Unit No. 1037 Date 10-03-18 **INBOUND - 92 DAY INSPECTION - MECHANICAL** a) Check heater motors in cab ED ED b) Check all wiper motors c) Check horn and bell ED d) Check sanders (forward & reverse) ED e) Check air compressor and governor (kick in @ 130psi and kick out @ 140psi) 120-130 ED **INBOUND AIR BRAKE TEST** a) Independent leakage test ED b) Automatic leakage test ED ED c) Automatic application ball-off test d) Emergency application and PCS trip test *ED e) Maintaining feature test **MAIN RESERVOIR SAFETY VALVE TEST** a) Drop control & fuel valve switch (watch MR valve – should blow at 150psi) ED b) Lift control and fuel pump breakers, record reading 145 **ENGINE LOADING TEST** a) Make sure it moves in each direction ED **COOLING FAN TEST** a) Operate each temperature switch and make sure all shutter cylinders open & according SN/KC fans engage with proper rotation **IDLE ENGINE WALK AROUND TEST** a) Top deck running inspection ED/SN/KC b) Check for fuel, oil, water, and air leaks ED/SN/KC c) Check throttle speeds d) Check all water, oil, and sand levels SN/KC ED e) Test engine protector and low oil button f) Obtain lube oil sample KC g) Idle oil pressure 36 #'S h) Idle engine temperature 146°F i) Obtain A/C Oil Sample KC

ENGINE ROOM WALK AROUND INSPECTION (IN 7TH OR 8TH NOTCH)

Check exhaust, fuel, water, and oil for leaks

RECORD ALL DEFECTS ON INBOUND DEFECT SHEETS

INBOUND DEFECT SHEET

Engine running inspection

- -Unit continues to load when PCS is tripped
- -Engine low on Oil 20 gallons

	Nose pack	Wheel thick	Flange height	Flange thick	Tread wear
Left #1	1/4	20	1 5/16	1 17/64	1/8
Right #1	1/4	20	1 5/16	1 17/64	1/8
Left #2	1/	22	1 1/4	1 17/64	1/8
Right #2	1/4	21	1 5/16	1 17/64	1/8
Left #3	1/	28	1 3/16	1 17/64	1/8
Right #3	1/4	29	1 5/16	1 17/64	1/8
Left #4	1/	29	1 3/16	1 17/64	1/8
Right #4	1/4	28	1 1/4	1 17/64	1/8
Left #5					
Right #5					
Left #6					
Right #6					

Flange height flange thick

0on0	1	0on0	1 17/64
0on1	1 1/16	1on0	1 15/64
0on2	1 1/8	2on0	1 7/32
0on3	1 3/16	3on0	1 5/32
0on4	1 1/4	4on0	1 7/64
0on5	1 5/16	5on0	1 3/64
0on6	1 3/8	6on0	1 1/32
4on6	1 7/16	7on0	63/64
5on6	1 31/64	8on0	15/16

#1 Side bearing clearances	1/8
#2 Side bearing clearances Front draft gear total slack	1/4 1/831
Rear draft gear total slack	1/8
Front pilot plate height	7 1/2
Rear pilot plate height	4 1/2
Front coupler height	31 1/2
Rear coupler height	31 1/2

92 DAY LOCOMOTIVE F.R.A. INSPECTION

DEFECTSSIGN OFF ON REPAIRS

-Front Pilot Plate needs lowered

92 DAY LOCOMOTIVE F.R.A. INSPECTION

DEFECTS SIGN OFF ON REPAIRS

ENGINE TOP DECK INSPECTION (DEAD)

a) Check engine rack reading (dead)	1.96
b) Engine under hydro of cooling system	ED
c) Check for dropped valves	SN/KC
d) Rotate engine manually and check rocker – roller & cam shaft lobes	SN/KC
e) Purge fuel system, check for leaks with black light & record	ED/SN/KC

AIR BOX INSPECTION

With hydro of cooling

a) Obtain lead readings and record on air box sheet	ED/KC
B) Check top ring land readings & record on air box sheet	ED/KC
c) Check ring tension wear & record on air box sheet	ED/KC
d) Piston condition & record on air box sheet	ED/KC
e) Liner condition & record on air box sheet	ED/KC

CRANK CASE INSPECTION – 92 DAY

Obtained with hydro of cooling system

a) Record crankshaft lateral	1/32
b) Check for rod lateral on all 8 rod throws	ED
c) Hammer test all main bearing nuts	ED/KC
d) Hammer test all rod nuts and bolts	ED/KC
e) Hammer test all piston cooling pipes	ED/KC
f) Check all rods for over- heating	ED/KC
g) Check for internal water leaks	ED/KC

AIR BOX INSPECTION REPORT UNIT#: 1037 DATE: 10-02-18

STATUS	PREVIOUS	POS	READING	LINER	RING	PISTON	RING	NEW
	READING			COND.	COND.	COND.	LAND	LEAD
							WEAR	READING
		1	.068/.061	ОК	TRS	ОК	.012	
		2	.061/.067	ОК	TRS	ОК	.008	
					WEAK			

	3	049/.054	ОК	TRS	ОК	.012	
C/O AS HEAD	4	.060/.062	ОК	ОК	CARBON	.013	
	5	.047/.046	ОК	TRS	ОК	.010	
	6	.054/.054	ОК	TRS	ОК	.013	
	7	.056/.061	ОК	ОК	ОК	.008	
	8	.055/.052	ОК	ОК	ОК	.008	
C/O AS HLP	9	.059/.059	WORN	WORN	WORN	.020	
	10	.057/.055	ОК	ОК	ОК	.008	
	11	.056/.055	ОК	ОК	ОК	.008	
	12	.057/.061	ОК	ОК	ОК	.008	
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						

INSPECTED BY: FOREMAN:

TOP DECK/AIR BOX/CRANK CASE INSPECTION DEFECTS

<u>DEFECTS</u> <u>SIGN OFF</u>

STANDARD INSPECTION ITEMS

FUEL SYSTEM

- a) C/O primary filters
- b) C/O secondary filters
- c) Clean fuel sight glasses
- d) Prime for leaks

COOLING SYSTEM

LUBRICATION SYSTEM

- a) C/O main lube oil filters
- b) C/O air compressor oil filter (if applicable)

AIR INTAKE SYSTEMS

- a) C/O engine air intake filters
- b) Clean out exhaust and traps
- c) Renew car body filters
- d) C/O a/c intake filters

AIR BRAKE SYSTEM

- a) Test Air Brake Gauges & Recalibrate
- b) Lubricate Hand Brake and Test Operation

TRUCK AND WHEEL ITEMS

- a) Check and fill all journal boxes
- b) Check and fill all support bearing oil levels
- c) Make sure all wicks are tight
- d) Check and fill all gear cases
- e) Check and replace or adjust all brake shoes
- f) Lube #1 and #2 truck center castings

CAB AND CAR BODY ITEMS

- a) Inspect all fire extinguishers (dates and securement)
- b) Check all wiper blades
- c) Check cab for fuses, torpedoes and flags
- d) Lubricate all shutter linkages and car body hinges

OUTBOUND - 92 DAY RUN CHECKS - MECHANICAL

- a) Check heater motors in cab
- b) Check all wiper motors
- c) Check horn and bell
- d) Check sanders (forward and reverse)
- e) Check A/C & A/C Governor for proper function

OUTBOUND AIR BRAKE TEST

- a) Independent leakage test
- b) Automatic brake leakage test
- c) Automatic application ball-off test
- d) Emergency application and PCS trip test

d) Maintaining feature test

MAIN RESERVOIR SAFETY TEST

- a) Drop control and fuel pump switch (watch M/R valve should blow @ 150 psi)
- b) Lift control and fuel pump beakers, record reading

ENGINE LOADING TEST

a) Make sure it moves in each direction

COOLING FAN TEST

a) Operate each temperature switch and make sure all shutter cylinders open and according fans engage with proper rotation

IDLE ENGINE – WALK AROUND TEST

- a) Top deck running inspection
- b) Check for fuel, water and oil leaks
- c) Check throttle speeds
- d) Check water, oil and sand levels
- e) Test engine protector and low oil button
- f) Check all inbound defects for repairs
- g) Idle oil pressure
- h) Idle engine temperature

ENGINE ROOM - WALK AROUND INSPECTION (IN 7TH OR 8TH NOTCH)

a) Check exhaust, fuel, water, and oil for leaks and repair

92 – DAY ELECTRICAL INSPECTION

UNIT # DATE

- 1.) Meg. Sys. /Ground relay trip Ohms Amps
- 2.) Check for low voltage grounds
- 3.) Main Generator
 - a) Check brushes and holders
 - b) Check for flashover & paint bare spots
 - c) Clean inside of generator if necessary
 - d) Check Slip Ring Brushes
- 4.) Load Regulator
- 5.) Check auxiliary generator
 - a) Check brushes & holders
 - b) Clean if necessary

6.) Voltage Regulator

VDC

- 7.) Traction Motors
 - a) Check brushes, holders and cables
 - b) Check for flashover & paint bare spots
 - c) Check motor leads & securement
- 8.) Fuel pump
 - a) Check brushes and armatures
- 9.) Electrical Cabinets
 - a) Check for loose wires & connections
- 10.) Control stand
- 11.) A C cabinet
 - a) Check for loose wires & connections
- 12.) Lighting Equipment
 - a) Check front & rear headlights and ditch lights
 - b) Check cab, car body & control stand lights
- 13.) MU receptacles
 - a) Check & Clean
- 14.) Batteries
 - a) Check & fill cells with water
 - b) Check battery connection
 - c) Check battery box connection
- 15.) Cab Heaters
 - a) Check motor brushes
 - b) Clean interior if necessary
 - c) Aux Heaters

ELECTRICAL INSPECTION DEFECTS

DEFECTS SIGN OFF