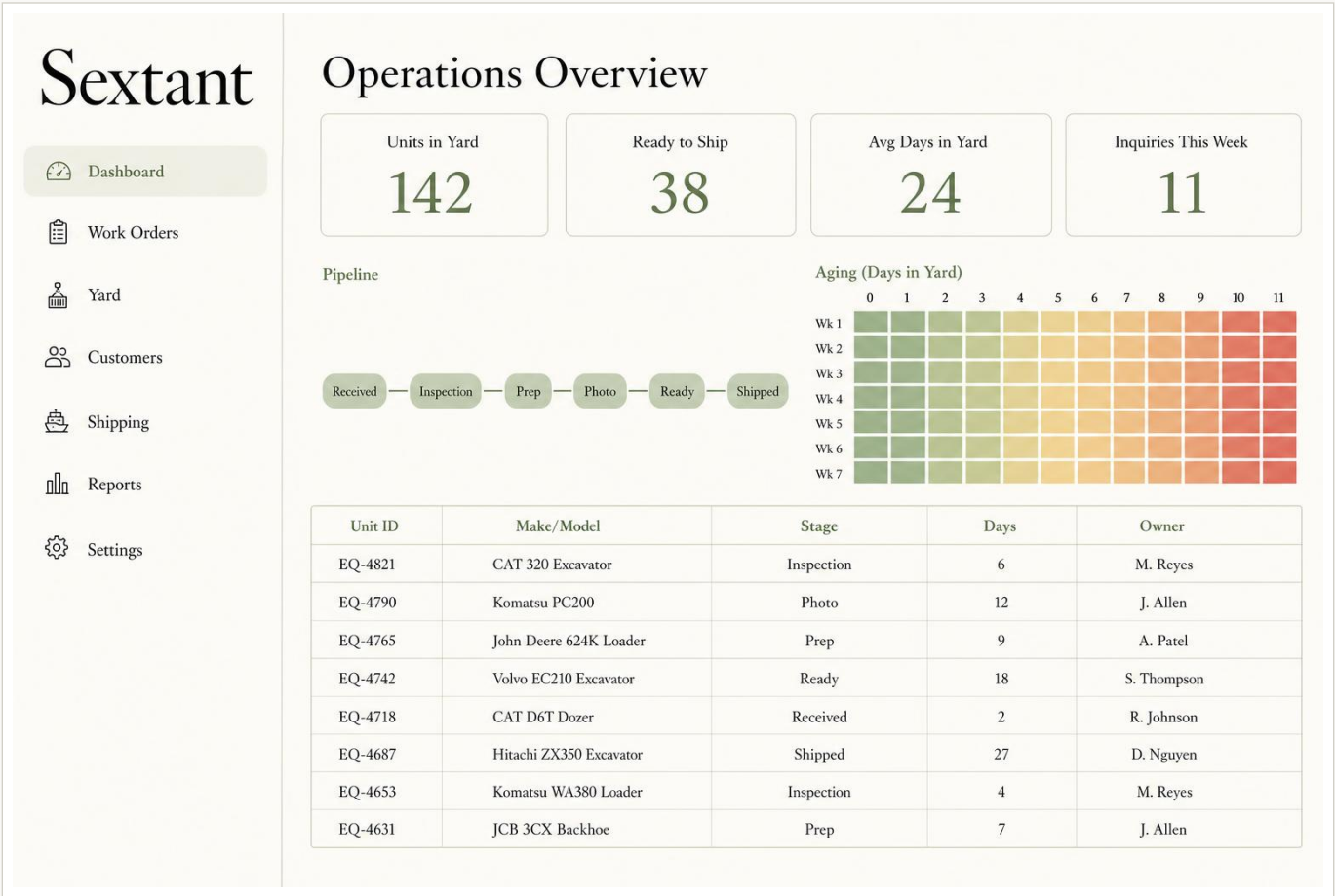


One spine for every machine moving from yard to vessel.

Heavy Equipment Export Operations Platform

INDUSTRY	ROLE	YEAR	CODENAME
Heavy Equipment Export Operations Platform	Product lead & full-stack engineer	2024	Sextant



SUMMARY

A work-order and customer-portal platform for a heavy equipment exporter, replacing a tangle of spreadsheets, shared inboxes, and phones-buzzing-for-status with a single operational system from arrival to shipment.

What the team was up against

- 01 Inbound machines were tracked across spreadsheets, paper files, and shared email folders - every team carried its own copy of the truth and the copies disagreed.
- 02 Operations leadership had no live view of which units were aging in the yard; priorities were set by whoever shouted loudest that morning.
- 03 Customers called constantly for status updates, and photo evidence of each unit's condition was scattered across personal phones with no link back to the work order.

How the platform answers it

- 01 A single work-order record per machine, owned end-to-end, with role-scoped dashboards for admins, yard staff, and the customer portal - one source of truth, three audiences.
- 02 An aging heatmap and stage-gated pipeline (Received ? Inspection ? Prep ? Photo ? Ready ? Shipped) that surface the units genuinely at risk and route field captures straight onto the right record.
- 03 A self-service customer portal with live status, photo gallery, and shareable order links - collapsing inbound status calls and giving the export team back its mornings.

-70%

Customer status inquiry calls

100%

Photo and document traceability per unit

Real-time

Operational visibility for every stakeholder

1

System of record, down from spreadsheets and shared inboxes

Frontend

React
TypeScript
TanStack Query
Tailwind

Backend

Postgres
Row-level security
Edge functions
Object storage

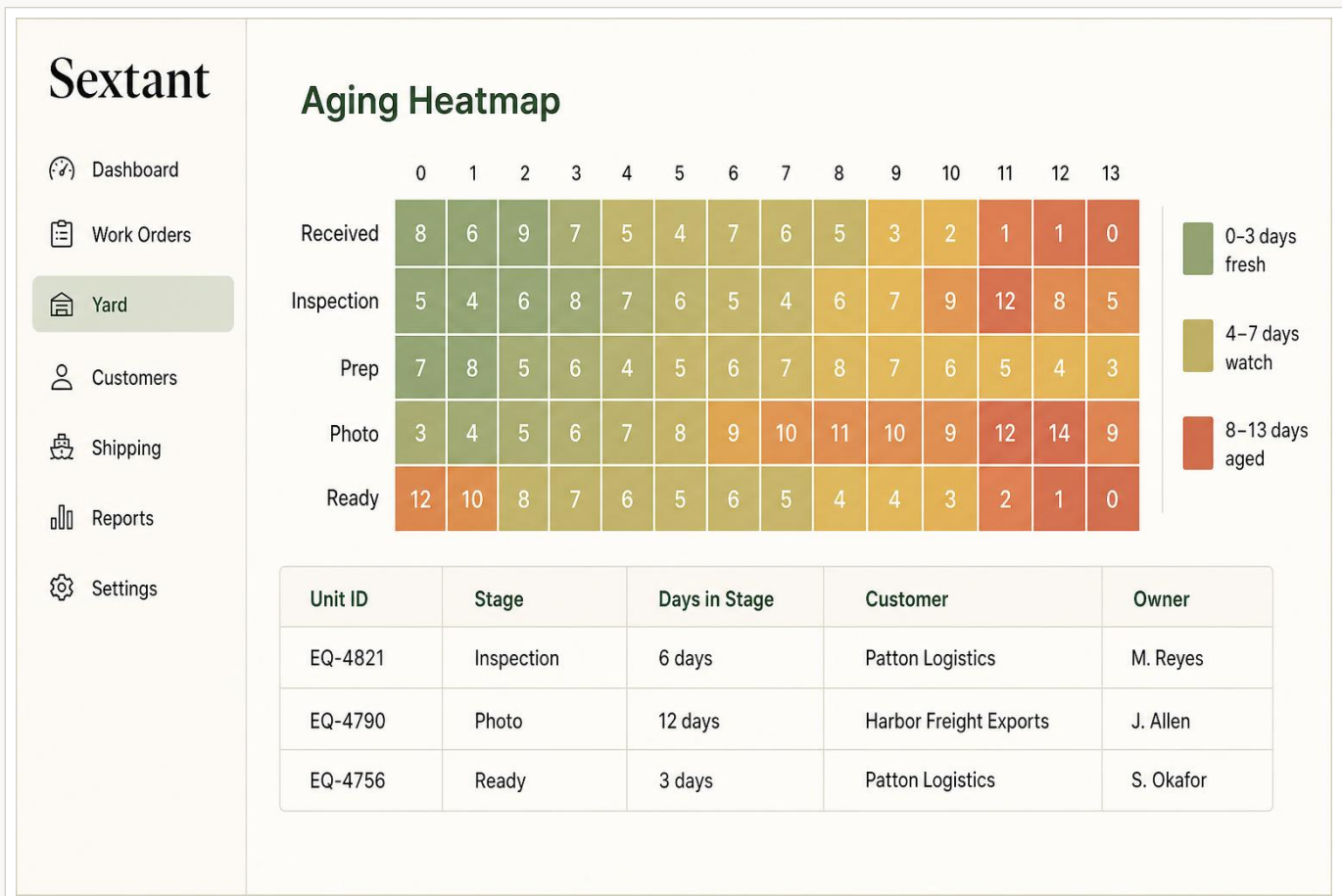
Mobile

Mobile-first capture
Camera upload
Offline-tolerant checklists

Portal

Public order tracker
Shareable links
Role-scoped dashboards

Operations dashboard with aging heatmap



Customer-facing order tracker with milestone timeline

Sextant

Order EX-2041

Patton Logistics • 3 units • Destined for Mombasa



Unit Photos



EQ-4821 • CAT 320



EQ-4790 • Komatsu PC200



EQ-4756 • CAT D6

Estimated Departure



Mar 22, 2024

Port of Houston

Field staff capture - inspection checklist and photos

