

# Shop Repair Order

Date *	Mechanic *	Type of Equipment
December 30, 2021		Tractor

Unit # *	Odometer (km's)	Hours
T88	557605	15836

Type of Service

What "upcoming" needs resolved in Samsara? \*

- Oil Change       DPF       Nothing

Is there a maintenance Request? \*

No

## Parts

List all parts used for the job

1- engine overhaul kit 4- Connecting rods 1- oil pump 1- oil cooler 1- camshaft idler gear 1- upper idler gear 1- scissor gear 1- fuel pump idler gear 2- rear intake rocker arms 1- camshaft 1- rebuilt cylinder head 1- turbo exhaust pipe 2- air filters 2- engine oil filters 100L- engine oil 1- oil pan heater element 1- oil pan heater plug 1- can of apex red Cummins paint 1- front crankshaft seal

## Description: \*

describe all work completed.

- driver complaint of lower than normal oil pressure, ran unit to temperature verified that engine oil pressure lower than Cummins minimum specifications - drained oil filter, cut open oil filter found a lot of metal in filter - drained engine oil, removed oil pan, oil pick up tube, stiffener plate, and oil pump. Lots of metal filings in the bottom of oil pan, and stuck to oil pick up tube screen - disassembled oil pump found signs of damage - disassembled main crankshaft bearings one at a time to inspect for signs of failure then reassembled before moving to next one, a couple of the bearings showed signs of damage but not the source of contamination. - repeated process with each of the connecting rod bearings. Again found signs of damage but not source of contamination - drained coolant, drained ac. removed rad - removed valve cover visually inspected camshaft lobes for damage #5 intake valve lobe damaged - pinned crankshaft and wedged camshaft, unloaded scissor gear, removed camshaft idler gear and camshaft gear. Removed camshaft, inspected found no other signs of damage - removed remaining gears found scissor gear bearing spun, remaining gear bearings show damage. Main source of contamination is the scissor gear bearing. - pulled cylinder head, cleaned deck measured protrusions, counter bores need to be cut. Pulled pistons and liners got cleaned for cutting - rolled out crankshaft and connecting rod bearings bearings and polish journals - rigged up vacuum to suck from were clean engine enters the block and sucked brake clean backwards through all the oil ports. - once counter bores were cut installed new liners, pistons, four new connecting rods, cooling jets - install rebuilt cylinder head, new camshaft, with two new intake rocker arms for number four and five - installed new gears, did base engine timing, valve set, installed injectors - installed rad filled with coolant charged ac - charged oil system - started engine dumped oil filter installed new one - washed and painted engine - take unit for test drive - complete oil service without changing service decal so it can have a break in oil change in roughly 100 hours - perform injector tests to ensure all are good - cvip inspection - cvip checklist - replaced exhaust flex pipe behind transmission - replaced fire extinguisher - welded right rear s-cam support

# Shop Repair Order

Date \* 21/01/2026  
Mechanic \*  
Type of Equipment Tractor

Unit # \* t88  
Odometer (km's) \* 984657  
Hours \* 30839

Type of Service  
Service/Oil Change - TRUCK

What "upcoming" needs resolved in Samsara? \*  
 Oil Change  DPF  Nothing

Is there a maintenance Request? \*  
No

Parts  
list all parts used for the job

Description: \*  
describe all work completed.  
Jan 21  
Perform oil change  
Grease unit  
Replace cab air filter  
Replace wiper blades  
Repair coolant leak  
Refill coolant  
Tighten P/S hood pin  
Replace fan belt  
Top up both steer hubs  
Replace purge valve  
Replace rear p/s air tank  
Remove coolant heater  
Jan 22  
Remove coolant heater wiring and fuel pump  
Remove bunk heater  
Remove inverter  
Repair reverse light  
Remove decals and clean off

Maintenance KEY WORD \*  
(clutch, transmission, wiring, etc.)  
service

# Shop Repair Order

Date *	Mechanic *	Type of Equipment
27/12/2025		Tractor

Unit # *	Odometer (km's) *	Hours *
T-88	979134	30599

Type of Service

General repair

What "upcoming" needs resolved in Samsara? \*

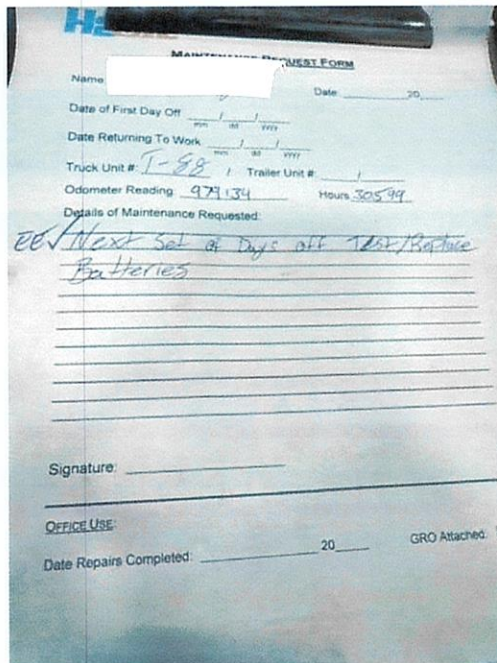
- Oil Change       DPF       Nothing

Is there a maintenance Request? \*

Yes

## Maintenance Request

add a picture of the maintenance request here



[Click the Image to view the image in full resolution](#)

## Parts

list all parts used for the job

Batteries x4

## Description: \*

describe all work completed.

Test all 4 batteries. 3 out of 4 failed, replace all 4 batteries.  
Tighten cable going to inverter 100 amp fuse. nut was loose on both studs.  
Fire unit up and check voltage, in good range

# Shop Repair Order

Date *	Mechanic *	Type of Equipment
16/12/2025		Tractor
Unit # *	Odometer (km's) *	Hours *
T-88	957184	29499

Type of Service

What "upcoming" needs resolved in Samsara? \*

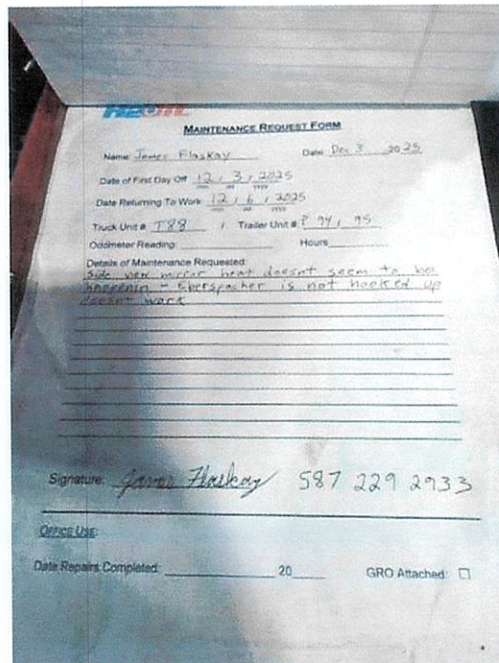
- Oil Change       DPF       Nothing

Is there a maintenance Request? \*

Yes

### Maintenance Request

add a picture of the maintenance request here



[Click the Image to view the image in full resolution](#)

## Parts

list all parts used for the job

2x cab mounts  
2x stack bushings  
2x v rod bushings sets  
1x output seal kit  
2x king pin sets  
1x differential locker kit  
1x turbo  
1x coolant wing nipple  
1x power steering resevoir  
DPF parts  
1x Air dryer cartridge  
1x purge valve  
1x convex mirror  
9x structural rivets  
1x interior cab light  
2x drive axle shocks  
1x pto sensor wire  
1x pto sensor  
12x s-cam bushings  
12x s-cam seals  
2x abs sensors  
1x air connection  
1x leveling valve  
1x tie rod assembly  
1x hydraulic return line  
1x block heater  
1x mud flap  
1x drive wheel seal  
1x compressor hose  
2x steer hubs

**Description:**

describe all work completed.

Replaced cab mounts  
Replaced both passenger and drivers side stack bushings  
Replaced 1st axle v rod bushings  
Replaced 2nd axle v rod bushings  
Re sealed 2nd differential  
Replaced 1st differential output seal  
Re sealed front gear cover plug on engine  
Replaced both driver and passenger side king pins  
Replaced leaking differential locker seals  
Serviced DPF  
Replaced turbo  
Replaced leaking coolant wing nipple on tombstone  
Replaced cracked power steering reservoir  
Installed drive tires

Added hydraulic oil  
Replaced passenger side DOT tape  
Replaced chain up valve bushing

Cleaned air filter canisters and changed air filters  
Changed hydraulic and diff filters  
Washed and buffed wheels, installed wheels on unit  
Set brakes on tractor  
Installed and aligned hood with Wyatt  
Set toe adjustment (1/8" toe in)  
Reset the DPF filter via Insite  
Aligned headlights

Replaced block heater  
Replaced cab rivets  
Replaced d/s convex mirror  
Replaced abs sensors on 1st axle d/s, 2nd axle p/s  
Replaced d/s interior cab light  
Replaced 2nd axle shocks  
Replaced pto sensor and wire  
Replaced intake hose on bunk heater  
Replaced drive brake drums and shoes  
Replaced mud flap p/s  
Wrapped airlines  
Replaced hydraulic return line  
Replaced drive wheel seal d/S  
Replaced compressor hose  
Replaced both steer hubs  
Secured wiper hoses  
Tightened loose coolant coupler  
Replaced air connection to 5th wheel slide  
Secured abs lines  
Replaced block heater  
Replaced coolant line  
Replaced leveling valve  
Replaced tie rod assembly

**Maintenance KEY WORD \***

(clutch, transmission, wiring, etc.)

# Shop Repair Order

Date \* 04/11/2025  
Mechanic \*  
Type of Equipment Tractor

Unit # \* T88  
Odometer (km's) \* 965479  
Hours \* 30036

Type of Service  
General repair

What "upcoming" needs resolved in Samsara? \*

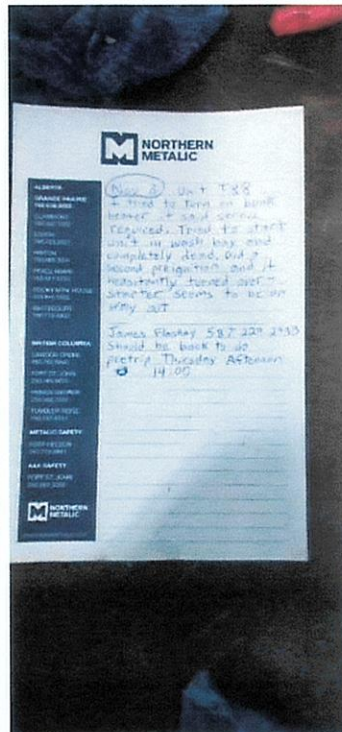
Oil Change  DPF  Nothing

Is there a maintenance Request? \*

Yes

## Maintenance Request

add a picture of the maintenance request here



[Click the image to view the image in full resolution](#)

## Parts

list all parts used for the job

1x starter