31,350,00	12	0

Inventory report

Part card matches machine type: the technician opening the work order picks the right part from the list.

Who benefits Warehouse manager · Procurement · Maintenance manager

True cost per machine.

Every work order and fault is costed with labor (hours × rate), parts, outside service and other lines. Rental fees and transfer costs also post to the machine; reported by project, machine and month.

demo.reperops.com/costs

REPER OPS
DEMO İNŞAAT A.Ş.

PLATFORM

EN

DY Demo Yönetici
Platform Administrator (Master)

← Reports

Cost Report

Maintenance, fault, external service, tire and rental cost per machine × period; cost per hour based on working hours.

This month Machine Search machine, plate, brand... Columns 9 TRY 22 records Export

Machine	Brand/Model	Project	Hours (h)	Maintenance	Fault	Tires	Total	Per l
DEMO-002	KOMATSU PC210	Kuzey Marmara Otoyolu	210,0	52.721,00	17.270,00	0,00	69.991,00	
DEMO-015	ATLAS COPCO ROC L8	Kuzey Marmara Otoyolu	257,0	0,00	58.700,00	0,00	58.700,00	
DEMO-006	BOMAG BW213	Kuzey Marmara Otoyolu	210,0	32.587,00	23.380,00	0,00	55.967,00	
DEMO-007	CATERPILLAR D6	Kuzey Marmara Otoyolu	210,0	31.068,00	21.680,00	0,00	52.748,00	
DEMO-003	HYUNDAI R250	Kuzey Marmara Otoyolu	210,0	0,00	43.000,00	0,00	43.000,00	
DEMO-010	LIEBHERR LTM 1050	Kuzey Marmara Otoyolu	256,0	15.635,00	17.100,00	0,00	32.735,00	
DEMO-008	MERCEDES-BENZ Actros	Kuzey Marmara Otoyolu	210,0	29.675,00	0,00	0,00	29.675,00	
DEMO-005	CATERPILLAR 140	Kuzey Marmara Otoyolu	210,0	0,00	28.310,00	0,00	28.310,00	
DEMO-016	PUTZMEISTER M36-4	Kuzey Marmara Otoyolu	189,0	0,00	0,00	0,00	27.000,00	
DEMO-001	CATERPILLAR 320	Kuzey Marmara Otoyolu	210,0	0,00	24.630,00	0,00	24.630,00	
DEMO-013	HITACHI ZX200	Kuzey Marmara Otoyolu	246,0	0,00	20.660,00	0,00	20.660,00	
DEMO-021	NEW HOLLAND E215C	3. Köprü Bağlantı	208,0	0,00	17.800,00	0,00	17.800,00	
DEMO-004	CATERPILLAR 950	Kuzey Marmara Otoyolu	210,0	12.835,00	0,00	0,00	12.835,00	
DEMO-009	FORD Cargo	Kuzey Marmara Otoyolu	215,0	0,00	0,00	0,00	0,00	
DEMO-011	JCB 3CX	Kuzey Marmara Otoyolu	253,0	0,00	0,00	0,00	0,00	
DEMO-012	VOLVO EC220E	Kuzey Marmara Otoyolu	217,0	0,00	0,00	0,00	0,00	
DEMO-014	CASE CX130	Kuzey Marmara Otoyolu	173,0	0,00	0,00	0,00	0,00	

Cost report — source breakdown by project, machine and month

- ✓ **Labor rate** — hourly rate by project.
- ✓ **Currency** — TRY/USD/EUR, by project.
- ✓ **Permission** — view and edit cost are separate rights.
- ✓ **Source breakdown** — maintenance / fault / rental / transfer.

demo.reperops.com/settings/labor-rates

REPER OPS
DEMO İNŞAAT A.Ş.

PLATFORM

EN

DY Demo Yönetici
Platform Administrator (Master)

Labor Rates

Default hourly labor rates per project or tenant-wide. Labor cost is calculated automatically as hours × rate.

Project	Role code	Hourly rate	Valid from	Valid to	Active	Note
Kuzey Marmara Otoyolu	None	560,00 TRY	01.01.2026	Open-ended	Active	Kuzey Marmara Otoyolu saha içi işçilik ücreti
3. Köprü Bağlantı	None	620,00 TRY	01.01.2026	Open-ended	Active	3. Köprü Bağlantı saha içi işçilik ücreti
All projects (global)	None	520,00 TRY	01.01.2026	Open-ended	Active	Tenant genel vatan dışı işçilik ücreti

Labor rates

Cost is not separate data entry; when a work order closes, labor, parts and outside service post to the machine automatically.

Who benefits Finance · Fleet manager · Executive management

One data backbone

Each product works on its own. Together they share one company, project, machine and cost reality.



Reper Axis

EQUIPMENT

Equipment registry and meter history
Preventive maintenance, faults and work orders
Machine cost and reports
QR logging and machine access from the field



Reper Mass NEW

MATERIALS

Warehouse, stock and labels
Material requests and approval
Stock movements and cost allocation
Pick lists and minimum stock alerts



Reper Flux

COMING SOON FUEL

Tank and dispense measurement
Verified litre records
Leak and reconciliation alerts
Fixed and mobile tank inventory

Axis → Mass: work order → material request **Mass → Axis:** stock issue → work order cost **Flux → Axis:** verified litres → machine cost

Shared layer (Reper Ops platform) — Projects · Users and permissions · Material requests · Notifications · Audit trail · API · Reporting · AI

WHEN PURCHASED TOGETHER

Capability	Axis only	Axis + Mass	Axis + Flux
Machine registry and maintenance	✓	✓	✓
Work order parts picked from stock	—	✓	—
Material requests and approval chain (CORE)	✓	✓	✓
Site warehouse, racks, barcodes	—	✓	—
Pick list and stock cost to work order	—	✓	—
Manual / API fuel logging	✓	✓	✓
Device-measured litres and reconciliation	—	—	✓
Verified fuel cost to machine	—	—	✓

SHARED LAYER — IN EVERY DEPLOYMENT



Projects and organization

Company, project, unit and location records sit in one hierarchy.



Users and permissions

Role, module visibility and project scope are assigned per user.



Material requests and approval

Approval steps and delegation are tracked by request type.



Notifications

Event type and channel preference are set in the user profile.



Audit trail

Create, update and export actions are logged.



API and telematics

REST endpoints and telemetry links are defined per project.



Reporting

Tables can be exported with project and date filters.



AI

Suggestions and scan results are not saved without user confirmation.

From tank to machine, liter by liter.

Fixed tanks and mobile tankers are tracked in inventory; fills, transfers and vehicle refueling are logged. The operator scans QR and enters liters; tank level updates instantly. Pump automation can send records directly via API key.

The screenshot shows the 'Dolum Kayıtları' (Dispensing Records) section of the REPER FLUX web application. The interface includes a sidebar with navigation options like 'GENEL', 'OPERASYON', 'KONTROL', and 'KURULUM'. The main area displays a table of fuel transactions with columns for Date, Tank, Machine, Operator, Liters, and Status. The table contains several rows of data, including transactions for 'Ana Sabit Tank' and 'Mobil Tanker'.

Tarih	Kap	Makine	Operatör	Litre	Sıra	Saat / km	Kontrol	Kaynak
17.09.2026 17:26	Ana Sabit Tank	—	—	212	57417 → 57629	1671.8 (HOUR)	Litresini seçin	Çihaz
17.09.2026 16:46	Mobil Tanker 2	—	—	60	600 → 660	1390.5 (HOUR)	Ekle + anahtark	Çihaz
17.09.2026 13:34	Ana Sabit Tank	—	—	334	51815 → 52149	1509.6 (HOUR)	Ekle + anahtark	Çihaz
17.09.2026 11:09	Mobil Tanker 1	—	—	101	6272 → 6373	1388.8 (HOUR)	Ekle + anahtark	Ekle
17.09.2026 10:11	Ana Sabit Tank	—	—	66	54320 → 54386	1550 (HOUR)	Ekle + PIN	Çihaz
17.09.2026 09:32	Ana Sabit Tank	—	—	110	63172 → 63281	1508.2 (HOUR)	Ekle + anahtark	Çihaz
16.09.2026 21:58	Mobil Tanker 2	—	—	185	4994 → 5179	1553.2 (HOUR)	Litresini seçin	Ekle
16.09.2026 20:48	Mobil Tanker 2	—	—	179	660 → 839	1569.4 (HOUR)	Ekle + anahtark	Ekle

Fuel module — transactions, tanks, reconciliation, devices. Manual/API (Axis); device measure → Reper Flux (soon).

The screenshot shows the 'REPER OPS - QR' mobile application interface. It features a 'Back to machine' button, a 'Fuel Dispensing' section with a QR code, and a form to record fuel dispensed to a machine. The form includes fields for 'Tank' (No tank / external), 'Liters' (input field), 'Operating hours' (input field), and 'Unit price - Note' (dropdown). A 'Save Dispensing' button is at the bottom.

Fuel fill via QR

- ✓ **Telematics reconciliation** — fill records compared to telematics consumption; alert if variance threshold exceeded
- ✓ **L/hour consumption** — by machine and group
- ✓ **Tank alarm** — notification when level drops below minimum
- ✓ **Device keys** — secure API access for pump automation
- ✓ **Flows to cost** — fuel expense posts to machine cost report

1

Define tanks

Fixed tanks and mobile tankers enter inventory.

2

Scan on site

Operator enters liters and counter reading via QR.

3

View reconciliation

Fills are compared to telematics consumption.

4

Post to cost

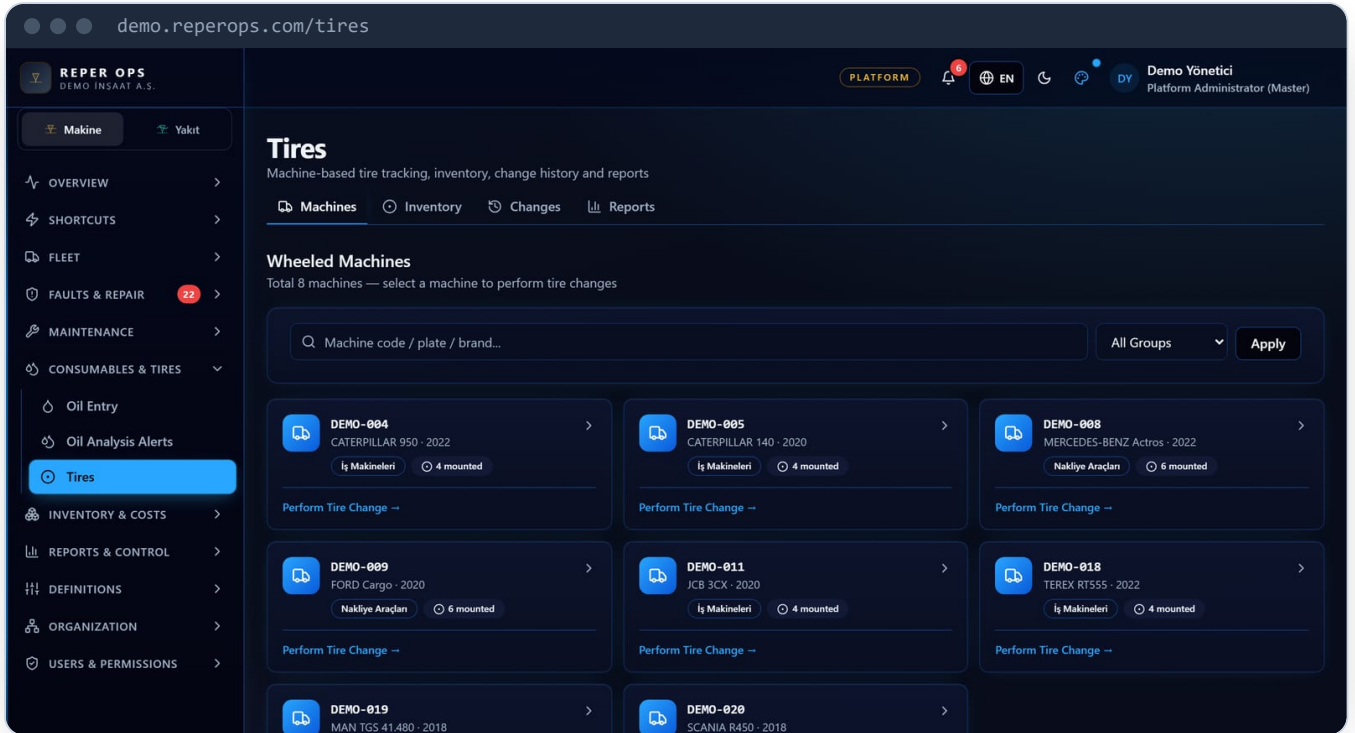
Fuel expense flows to machine and project reports.

Who benefits

Site superintendent · Fuel manager · Finance

Every tire life is tracked.

Tire configuration (axle/position) is defined per vehicle; tires are stocked by serial number, mounted, dismounted and rotated. Tread depth readings and events (puncture, retread, scrap) are recorded.



Tire module — configuration, stock, mounting and readings

- ✓ **Configuration templates** — position diagram by machine group
- ✓ **Mount / dismount history** — which tire ran on which vehicle for how long
- ✓ **Tread depth trend** — replacement timing forecast
- ✓ **View via QR** — tire status on site
- ✓ **Event log** — puncture, cut, retread and scrap in one history
- ✓ **Removed tire returns to stock** — reassessed with remaining life

Tire report

Life and cost comparison by brand, size and vehicle.

Know replacement timing early

Tread depth trend shows when a tire will run out; downtime goes into the plan.

Right position, right tire

Axle and position diagram comes ready by machine group; fewer mounting errors.

Brand decisions based on data

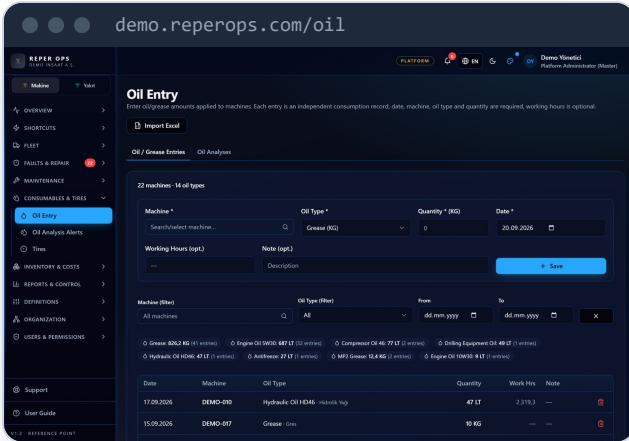
Life and cost comparison shows which brand holds up on which site.

Who benefits

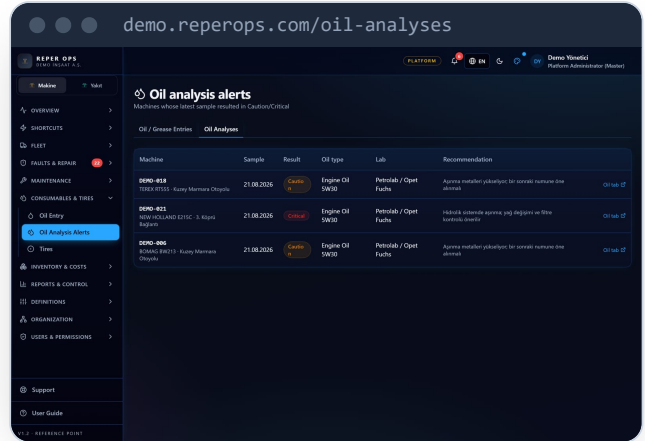
Maintenance manager · Shop supervisor · Finance

Oil consumption and lab results together.

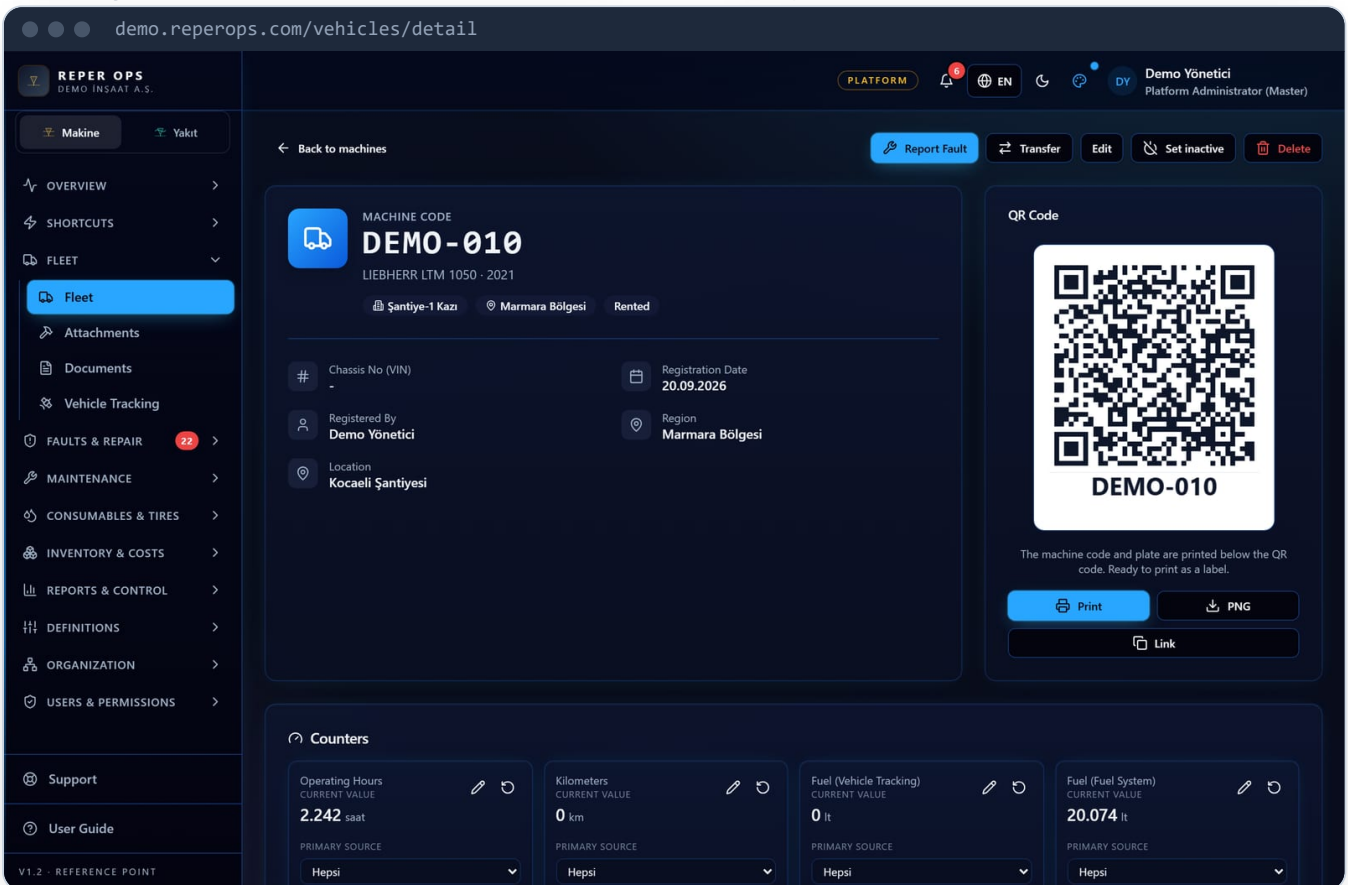
Oil and grease top-ups post to the machine; consumption per 100 hours is tracked. Lab sample results (viscosity, iron, copper, silicon, water, soot, TBN and more) are recorded; evaluated with trend arrows and NORMAL / ATTENTION / CRITICAL status.



Oil tracking



Oil analysis alerts



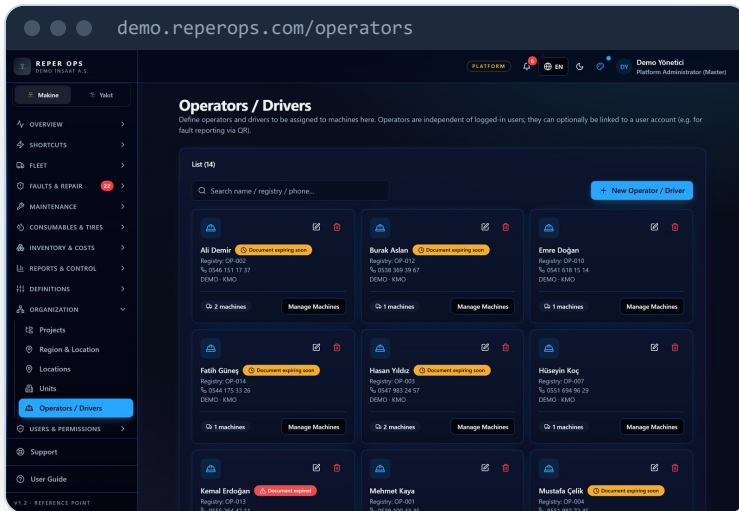
Oil analysis tab on machine record — trend chart and readings

- ✓ **Report attachment** — lab PDF attached to sample
- ✓ **Notification** — ATTENTION/CRITICAL results notify stakeholders
- ✓ **Affects risk score** — critical result raises machine risk

Who benefits Maintenance manager · Shop supervisor

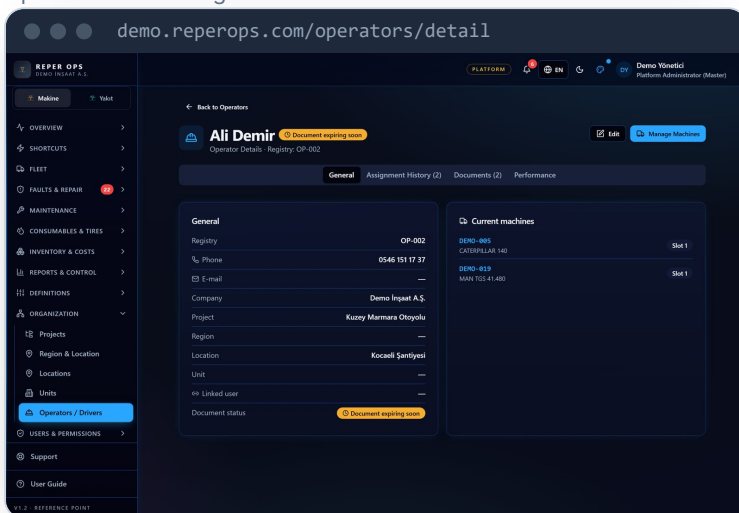
Who operated the machine, are credentials valid?

Operators assigned to machines; assignment history kept. License, SRC, psychometric and safety certificate expiry tracked; upcoming dates on dashboard and notifications.



- ✓ **Assignment history** — which machine, which dates
- ✓ **Credential expiry alerts** — 30 days before
- ✓ **Performance** — fault frequency, inspection completion
- ✓ **Operator selection on fault form**
- ✓ **Operator report**

Operator list — assignments and credential status



Operator record — assignment history, credentials, performance

Credentials do not expire unnoticed

License, SRC, psychometric and HSE certificates notify 30 days before expiry.

Who operated the machine

Assignment history with dates; operator on shift when fault opened is visible.

See training needs

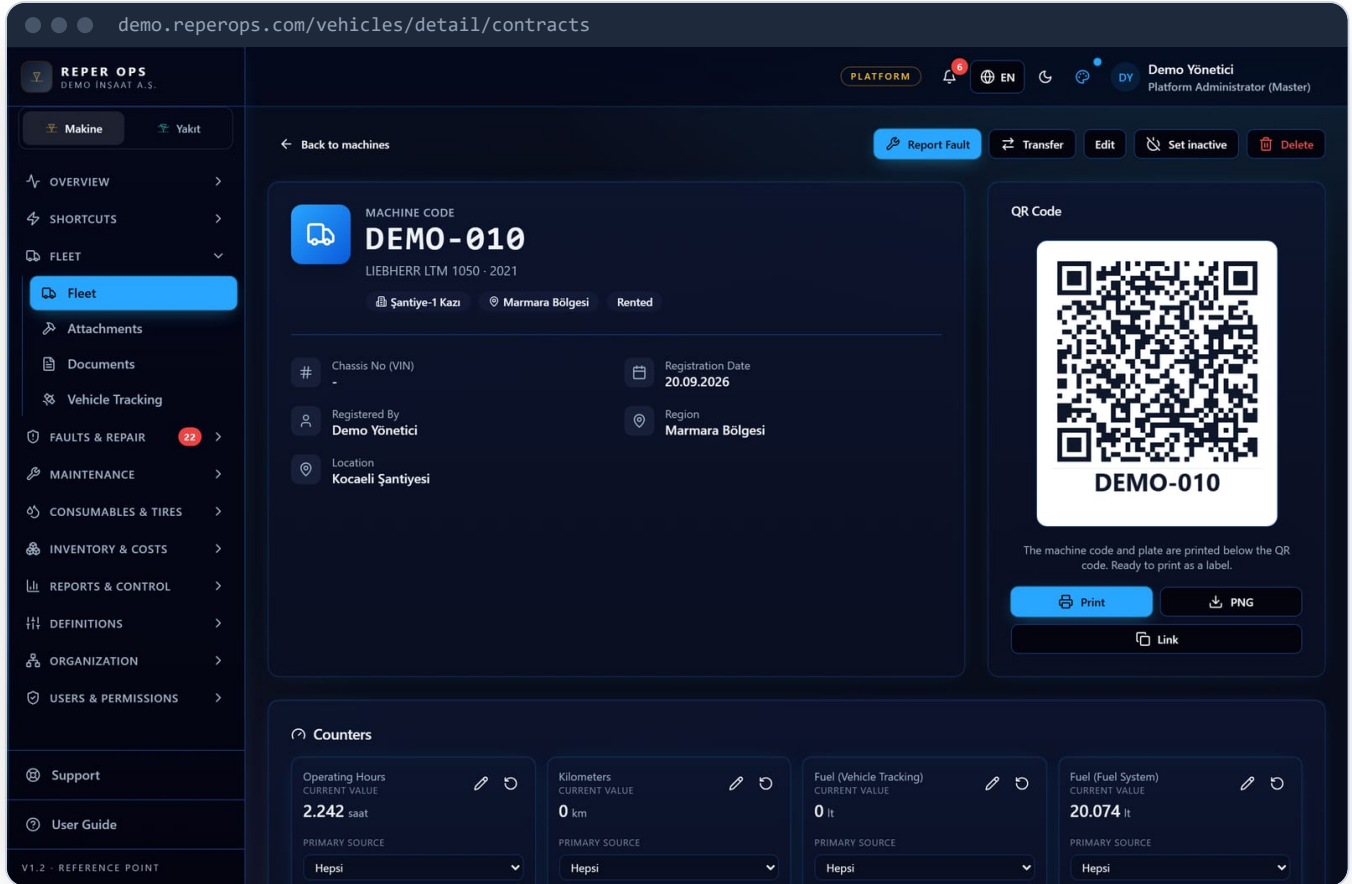
Fault frequency and inspection completion reported by operator.

- ✓ **Departed staff in archive** — past assignments kept; machine history intact.
- ✓ **Operator automatic on QR** — site records match logged-in user.

Who benefits HR · Site superintendent · HSE

Do not miss warranty, do not idle rental.

Machine ownership (owned / rented), purchase info and warranty period (date or operating hours) live on the machine record. Rental, service, insurance and extended warranty contracts are stored with attachments; approaching expiry triggers alerts.



Contracts tab

Site transfer

When a machine moves between sites, a transfer record opens: source/target location and project, haul cost, duration. Transfer time counts as downtime in KPIs.

Location and geofence

Coordinates and radius are defined for locations. If telematics location is outside the registered site, a location mismatch alert is raised.

- ✓ **Under warranty badge** — warranty check automatic when fault opens
- ✓ **Contract expiry alerts** — 30 days before
- ✓ **Rental cost** — monthly fee posts to cost report
- ✓ **Transfer history** — how long the machine stayed on each site is in the record

Do not pay out of pocket for a warranty fault: warranty is checked automatically when the fault opens and the record is flagged with a warranty badge.

Who benefits Fleet manager · Finance

Availability, MTBF and MTTR — by machine and fleet.

Downtime is logged automatically: inoperable fault, maintenance work order, transfer. Availability rate, mean time between failures (MTBF) and mean time to repair (MTTR) are calculated against planned daily operating hours.

Machine	Brand / Model	Project	Downtime (h)	Unplanned (h)	Availability %	Faults	MTBF (h)	MTTR (h)
DEMO-001	CATERPILLAR 320	Kuzey Marmara Otoyolu	32,7	32,7	95,5	2	105,0	16,3
DEMO-002	KOMATSU PC210	Kuzey Marmara Otoyolu	46,7	44,7	93,5	2	105,0	22,3
DEMO-003	HYUNDAI R250	Kuzey Marmara Otoyolu	26,0	21,0	96,4	1	210,0	21,0
DEMO-004	CATERPILLAR 950	Kuzey Marmara Otoyolu	26,0	23,0	96,4	1	210,0	23,0
DEMO-005	CATERPILLAR 140	Kuzey Marmara Otoyolu	16,0	6,0	97,8	2	105,0	6,0
DEMO-006	BOMAG BW213	Kuzey Marmara Otoyolu	28,0	22,0	96,1	1	210,0	22,0
DEMO-007	CATERPILLAR D6	Kuzey Marmara Otoyolu	27,0	14,0	96,2	1	210,0	14,0
DEMO-008	MERCEDES-BENZ Actros	Kuzey Marmara Otoyolu	25,0	4,0	96,5	1	210,0	4,0
DEMO-009	FORD Cargo	Kuzey Marmara Otoyolu	16,0	11,0	97,8	1	215,0	11,0
DEMO-010	LIEBHERR LTM 1050	Kuzey Marmara Otoyolu	31,0	25,0	95,7	1	256,0	25,0
DEMO-011	JCB 3CX	Kuzey Marmara Otoyolu	28,0	0,0	96,1	0	—	—
DEMO-012	VOLVO EC220E	Kuzey Marmara Otoyolu	14,0	0,0	98,1	0	—	—
DEMO-013	HITACHI ZX200	Kuzey Marmara Otoyolu	12,0	0,0	98,3	0	—	—
DEMO-014	CASE CX130	Kuzey Marmara Otoyolu	13,0	0,0	98,2	0	—	—
DEMO-015	ATLAS COPCO ROC L8	Kuzey Marmara Otoyolu	34,0	29,0	95,3	1	257,0	29,0
DEMO-016	PUTZMEISTER M36-4	Kuzey Marmara Otoyolu	16,0	0,0	97,8	0	—	—
DEMO-017	SANDVIK DY800	2. Köprü Başı	10,0	0,0	98,6	0	—	—

Availability report — fleet and machine breakdown

- ✓ **Top downtime machines** — top 5 on dashboard
- ✓ **12-month downtime chart** — with cause breakdown
- ✓ **Manual downtime record** — permission-based correction
- ✓ **Planned hours** — by company, group or machine

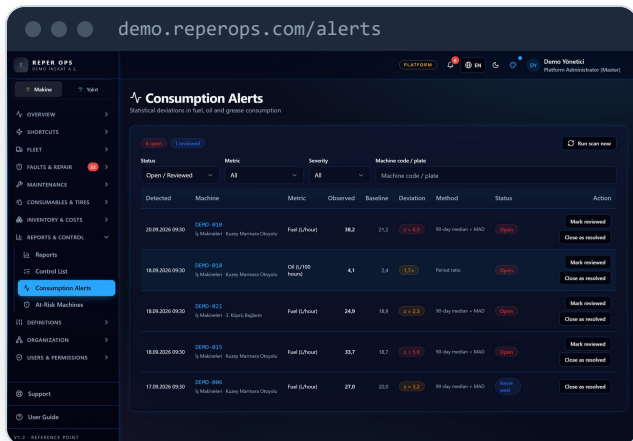
Counters	Value
Operating Hours	2,242 h
Idle Hours	0 h
Fuel (Vehicle Tracking)	0 l
Fuel (Fuel System)	20,074 l

Machine performance tab

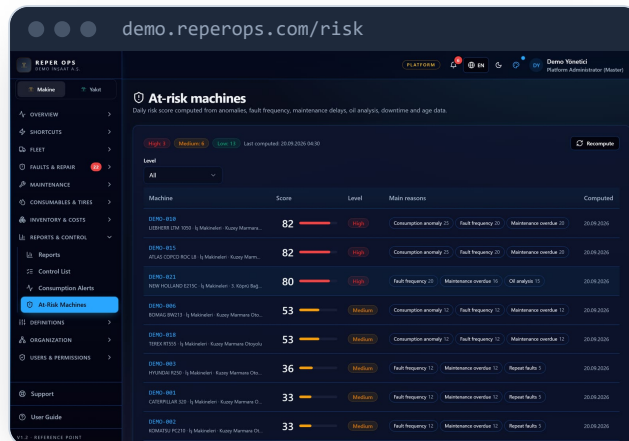
Who benefits Executive management · Fleet manager

Which machine will fault first?

Reper Axis tracks fuel, oil and grease consumption; deviations from machine history and group become alerts. Risk score (0–100) recalculates nightly from anomaly, faults, overdue maintenance, oil analysis, downtime and age.



Consumption anomalies



Risky machines list

LOW

Stay on routine maintenance schedule.

MEDIUM

Increase inspection frequency, review components.

HIGH

Open planned checks and preventive work orders; prepare parts.

1

Data accumulates

Fuel, oil, counter, fault and downtime post to machine.

2

Variance found

Consumption compared to history and group.

3

Score calculated

Risk score refreshes nightly 0–100.

4

Action taken

Preventive work order for risky machine.

Move maintenance forward

Rising score opens preventive work order without waiting for schedule.

Prepare parts early

Critical parts for risky machines ready in warehouse.

Assign critical work to safe machines

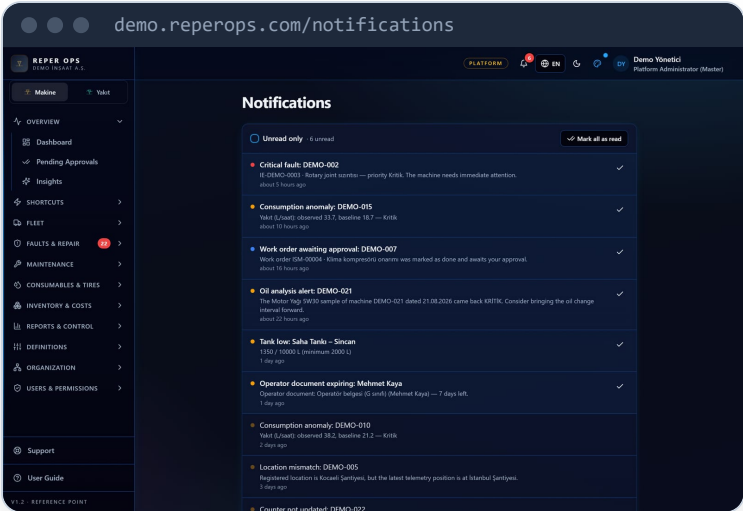
High-risk machines not scheduled for critical work.

- ✓ **Component breakdown** — score drivers visible on machine record
- ✓ **Acknowledge and resolve** — alerts tracked and closed
- ✓ **Anomaly types** — sudden fuel, oil and grease rise or drop
- ✓ **Repeat fault** — same category in short interval affects score
- ✓ **Top of dashboard** — riskiest machines in Executive view

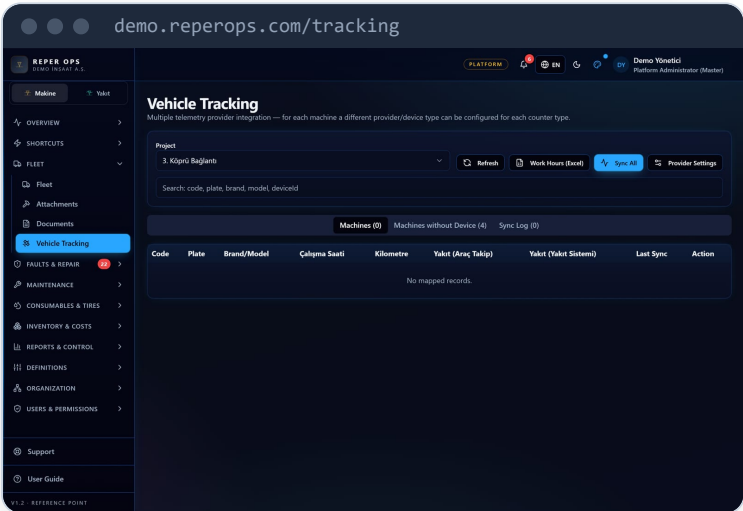
Who benefits Maintenance manager · Executive management

Right person, right time.

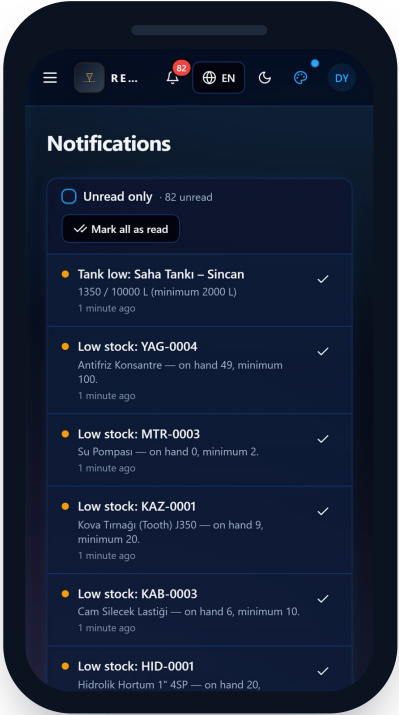
15+ event types: critical fault, work order approval, expiring document/contract/warranty, low stock, fuel variance, consumption anomaly, oil analysis, location mismatch, missing counter and account requests. In-app bell and email (instant or digest). Users manage preferences.



Notification center — event types and preferences



Vehicle tracking — telematics locations on map



Mobile notifications

- ✓ **Daily scan** — every morning expiries and delays
- ✓ **Channel preference** — in-app, email; WhatsApp planned
- ✓ **Linked record** — one click from notification to page

Sample events and trigger timing

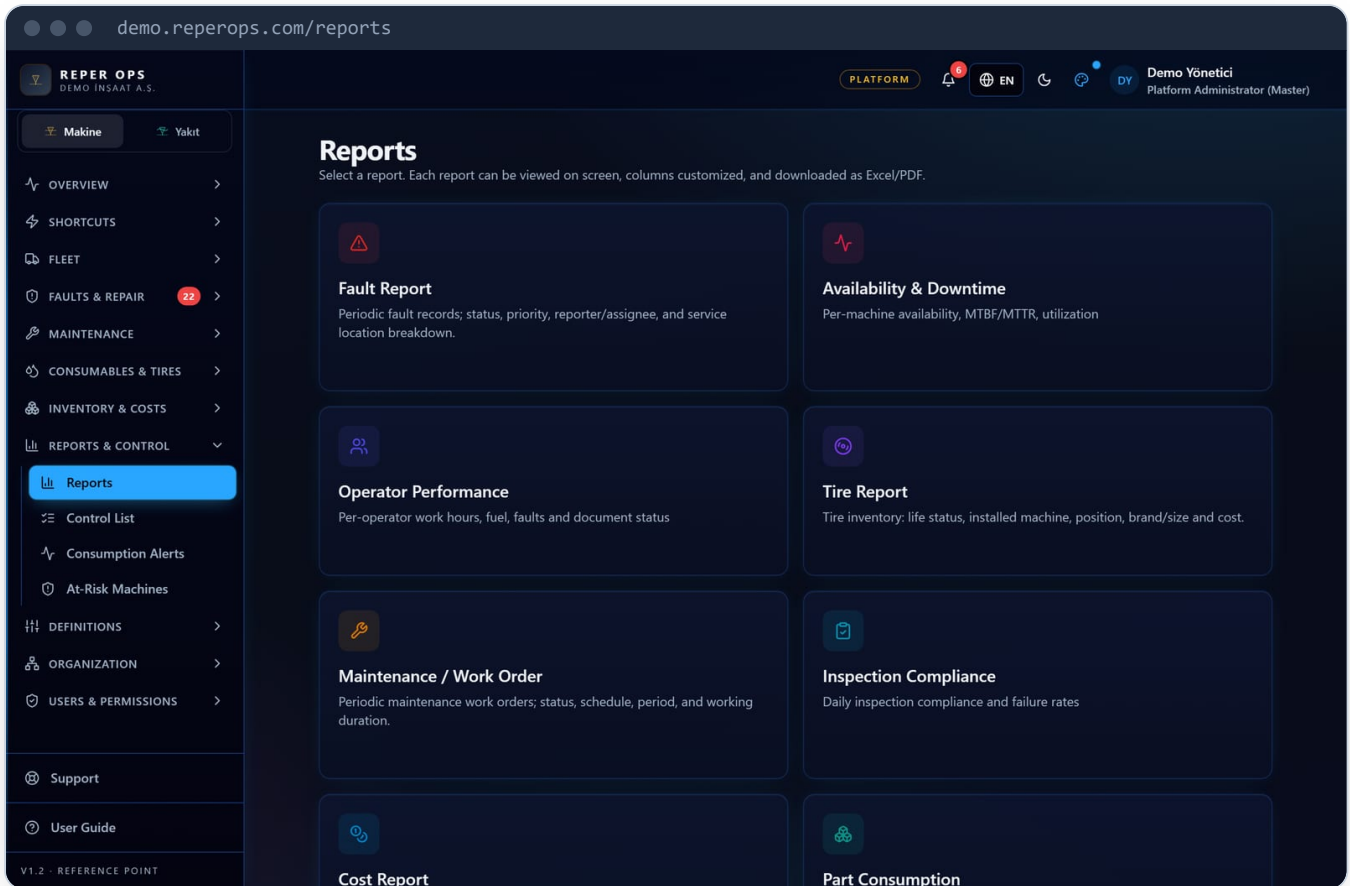
EVENT	WHEN TRIGGERED	SENT TO
Critical fault	Machine-stopping fault opened	Maintenance manager · Site superintendent
Work order approval	Work order reaches approval step	Approval roles
Expiring document/contract	30 days before expiry	Fleet manager · Finance
Low stock	Part below minimum level	Warehouse · Procurement

Who benefits

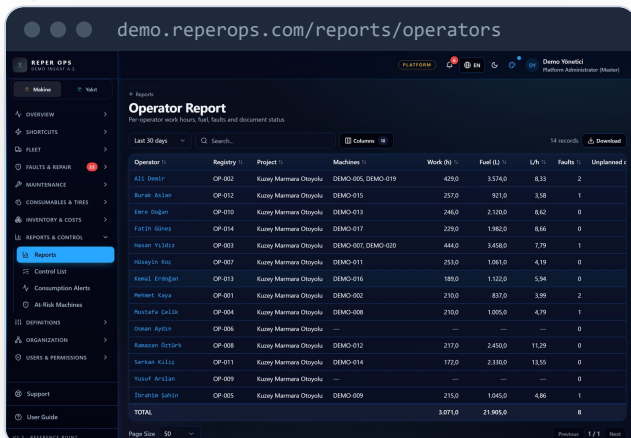
Maintenance manager · Site superintendent · Fleet manager

Ready tables for decisions.

Fault, maintenance, work order, cost, inventory, availability, operator, fuel-hours, tire and oil reports; with project, company, machine group and date filters. All tables export to Excel and PDF.



Report center



- ✓ **No drag-and-drop, no clutter** — each report has one purpose
- ✓ **Scope** — user sees only authorized projects
- ✓ **Export** — Excel/PDF
- ✓ **Audit** — report export logged in audit trail

Operator report

Ready report titles

Fault

Maintenance

Work order

Cost

Inventory

Availability

MTBF / MTTR

Operator

Fuel-hours

Tire

Oil analysis

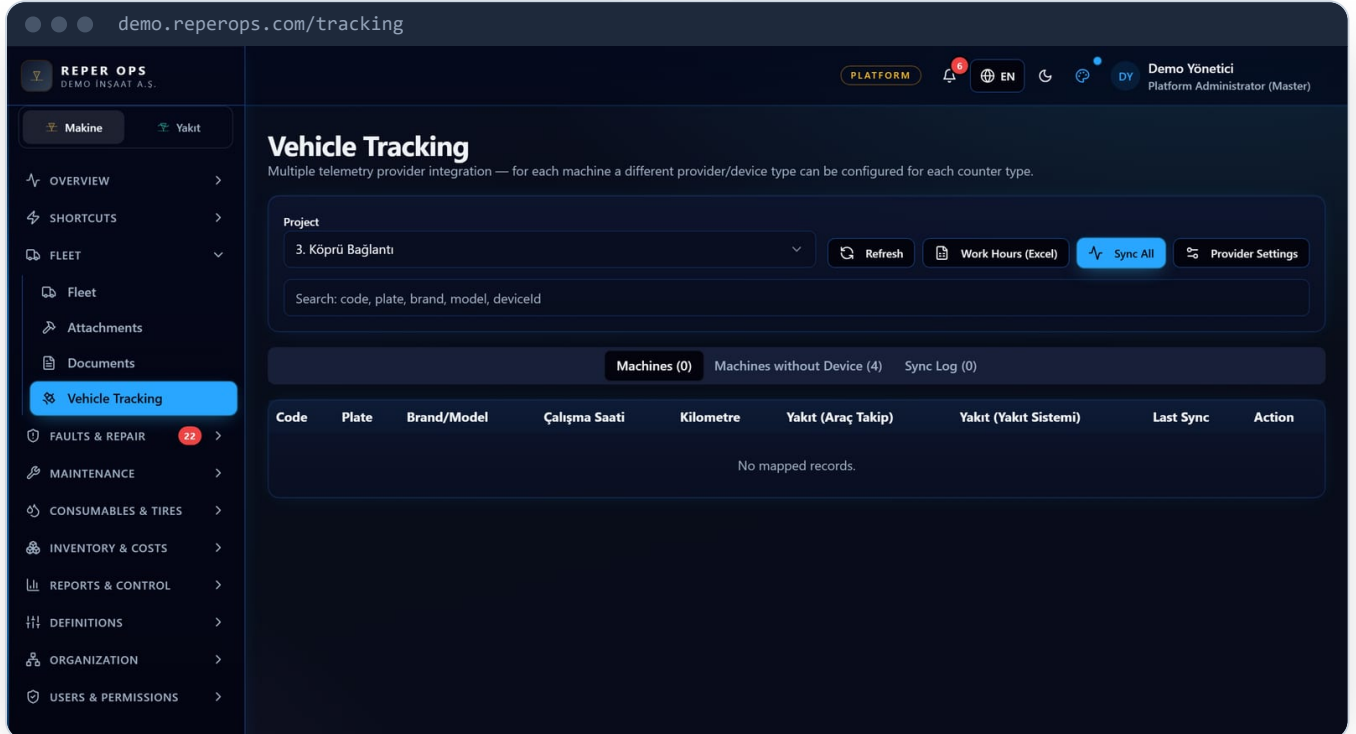
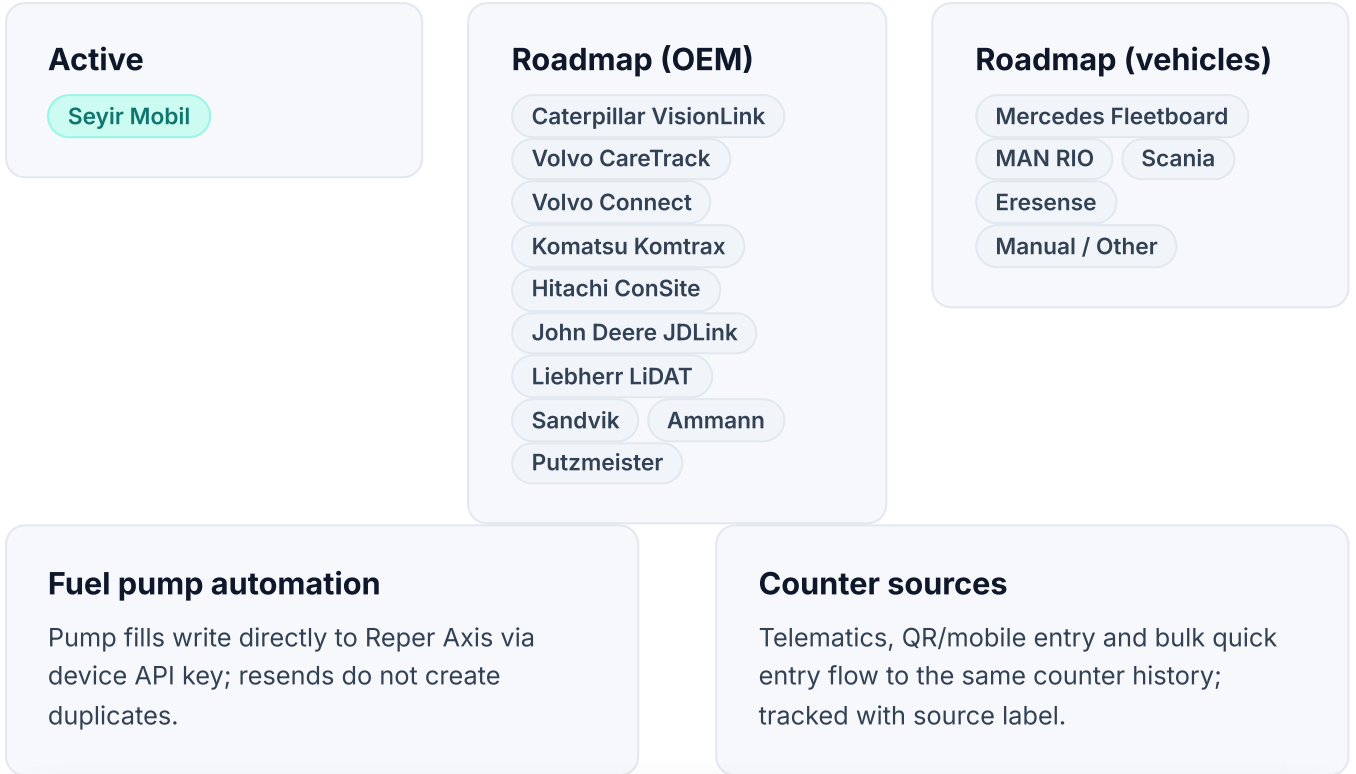
Audit trail

Who benefits

Executive management · Finance · Fleet manager

Counters arrive automatically.

Operating hours, fuel and location data are pulled automatically from telematics providers; maintenance triggers and fuel reconciliation run on this data. Provider connection is defined per project.



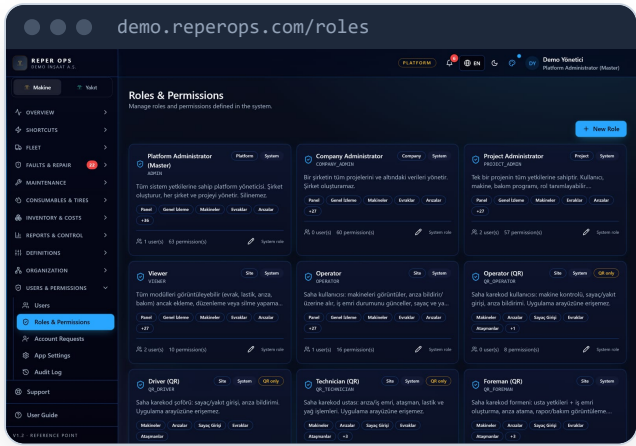
Vehicle tracking map

- ✓ **Primary source selection** — for each machine, choose which channel (telematics, manual entry) governs operating hours; maintenance planning follows that choice

Connection infrastructure is ready for roadmap providers; rollout is planned per customer request.

Everyone sees only their own scope.

Company → project (and project groups) → unit/location hierarchy. Users are authorized by role and scope: a site superintendent sees only their project, a regional manager all projects in the region, a company admin sees all.



Roles and permissions

Users and scopes

- ✓ **Module-based permission** — role sees which modules, plus per-user exceptions
- ✓ **Separate sensitive rights** — view/edit cost, stock management, audit trail
- ✓ **Role rank** — no one manages a role above their own
- ✓ **Account requests** — new user request with admin approval
- ✓ **Approval modes** — fault and work order approval required/optional/off per company

1

Set up structure

Company, region, project and locations defined in hierarchy.

2

Prepare roles

Select modules and sensitive rights each role will see.

3

Assign scope

User sees only assigned company and projects.

4

Handle exceptions

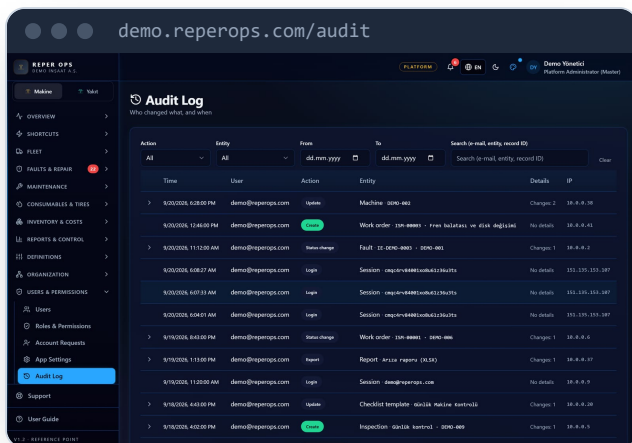
Enable or disable modules for individual users.

SAMPLE ROLE	SCOPE	TYPICAL VISIBILITY
Company admin	Entire company	All modules, cost, audit trail
Regional manager	Projects in region	Dashboard, faults, maintenance, KPIs, cost
Site superintendent	Single project	Faults, work orders, inspections, fuel
Shop technician	Shop and linked projects	Work orders, spare parts, checklists
Operator	Assigned machines	QR actions, fault report, counter entry

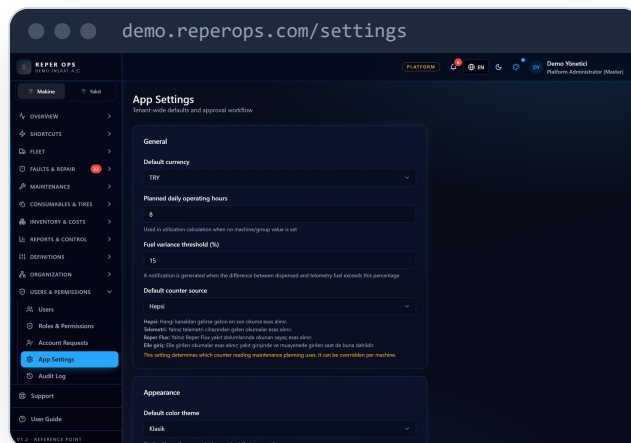
Scope narrows reports as well as lists: a site superintendent's cost report does not go outside their project.

Who benefits Company admin · IT

Your data is isolated, traceable and backed up.



Audit trail — who, when, what changed



Application settings

Isolated database per company

Each customer runs in its own database; data does not mix.

Audit trail

Create, update, delete, status change, login and export records; kept 180 days.

Encrypted communication

HTTPS, session management, password reset email.

Zero-downtime updates

New versions deploy with zero downtime.

Backup

Daily database backups; Europe (Frankfurt) data center.

KVKK compliance

Disclosure, privacy and cookie policies; data processing on record.

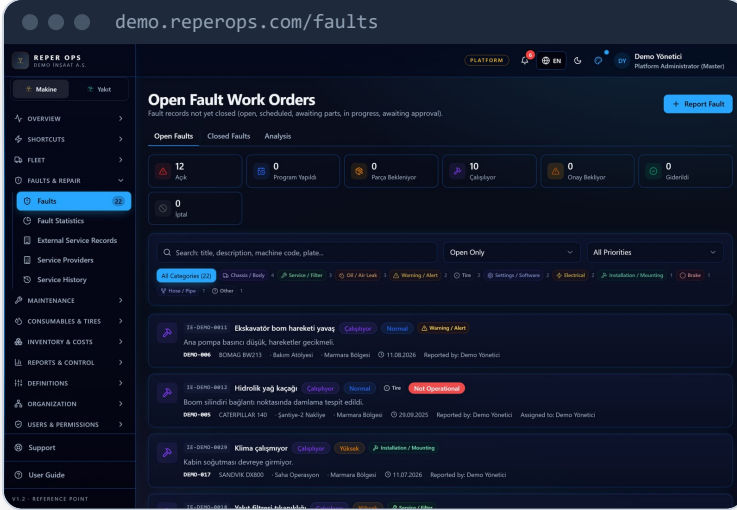
- ✓ **Role and scope-based access** — user sees only authorized projects and modules
- ✓ **Sensitive rights separate** — view cost, stock management and audit trail granted separately
- ✓ **Exports logged too** — Excel/PDF downloads written to audit trail
- ✓ **Session security** — password reset via email code; session refreshes on permission change
- ✓ **Zero-downtime rollout** — app stays open during updates
- ✓ **Your own domain** — publish as company.reperops.com or your company domain

Contact us for on-premise or custom domain (company.reperops.com / your domain) options.

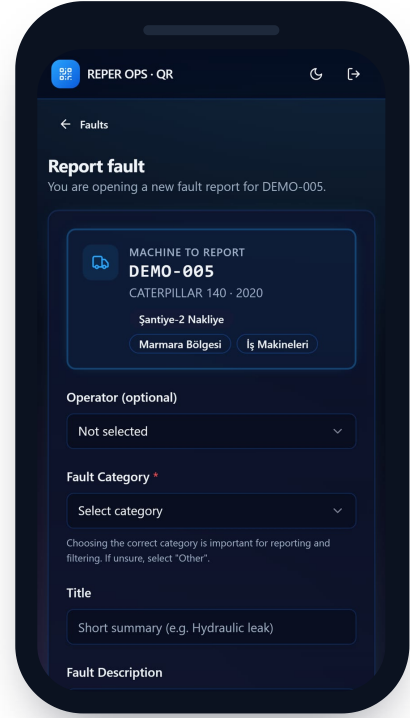
Who benefits IT · Company admin · Finance

Two lines from the field become a complete fault record.

Free-text report evaluated; category, priority and operability suggested. Rationale and confidence shown; questions for missing info. One-click apply to form; nothing saves without approval.



Fault list — category, priority and status together



Fault report from the field

- ✓ **Category and priority suggestion** — from past records and text content
- ✓ **Operability assessment** — if safety risk, machine marked inoperable
- ✓ **Follow-up questions** — up to three questions for missing info on site
- ✓ **Similar past faults** — same machine, similar text, with resolution notes
- ✓ **Human approval** — AI suggests, does not save; user chooses what to apply

1

Write on site

Operator enters free-text report from phone or via QR.

2

See suggestion

System presents category, priority and operability with rationale.

3

Apply in one click

Approved fields transfer to form; user can edit.

4

Open record

When gaps are filled, fault record opens.

Fewer incomplete records

Follow-up questions complete missing info before record opens.

Right priority

Category and priority consistent with history.

Organizational memory

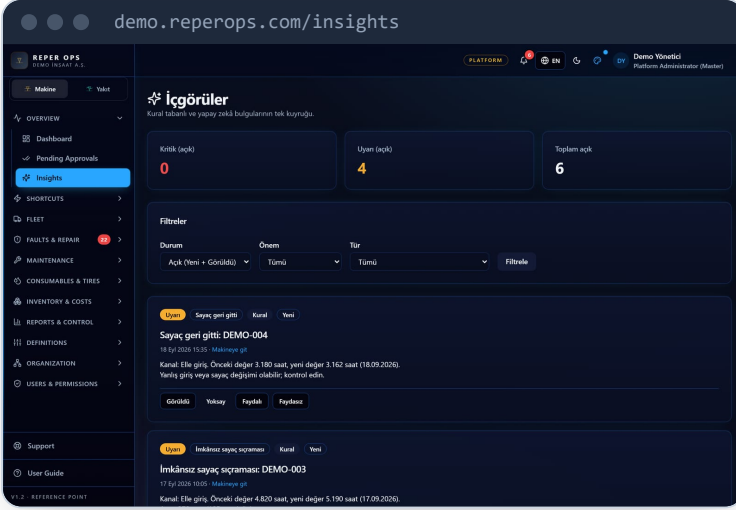
Similar past faults and resolution notes on new record.

Who benefits

Operator · Site superintendent · Maintenance manager

The system counts what no one else counts.

Fleet data is scanned nightly; counter inconsistencies and repeat faults gather in one queue. Weekly numbers are calculated by the system; AI only turns them into narrative.



- ✓ **Nightly scan** — counter rollback, impossible counter jump, duplicate and repeat fault
- ✓ **Single queue** — each finding marked seen or dismissed; dismissed do not return
- ✓ **Feedback** — useful / not useful logged to measure rule accuracy
- ✓ **Weekly executive summary** — system calculates numbers, AI writes narrative
- ✓ **Usage cap** — monthly limit defined; when exceeded, features stop; rest of app unaffected

Insights — single queue for rule and AI findings

1

Data accumulates

Counter, fault and maintenance records post to the machine.

2

Scanned nightly

Rules scan fleet data nightly and find inconsistencies.

3

Enters queue

Findings marked seen or dismissed on insights list.

4

Closed out

Reviewed finding closes; repeat fault points to root cause.

Rule-based

No guessing — counts and shows; counter rollback, impossible jump and repeat fault are counted.

Points to root cause

If the same fault opens a fourth time, it is not the fault — underlying cause is investigated.

Can be disabled

Module can be fully disabled; no data leaves when off.

Sample — weekly executive summary

In the 11.09 - 18.09 period all 22 machines ran actively with no fleet-wide capacity loss. Four faults opened and five were resolved during the period; open fault count remained at 23. Eight are critical and should be handled first. Hydraulic faults stood out this week; root cause review is recommended for repeat records in the same category.

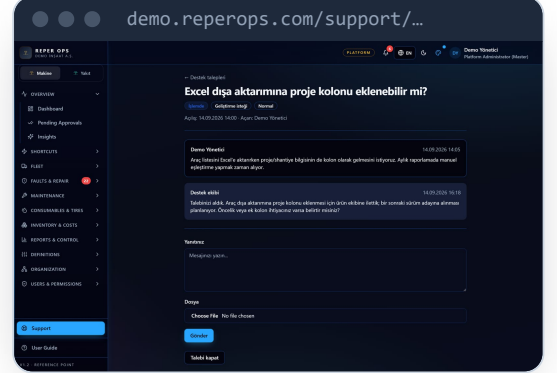
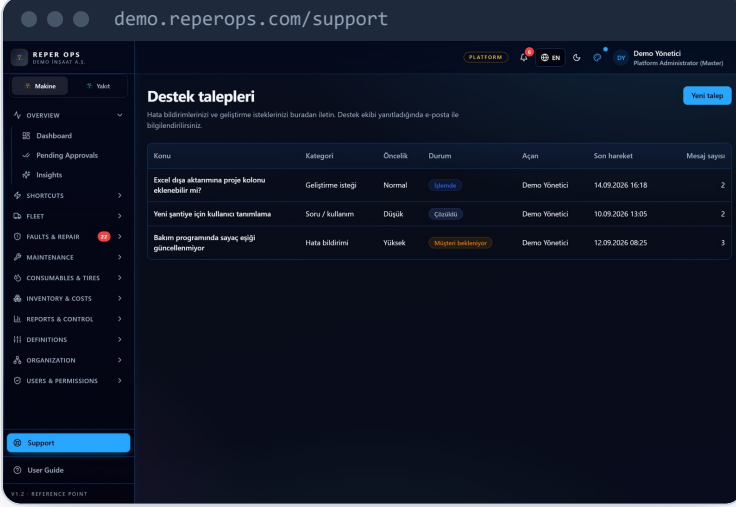
Numbers come from the system; AI only writes the narrative.

Who benefits

Maintenance manager · Fleet manager · Executive management

Send your issue from inside the app.

Bug reports, feature requests and usage questions open from within the app. Correspondence, attachments and status tracking in one place; you are notified by email when support replies.



Ticket correspondence

Support tickets — category, priority and status

- ✓ **Four categories** — bug report, feature request, question and subscription topics
- ✓ **Response target** — first response time tracked by priority
- ✓ **Context automatic** — screen and browser where ticket opened added to record
- ✓ **File attachment** — screenshot or document can be attached
- ✓ **Email notification** — notified when reply is posted

1

Open ticket

Bug, request or question reported from app with category.

2

Support replies

Support team tracks first response time by priority.

3

Thread continues

Attachments and status changes stay on one record.

4

Resolved and closed

Ticket closes when resolved; history stays in archive.

On record

Every ticket, message and attachment is stored with timestamp.

No need to ask which screen

Screen and browser where ticket opened are added automatically.

Trackable

Status and reply history tracked in app; notified by email.

Who benefits

All users · System administrator

Enable only what you need.

Reper Axis is modular: which modules are enabled in your license is set per company; modules can be added later.

Dashboard	Overview	Machines	Documents
Faults	Service history	Maintenance programs	Maintenance dashboard
Work Orders	Approvals	Kontrol Listeleri	Counter entry
QR Print	Warehouse / Spare parts	Cost	Fuel management
Tires	Oil tracking	Oil analysis	Operators
Contracts	Transfers	Performance (KPI)	Analytics and alerts
Risk score	Notifications	Raporlar	Vehicle tracking
Outside service jobs	Service providers	Brands	Machine groups
Machine statuses	Fuel types	Counter types	Fault categories
Companies / Projects / Regions / Locations	Users	Roles and permissions	Audit trail
Application settings			

Starter

Machine inventory, faults, work orders, preventive maintenance, counter entry, QR, reports.

Operations

Starter + checklists, warehouse, cost, fuel, tires, operators, notifications.

Enterprise

All + analytics/risk, oil analysis, audit trail, telematics integrations, multi-company.

- ✓ **Disabled modules hidden from menu** — unused sections do not clutter the UI
- ✓ **Add modules later** — when a new module opens, your existing data stays put
- ✓ **Role-based exception** — a licensed module can be limited to specific roles

Let us decide together which modules to start with: we run a short scoping exercise based on your machine count and current processes.

Languages: Turkish, English, Russian, Kyrgyz. Package contents are examples; module selection is based on need.

30-minute demo with your own fleet.

Explore the demo with sample data now, or schedule a live demo with your machine list. No setup: start the day your account opens.

Demo environment

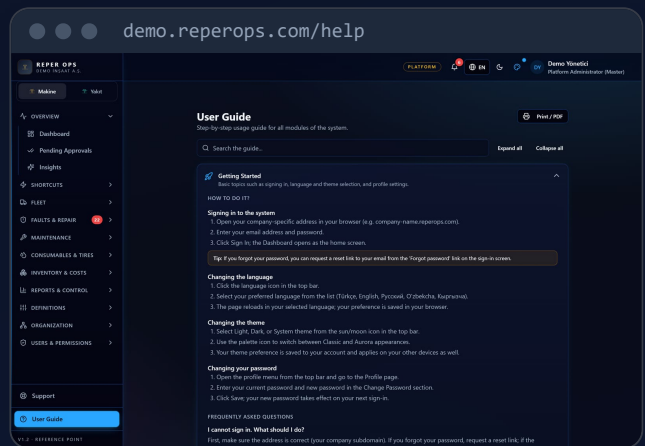
demo.reperops.com
Email satis@reperops.com for demo account credentials.

Contact

reperops.com/iletisim
satis@reperops.com



Demo / quote form



In-app guide: step-by-step per module; printable.

No setup

Runs in browser;
phone on site is
enough.

Company-specific database

Data stays
isolated, does not
mix.

Modular license

Enable modules
as needed, add
later.

Turkish support

We support setup,
data migration
and training.

Technical specs

Access	Browser, no setup; PWA and offline queue.
Scope	Axis modules: faults, work orders, maintenance, warehouse, fuel, tires, cost, KPIs, risk.
Data	Isolated DB per company, daily backup, Frankfurt data center.
Access control	Role, project and module authorization; 180-day audit trail.
Integration	Telematics and fuel pump API; Excel/PDF export.