



ADOPTING TECHNOLOGY FOR INDUSTRIAL RAIL SAFETY PROGRAMS

AGENDA



Capture | View | Leverage

- Problems with Paper based Safety Data Collection
- The Proposed Solution
- How the Solution Works
- Sample Workflow
- The Powerful Value of a **Single Source of Data**
- Reporting / Auditing
- Summary

What are the problems with conventional safety documentation ??

PAPERWORK



SPREADSHEETS



FAX MACHINES



What is a viable, easy for the field to use, solution??



+





Capture | View | Leverage

- Rail Car Movers Monthly Annual Inspections
- Locomotives / LUL 45/ 90/ Annual Inspections
- Rail Wheels 6 Month Inspections
- Switches Monthly Inspections
- Frogs Monthly Inspections
- Turnouts Monthly Inspections
- Rail Inspections Monthly Inspections

The Nektar / Petro-Traxx Solution



Capture | View | Leverage





Capture | View | Leverage



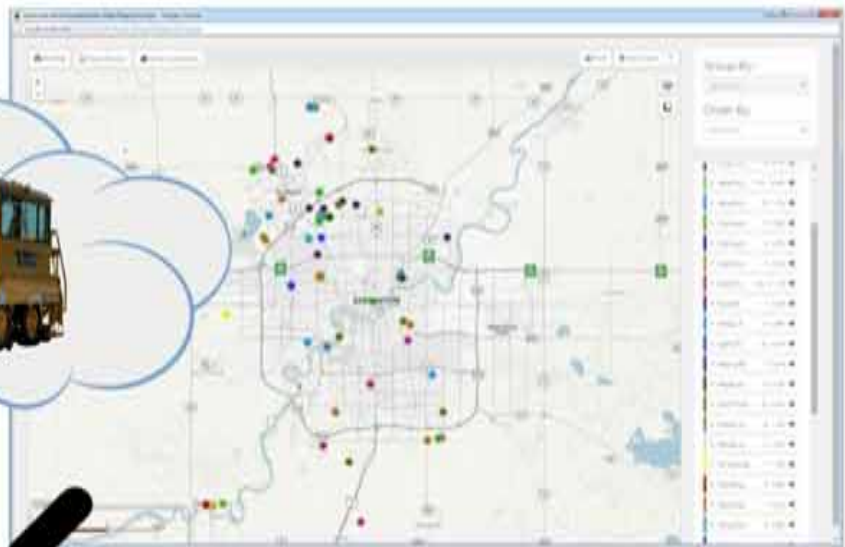
The Solution



Capture | View | Leverage

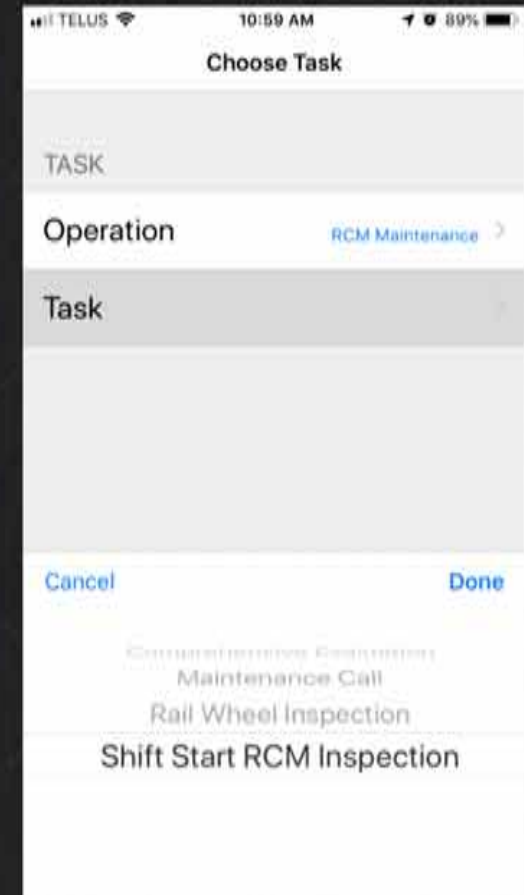
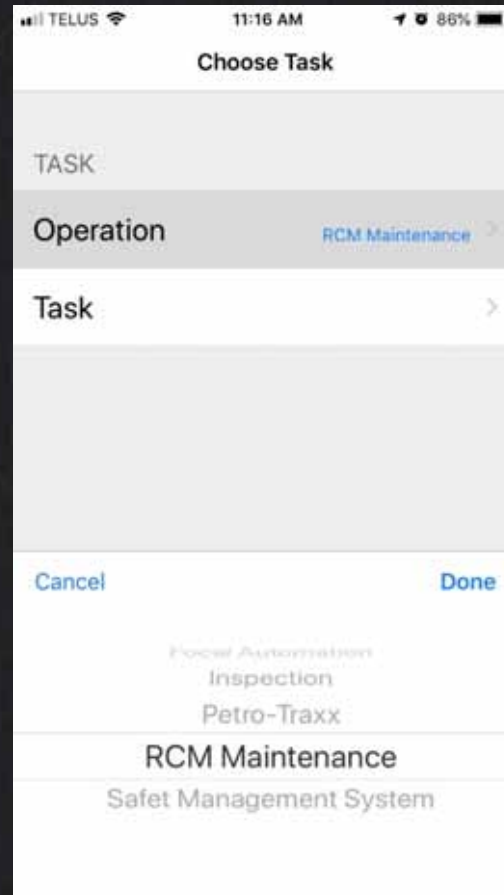
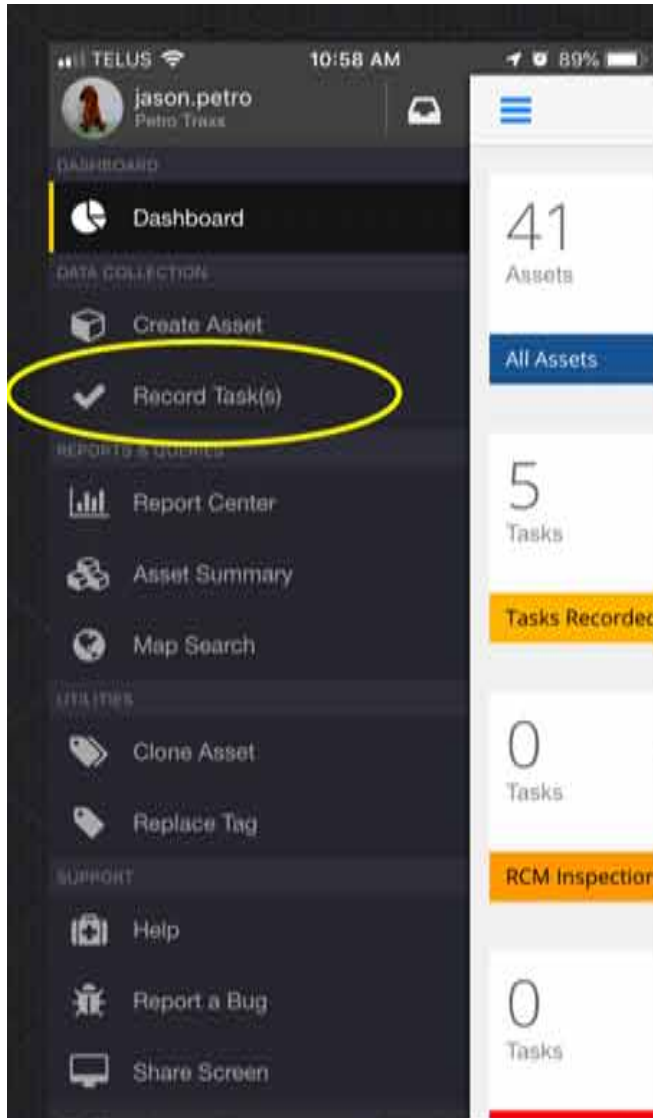
Equipdata
www.equipdata.com
Equipment Management Powered by
Nektar DATA SYSTEMS

40004013351





Capture | View | Leverage





Capture | View | Leverage

TELUS LTE 9:44 AM 26%

Record Task Clear All

Operation RCM Maintenance

Task Shift Start RCM Inspection

REGULATORY COMPLIANCE

- Brake Test
Including the operation of the safety control system.
- Handbrake Working
- Headlights
- Oscillating Lamps
- Running Gear
- Any Apparent Hazards
Check for "No other Hazards Noted."
Note below if anything could cause an accident, injury, or casualty.
- Input any Hazards Identifi...
- Machine Condition
Select Operational, Operating with Defects, or Locked Out Machine Down.

CHECKS PRIOR TO START UP

TELUS 11:00 AM 89%

Record Task Clear All

Comments Any additional comments?

SIGNATURE & WAIVER

Next Service Listed
If hour meter is within 20 hours of next service listed please check this box. The service provider will receive notification.

Status of machine?
Select from list - Mandatory.

Inspecting Signature
"By signing, I acknowledge that I have inspected the above equipment. Unless any item is not checked or noted as deficient, the equipment is in good and safe working condition."

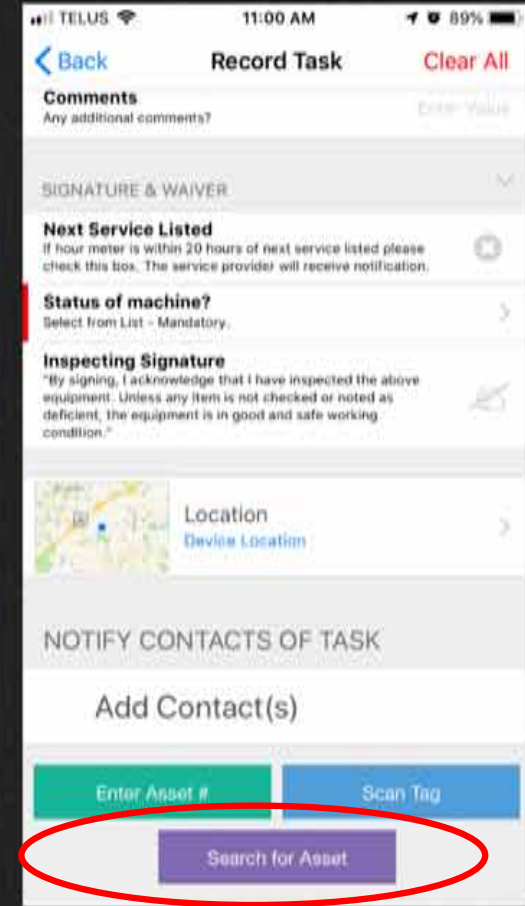
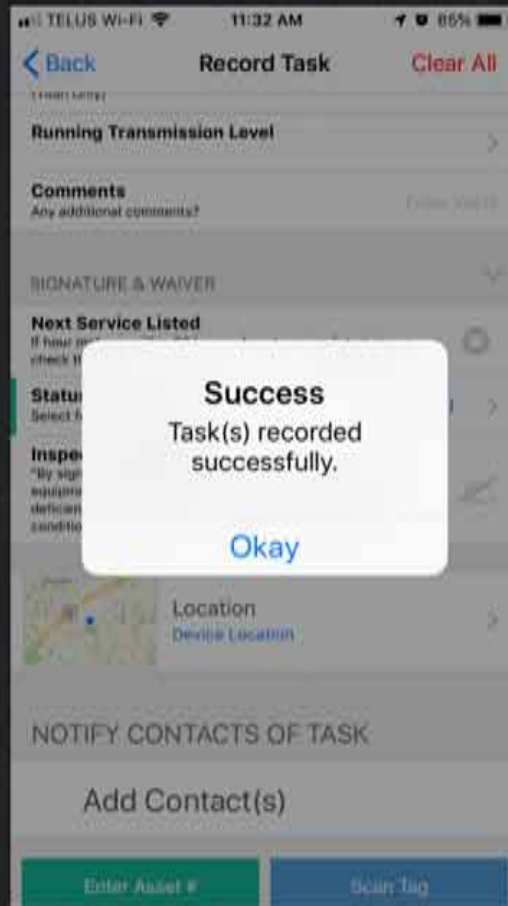
Location Device Location

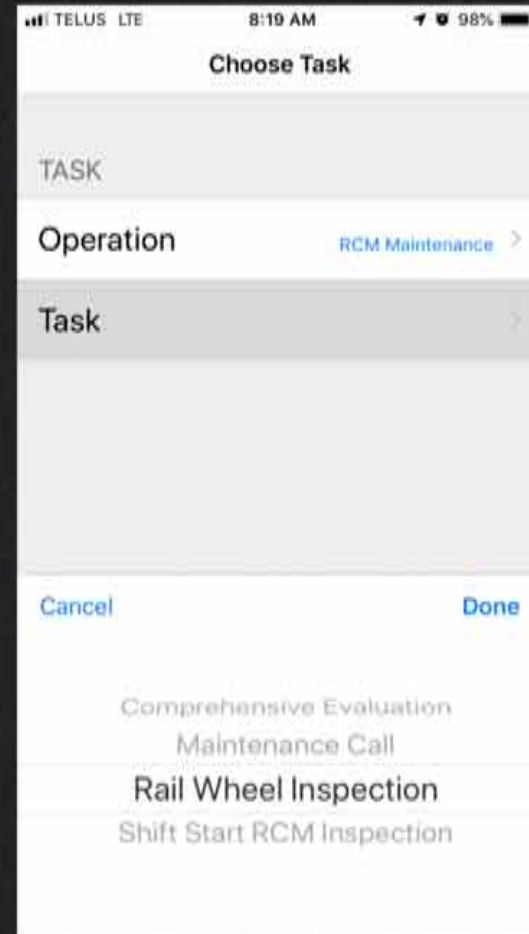
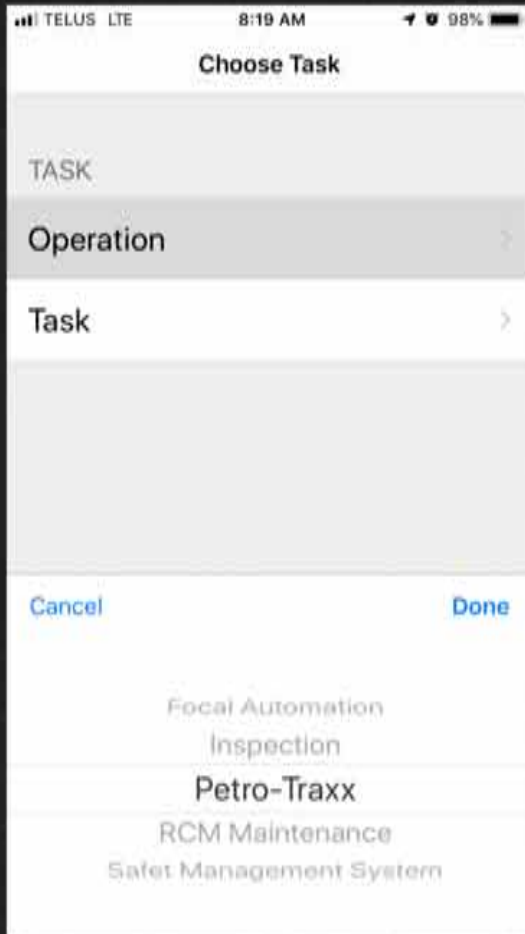
NOTIFY CONTACTS OF TASK

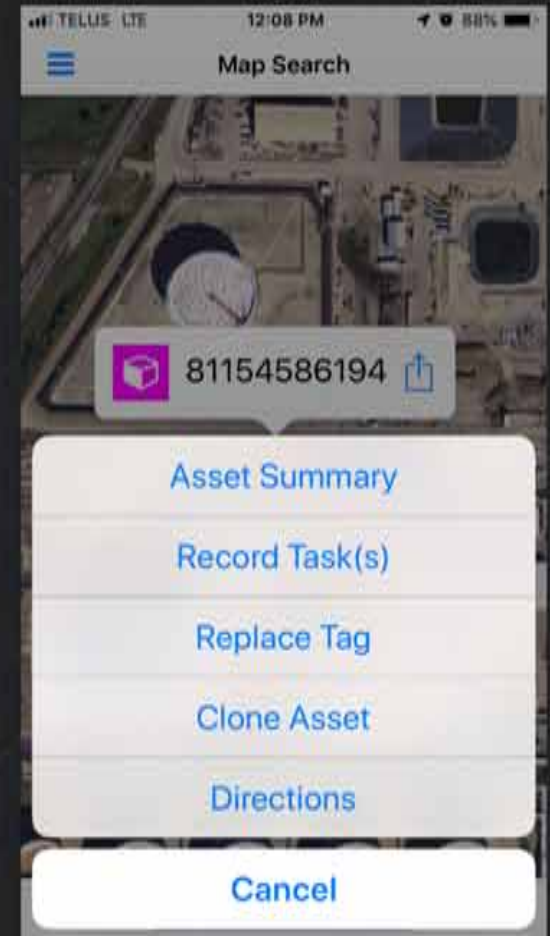
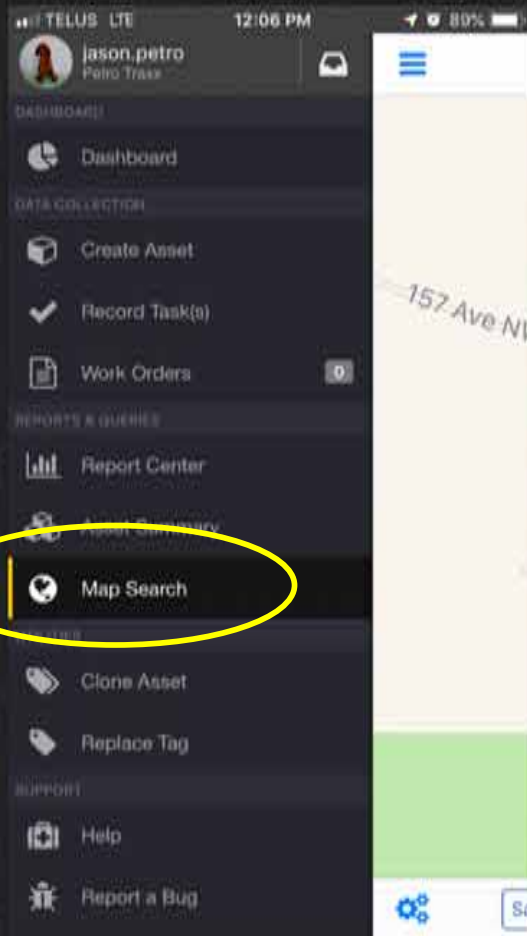
Add Contact(s)

Enter Asset # Scan Tag

Search for Asset







- Dashboard
- Asset Registry
- Task Grid
- Report Center
- Utilities >
- Manage >
- Support >
- Report a Bug
- Logout

0 Tasks
FLHA

2 Tasks
Service Trucks Pre-tripped Today

46 Assets
All Assets

0 Tasks
First Aid Kits

0 Tasks
Petro-Traxx Equipment Failure

11 Tasks
Tasks Recorded This Week

0 Tasks
Fire Extinguishers Fail

0 Tasks
Petro-Traxx

0 Tasks
RCM Inspections Failed

0 Tasks
RCM Inspections with Defects

Petro-Traxx - Failure or Defect Noted



Capture | View | Leverage

Record of Work
10/16/2018 5:24:17 PM
Operation Name: Service Department
Task Name: Record of Work
Recorded By: knorell wilco
Last Modified: 10/16/2018 5:24:12 PM
Location: 53.615922, -113.573751
Historical Weather: [View Weather](#)

Comprehensive Evaluation
10/1/2018 11:46:41 AM
Operation Name: RCM Maintenance
Task Name: Comprehensive Evaluation
Recorded By: kris.petro
Last Modified: 10/3/2018 2:53:2 PM
Location: 53.530415, -113.4117
Historical Weather: [View Weather](#)

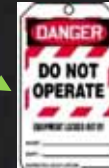
Minor repairs can be filed in a standing work order

ASSIGN WORK ORDER

Filter users by task permissions

Equipment Failure Analysis

Assign Work Order To [+ Add Another User](#)



1 Tasks

RCM Inspections Failed

David can also assign a repair task within the work order and dispatch directly to a technician.

David can create a work order right from his dashboard that attaches the failed inspection task.

ADD LINE ITEM

Line Item Title:

Line Item Tasks:

Allow Task(s) On Other Assets:

Comprehensive Evaluation
10/1/2018 11:46:41 AM
Operation Name: RCM Maintenance
Task Name: Comprehensive Evaluation
Recorded By: kris.petro
Last Modified: 10/3/2018 2:53:2 PM
Location: 53.530415, -113.4117
Historical Weather: [View Weather](#)

Task Elements

- Email Task Info
- Print Task Info**
- Copy Task
- Create Work Order**
- Add To Work Order As Reference
- Record New Task With Reference

Technician Name:

Layout Wizard [Save] [Refresh] [Check] [Empty] [List] [Add] [Remove] [Flag] [Share] [Settings] Search Work Orders [Search] [Filter] [Help]

Drag a column header here to group by that column

	Asset Num...	Asset Identifier	Number	Name	Status	Assigned To	Created By
<input type="checkbox"/>	18005218945	EDM Operations Overhe...	W2018-006165	Daily Yard Clean UP	Waiting		Auto
<input type="checkbox"/>	11220002197	2197-13 • Ken Kuntz	W2018-006158	Wheel Retorque	Waiting For Review		Auto
<input type="checkbox"/>	18005218945	EDM Operations Overhe...	W2018-006151	Daily Yard Clean UP	Waiting For Review		Auto
<input type="checkbox"/>	18005218177	Secord School Park Site...	W2018-005980	Mobile Lidar Scan Requi...	Waiting (Overdue)		joe.wilco
<input type="checkbox"/>	18005218134	Century Mile Race Trac...	W2018-005979	Mobile Lidar Scan Requi...	Waiting (Overdue)		joe.wilco
<input type="checkbox"/>	18005218155	Stillwater HOA Site • Sti...	W2018-005465	Survey Needed	Waiting (Overdue)		jirving.wilco
<input type="checkbox"/>	80071004714	Chuck Dietrich • RBC	W2016-001941	USA Visa Receipt Recor...	In Progress (Overdue)		chuck.wilco
<input type="checkbox"/>	80071000095	Chuck Dietrich • RBC	W2016-000702	Visa Reconciliation	In Progress (Overdue)		asadmin.wilco
<input type="checkbox"/>	11220002176	2176-11 • Karl Nikiforuk	W2018-006166	2179	Waiting		kent.wilco
<input type="checkbox"/>	11220006931	6931-14	W2018-006161	6931	In Progress		kent.wilco
<input type="checkbox"/>	40004025597	7233-18	W2018-006159	7233	Waiting		kent.wilco
<input type="checkbox"/>	40004025972	4466-07	W2018-006155	4466	Waiting		kent.wilco
<input type="checkbox"/>	40004025581	7241-18	W2018-006152	7241	Waiting		kent.wilco
<input type="checkbox"/>	18005217255	Ebbers Shared Park	W2018-005459	Survey Needed	Waiting		Auto
<input type="checkbox"/>	18005217231	Joyal Park	W2018-005443	Survey Needed	Waiting		Auto
<input type="checkbox"/>	18005217205	Walker School Site	W2018-005388	Survey Needed	Waiting		Auto

Count=121

Page 1 of 2 (121 items) [1] [2]

Typical Railway Client



Capture | View | Leverage



Dashboard

Asset Registry

Task Grid

Report Center

Utilities

Manage

Support

Report a Bug

Logout



jason.ptx

EN



Type to filter



All Classes

All Categories

ACME
01 Railyard
Derails

ACME
01 Railyard
Rail Car Movers

ACME
01 Railyard
Rail Wheels

ACME
01 Railyard
Stick Rail

ACME
01 Railyard
Switches/ Frogs

ACME
01 Railyard
Turnouts

ACME
02 Instrumentation
Valves

ACME
03 Safety
Safety Managem...

From Date:
 To Date:
 Client Name:

PETRO-TRAXX

4812 93 Ave Edmonton AB T6B 2P8 Phone: 780.395.5995
 24 Hour Contact Phone Number: 780.914.1027

Comprehensive Evaluation

Client Information	
Client Name	2008 RK330 Rail King - Unit 1
Client Location	
Client Contact	Edward

Equipment Information	
Make & Model	Rail King RK330
Serial Number	RCM769
Current Hour Meter	1908
Next Service Due	1927

Ticket	
Date	9/10/2018
Name	Kris Holowaychuk
Service Type	
Vehicle	35-1 Service Truck
Work Order	

Hours		
On-Site	Total Hours	02:44:00
Travel		02:50:00

Preventative Maintenance Checks

Visual Inspection	
Cab/Doors	OK
Engine Hood	OK
Handrails / Steps	OK
Paint / Glass	OK
Insulation / Mats	OK
Seat / Seatbelts	OK
Oil Pressure	OK

Function Test	
Heater	OK
Head / Tail Lights	OK
Strobe Light	OK
Horn	OK
Air Conditioning	OK
Knuckle Release	OK
Coupler Control	OK

PETRO-TRAXX^{INC}

4812 93 Ave Edmonton AB T6B 2P8 Phone: 780.395.5995
 24 Hour Contact Phone Number: 780.914.1027

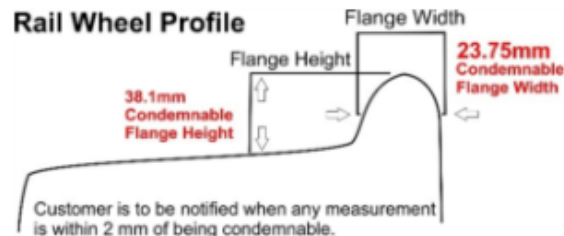
Comprehensive Evaluation

Rail Wheel Measurements (mm)

Flange Height	OK
> Front Left	14
> Front Right	14
> Rear Left	15
> Rear Right	14
Rail Wheel Tread	OK
> Front Left	0.3
> Front Right	0.2
> Rear Left	0.2
> Rear Right	0.3

Flange Width	OK
> Front Left	37
> Front Right	34
> Rear Left	37.5
> Rear Right	37

Rail Wheel Profile



Materials and Supplies

Parts List	Quantity	Unit	Price

Next Service Due



Asset #	Make	Model	RDM ID#	Hours Kms.	Next Service	Remaining Hours
50224517795	SANY	SY215	EX1828	6000	0	-6,000
10000119685	JOHN DEERE	310 SJ	BH 4155	4989	0000	-4,989
40004024416	SANY	SY365	EX 0298	1418	987	-431
40004057459	HYUNDAI	HL780-9	LD 0139	5969	5750	-219
10000119692	JOHN DEERE	650J	DZ 8852	7508	7308	-200
10000119690	PEGSON	XR400	CR 0033	7238	7083	-155
40004024412	SANY	SY365	EX 0568	1335	1250	-85
10000213626	Sany	SY35U	EX8288	40	50	10
10000119644	HITACHI	ZX225	EX 4856	7773	7785	12
40004023617	SANY	SY235	EX 2628	985	1000	15
10000119722	SANY	SY335 3 PIECE	EX 5608	1443	1460	17
10000119660	VOLVO	A300	RT 2570	10927	10947	20

Job Description

Was already on site performing monthly evaluation on Trackmobile and n

Recommendations

Unit needs a whole complete wash

Both rear light boxes need welding

Coolers need to be blown or steamed out because they are starting to get plugged up

1" ball valve for rear train air brake pipe

Rear light boxes cracking

3/8" Air drain valve (main air)

4 16" wiper blades

Floor mat insulation is torn

Battery box needs 4 3/8 bolts

Front axle rubber elements

Wear pads on front coupler need replacing

Reverse back up alarm is not working

Front coupler beam is full of grease... operators should be using dry graphite.


x _____

Kris Holowaychuk

Front coupler beam is full of grease... operators should be using dry graphite.



Kris Holowaychuk



