

Locomotive Release from Shop Form
To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive <u>3603</u> on this date <u>//-2/-/z</u> and take no exception to applicable laws, rules and or MMA standards, policies and standards.

Changed Eng Am filter
Changed Eng Am filter
Changed fuel filter

Greased Cooling Fan

Drive shaft

Aux. blower

oil sample taken — Plowels

	Serv	ice Ope		DUND LOAD TESTS	UNIT 3603 DATE 11-21-12
Eng RPM (900)	EMD			Lube Oil Pres	
Eng RPM (1050)	GE			Water Temp	
Horsepower		2290	IN/RS	Overspeed Setting	·
Volts (5.3)	B-23			RACK SETTING	
Volts (7)	C-30	5.4			
Volts (720)	B-39				
			THROTTLE #	T STALL TEST	
OP Mode	(PWR)				
AMPS	(300)		- NOT ADDUC		
MGA	(1220)		- NOT APPLICA	ABLE TO B-23 AND C-30	
Charging Rate	(70v)		<u></u>		

B-23, B-39, C-30, GP-7 MO3 INSPECTION	•
In-Bound Loadtest Electrical/Mechanical	WORKED BY:
ELECTRICAL	
VERIFY THE OPERATION OF THE GROUND RELAY	
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS	
CHECK OPERTION OF:	
A. HEATING	
COMPLETE THE IN-BOUND LOAD TEST SHEETS	· ·
GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	
CHECK THE FOLLOWING FOR PROPER OPERATION:	
A. CREW ALERT	
B. RADIO AND ANTENNA	
C. AXLE ALT. SPEEDO	
D. MU ENGINE SHUTDOWN	
E. FUEL CUT-OFF	
F. TEST WARNING DEVICES	
MECHANICAL	
CLEAN AND SERVICE TOILET AND RESTROOM	Toborde
DRAIN RETENTION TANK	Muste
PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	Mobile
INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS	- Plante
INSPECT COOLING SYSTEM:	Mordo
A: CHECK HOSES AND PIPES FOR LEAKS	- South
CHECK OPERATION OF ENGINE PROTECTION DEVICES:	
A. CRANKCASE PRESSURE	
VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	Mondi
PERFORM MANUAL AIR BRAKE TEST	
Verify Flow Gauge NOTE: 120-	
130 main reservoir is 64 + or - 3, 130-140 main	
reservoir is 60 + o	
PERFORM PENALTY BRAKE TEST	
CHECK FOR CORRECT AIR PRESSURE SETTINGS:	
A. MAIN RESERVOIR (130 - 140 PSI)	
B. BRAKE PIPE (90 PSI)	
C. EQUALIZING RESERVOIR (90 PSI)	
D. BRAKE CYLINDER (72 - 74 PSI)	
E. COMPRESSOR CONTROL (130 - 140 PSI +/-5 PSI)	
CHECK FLUID LEVELS BEFORE LOADING:	
A: ENGINE OIL	
B: COOLING WATER	
C: AIR COMPRESSOR OIL	A
TEST OPERATION OF THE FOLLOWING DEVICES:	
A. BELL	<u> </u>
B. SANDERS (FORWARD, REVERSE, EMERGENCY)	
C. RADIATOR SHUTTERS	

B-23, B-39, C-30, GP-7 MO3 INSPECTION	Revision Date: 8/18/2010 Issued By: Tim Scalia
	WORKED BY:
Electrical in House	
SERVICE THE BATTERIES AND COMPLETE JSP-010	QCp-
VERIFY EVENT RECORDER IS WORKING	(a) lyn
CHECK & RECORD THE DATE ON HEAD END DEVICE 4-18-12	J. Com
COMPLETE THE HEAD END DEVICE CONNECTOR SHEET	
CHECK THE FOLLOWING EQUIPMENT AND THEIR RELATED GUARDS AND LENSES FOR	
PROPER OPERATION:	No. Mary Property.
CHECK ALL GROUND AND STEP LIGHTS, FRONT AND REAR HEADLIGHTS, DITCH LIGHTS,	011
CAB LIGHTS, GAUGE LIGHTS, NUMBER PLATES, PLATFORM LIGHTS, ALL WARNING AND	
INDICATOR LIGHTS	uju
TRACTION MOTORS AND UNDERFRAME	
CHECK THE TRACTION MOTOR LEADS, VERIFY NO LEADS ARE RUBBING ON THE FRAME	1
INSPECT TRACTION MOTOR COVERS AND ENSURE BOLTS ARE IN PLACE AND TIGHT	
CHECK M.U. RECEPTACLE PINS AND LIDS. MAKE NECESSARY REPAIRS	12. Cofe
MAKE SURE M.U. CABLES DO NOT FOUL COUPLERS	(SICE)

B-23, B-39, C-30, GP-7 MO3 INSPECTION	
MECHANICAL IN HOUSE	WORKED BY:
REVIEW LAB CODE AND PERFORM A COMPLETE AIRBOX/CRANKCASE INSPECTION IF A LAB	
CODE EXISTS	
WITH THE ENGINE WARM, PRESSURE TEST COOLING SYSTEM AT 20 PSI FOR 15 MINUTES AND IF	
THE PRESSURE ON THE GAUGE DOES NOT DROP, THEN NO FURTHER ACTION IS REQUIRED	
CHANGE THE FOLLOWING FILTERS AND ASSOCIATED GASKETS:	
FUEL SPIN ON FILTERS. EMD ONLY	11 21 11 4 3 13 11 4 4 13 11 14 15 15 15 15 15 15 15 15 15 15 15 15 15
SOAK BACK FILTER, EMD ONLY	
TURBO SPIN ON FILTER, EMD ONLY	
COMPLETE FRA INSPECTION (DAILY INSPECTION CHECKLIST)	
CARBODY	
INSURE SAND NOZZLES AND HOSES ARE IN PLACE AND SECURED. MAKE SURE THEY ARE	
ALIGNED WITH WHEEL AND TRACK. INSPECT SAND TRAPS AND REPAIR AS NEEDED.	
INSPECT COUPLERS & DRAFT GEARS. MAKE REPAIRS AS NECESSARY	
CHECK KNUCKLE CLEARANCE AND KNUCKLE THROWER, MAKE REPAIRS AS NEEDED AND APPLY	
SPARE KNUCKLES (E AND F TYPE) (2.5")	·
INSPECT PIN LIFTERS CHECKING FOR PROPER HAND CLEARANCE AND ANTI-CREEP	
CHECK SNOWPLOW (IF EQUIPPED) FOR HANDHOLDS AND PROPER DISTANCE	6 blode
CHECK AUTO BLOWDOWNS FOR PROPER OPERATIONS IN AUTOMATIC MODE	0
ENSURE SUMP DRAINS ARE OPEN AND FREE OF DEBRIS	
TRUCKS	
INSPECT WICK BOLT SECUREMENT AND REPAIR IF NECESSARY	(Bhlaile a
CHECK SUSPENSION BEARING OIL LEVEL	Toplaren
CHECK JOURNAL BOX OIL LEVEL (FILL TO POINT OF OVERFLOW)	Q Blask
CHECK GEAR CASES AND INSPECT BULL GEAR (ADD 6lbs. OF GEARCASE GREASE)	Palsank
CHECK OIL FILLED GEAR CASES AND FILL (RECORD USAGE BELOW)	Mach
# 1 TRACTION MOTOR: OIL USED ZOKS (SCO	All les
# I TRACTION MOTOR. OIL USED	200
#2 TRACTION MOTOR: OIL USED	
# 3 TRACTION MOTOR: OIL USED	
# 4 TRACTION MOTOR: OIL USED	
# 5 TRACTION MOTOR: OIL USED	
# 6 TRACTION MOTOR: OIL USED CC LC	
INSPECT ALL BRAKE HANGERS, HEADS, GUIDES AND STRAPS ENSURING BRAKE SHOES ARE IN	() Dan
LINE WITH WHEELS	Splan
CAB	
CHECK FIRE EXTINGUISHERS, DATE AND TAG. REPLACE IF USED OR OUT OF DATE.	(3) And
CHECK CAB SEATS FOR PROPER OPERATION INSURING ALL BOLTS ARE IN PLACE AND TIGHT.	10/1/20
CHECK HANDBRAKE AND INSPECT DATE. MAKE REPAIRS AS NECESSARY	Dilana
MISC	
IN ACCORDANCE WITH FRA 229.23. VERIFY AIR GAUGES (+/- 3PSI) (CALIBRATE AT +/- 1PSI,	200 1:
REQUIRES 130 PSI MR)	Thouse
CHECK ALL FLUID LEVELS, ENGINE OIL, COOLING WATER, AIR COMPRESSOR OIL	- Tolowali
DRAIN RETENTION TANK	10 10
TOILET MAINTENANCE:	Mr. Went
A. INSPECT/REPAIR AS NEEDED TOILET DRAIN VALVE & FLOOR SEALS	Thomas
Cab Seat Inspection:	A Company of the Comp
A. INSPECT THE VERTICAL ADJUSTMENT LEVER. VERIFY THAT THE LEVER OPERATES AND THAT	
THE SEAT PAN ADJUSTS UP AND DOWN AND DOES NOT DROP SUDDENLY.	1 Prodlin
B. LUBRICATE PIVOT POINTS	- CC - C-1
C. INSPECT ROTATION ADJUSTMENT LOCKING PIN. VERIFY THAT THE LOCKING PIN OPERATES	
(PULL OUT TO RELEASE LOCK) AND THAT THE SEAT ROTATES WHEN UNLOCKED.	ĺ
D. LUBRICATE THE PIN MECHANISM.	
E. SEAT PAN COMPONENTS: INSPECT THE FORE-AFT FINE ADJUSTMENT LEVER. F. VERIFY THAT THE LEVER SLIDES SIDEWAYS TO UNLOCK SEAT FOR/AFT ADJUSTMENT AND	
	V
SEAT SLIDES FOR/AFT EASILY	

B-23, B-39, C-30, GP-7 MO3 INSPECTION	•
G. IF THE SEAT MOVEMENT IS IMPEDED, REMOVE SEAT CUSHION AND INSPECT SEAT PAN	Duc
ROLLER TRACK FOR DEBRIS, MALFUNCTION, OR LACK OF LUBRICATION.	yw -
H. INSPECT SEAT RAILS AND REPLACE IF DAMAGED OR WORN BEYOND PROVIDING SECURE,	
STABLE MOUNTING OF SEAT.	
I. INSPECT THE FORE/AFT SEAT POSITIONING TRACK. INSPECT THE SEAT RAILS AND REPLACE	
IF DAMAGED OR WORN BEYOND PROVIDING SECURE, STABLE MOUNTING OF SEAT.	
J. LUBRICATE THE SEAT RAILS WITH SILICONE LUBRICANT.	**************************************
K. INSPECT THE BACKREST RAKE ADJUSTMENT KNOW. VERIFY THAT THE KNOB ROTATES	
EASILY TO ADJUST BACKREST ANGLE.	/
L. INSPECT KNOB FOR CRACKS OR SPLITS AND THAT IT IS SECURELY FASTENED.	<u> </u>
M. INSPECT GEAR MECHANISM FOR ANY WEAR OR DAMAGE.	ar and a second
N. ENSURE THAT THE BACKREST MECHANICAL STOP IS INTACT AND FUNCTIONS AS INTENDED	
PREVENTS THE SEAT BACKREST FROM RECLINING BEYOND APPROXIMATELY 45 DEGREES	***
BACKWARDS FROM A VERTICAL POSITION.	4 19 19 19 19 19 19 19 19 19 19 19 19 19
O: INSPECT THE LUMBAR SUPPORT ADJUSTMENT LEVER. VERIFY THAT THE ADJUSTMENT	No. also and a second a second and a second
LEVER OPERATES EASILY TO ADJUST THE LUMBAR SUPPORT.	1
P: VERIFY ALL ARMREST FASTENERS ARE SECURE. REPLACE ANY MISSING OR STRIPPED OUT	references.
FASTENERS.	3
Q: INSPECT ARMREST SWIVEL FASTENERS. ENSURE SWIVEL FASTENER IS SECURE ON EACH	1.00
ARMREST SUCH THAT THE ARMREST IS WITHOUT SIDE TO SIDE MOVEMENT. ARMREST SHOULD	V. Likeron
SWIVEL TO VERTICAL. ARMREST SHOULD NOT DROP DOWN PAST IT'S ORIGINAL STOP.	D. Or .
R: INSPECT SEAT FABRIC ON SEAT PAN AND BACKREST. INSPECT FOR RIPS, TEARS, OR HOLES.	
SEAT PAN OR BACKREST COMPONENT MAY BE REPLACED IF THERE IS AN EXCESSIVE RIP, TEAR,	a avalence.
OR HOLE.	Conservation of the Conser
OKTIOLE.	17.0
	La company
SEAT PART NUMBERS:	
VERTITION INVIDENTE	1 1
· ·	
· ·	
Cab Seat, Freight with arms: 2043511	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221 INSPECT AND REPAIR AS REQUIRED:	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221 INSPECT AND REPAIR AS REQUIRED: A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221 INSPECT AND REPAIR AS REQUIRED: A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND SEALS/MIRRORS. ALSO LUBRICATE/CHANGE AS NEEDED	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221 INSPECT AND REPAIR AS REQUIRED: A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND SEALS/MIRRORS. ALSO LUBRICATE/CHANGE AS NEEDED A. CLEAN THE CAB, WINDOWS, AND EQUIPMENT	
Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221 INSPECT AND REPAIR AS REQUIRED: A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND	

16. On MUI engines, pull the Governor button and hold back the Lay-shaft while cranking the engine over to prevent unit from starting.							ing		
			oltages, is any		ect of need	ing replaced?	YES (NO		
2 Battery Units		Specific Gr	avity		Water Added				Replaced- eason
Battery 1	Cell 1	Cell 2	Cell 3	Cell 4	Yes	No	Yes	0	
Section A	1250) i250	1250	1250		ı		\mathcal{N}	<i>/</i>
Section B						2		_	
Section C						V			
Section D	V	V	V					_	
2 Battery Units		Specific Gr	avity		Wa	iter Added			/ Replaced- eason
Battery 2	Cell 1	Cell 2	Cell 3	Cell 4	Yes	No	Yes	О	
								N	~)
Section A	1250	1250	1250	1750				100	
Section B		<u> </u>			,	e_			
Section C						i e			
Section D	W								
8 Battery		Specific Gr	avity		Wa	ter Added		1 -	/ Replaced- eason
Units	Call 4		Cell 3	Cell 4	Yes	No	Yes	0	eason
	Cell 1	Cell 2	Cell 3	Cell 4	165	INO	163	U U	
Battery 1									
Battery 2									
Battery 3									
Battery 4									
Battery 5									
Battery 6									
Battery 7									
Battery 8									
BATTER	Y CRA	NKING V	OLTAGE C	HART					
		Battery 1	Battery 2	Battery 3	Battery 4	4 Battery 5	Battery 6	Battery 7	Battery 8
Battery V	'oltage	34.40	3482						
······································		Battery 1	Battery 2	Battery 3	Battery 4	I Battery 5	Battery 6	Battery 7	Battery 8
Battery V	oltage								
		Battery 1	Battery 2	Battery 3	Battery 4	Battery 5	Battery 6	Battery 7	Battery 8
CrankingE									
Voltag Battery ∨			1						A.,
— Dattery V	onage	L		<u></u>	L				
CrankingE		Battery 1	Battery 2	Battery 3	Battery 4	Battery 5	Battery 6	Battery 7	Battery 8

MONTREAL, MAINE, GATLANTIC RAILWAY BRUSH RECORD

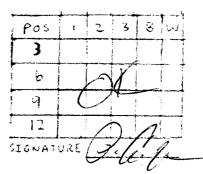
UNIT # 3603

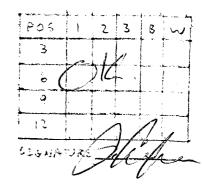
54 - 1171-12

MARTIN AUTERNATER

÷	P35	1	1	3	t	: 6	- X-V
	9		ļ				
i	10				Í		-
	· 11						1
	12			7			
ĺ			~				
-	1					2	<u>.</u>
4	IGRAT	ソえら	ار برا ماری -	14	//	<u>/-</u>	
			_	L		\sim	

NO. L TRACTION MOTOR





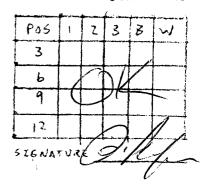
AUXILIARY GENERATOR

Pos	1	2	3	8	w
2			1		
¥		1		Magan Aug .	
8		フ	1	-	
10					

NO. 3 TRACTION MOTOR

Pos	1	2	3	ß	W			
3								
6		2	1					
9		\mathcal{J}						
12		S		2				
SIGNATURE /								
	L	$-\tau$	7.6	7				

NO. 4 TRACTION MOTOR



	5 9%	ع بي. مسيسيم	NE	KA?	e.					
POS		2	3	B	W					
2			1							
4										
.8										
10			1							
SIGNATURE (CY)										

NO. 5 TRACTION MOTOR

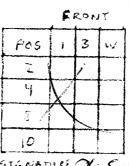
					A	
Pos	,	2.	3	В	W	
3			1	1		
Ь		77)/			
9			1			
12			$\overline{)}$			
SIGNAT	URE	11	//	1/0	10	
	L	<i>,</i>	t^{-}	7	7^	
				ı		

NO. 6 TRACTION MADIOR

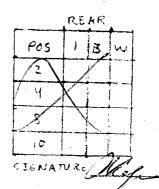
	P05	b	2	3	8	8
	3			ê	7	
	6		9	Ø		
	9		,			
I	12				2	
	SIGNAT	บÆยุ	1		1	

FUEL FUMP MIDTOR

Pos	1	B	·4/	
3	10	Ĺ		
9	\bigcup	7) /
SIGNA	÷ 23	تي ۽	Vi	4/



DYNAMIC BRAKING BLOWER MOTORS.



WINTERIZATION	
	Signature
vvinterization - Air iviiviA Locomotives. (August - April)	March
Inspect front and rear cab door seals replace, as needed (NO TAPE)	The la
Inspect left and right side window seals replace as needed.	1/16000
Inspect Electric cabinet door seals replace as needed.	
Operate Cab Heaters-Check condition of Heater Assembly @ 45o F above Ambient	
Temperature.	
Operate Window Defrosters-Check condition of Defroster @ 45o F above Ambient	
Temperature.	
If equipped, test the Auto Dump valve for proper operation.	
Test Manual Water Dump Valves, Proper Handle, Location, Orifice is Open.	To borde 1
Close Winter/ Summer doors if equipped.	Toborece
Check Traction Motor cover gaskets, install as needed.	Giliza 1
Check condition of Cab Door Hinges (Lubricate all Hinges)	- Carrily
Check condition of Cab Door Locks (Lubricate all Locks)	Town
Inspect Cab Windows Slider Rail, Adjust Top Rail as needed, Lubricate with Silicone	
Grease.	
Renew all Wiper Blades.	
Criteria for Door seal Replacement:	
A. Seal shows signs of Deterioration and or Medium to Heavy Cracking.	
B. Door seal is Torn or Loose from Door.	
C. With Door in the fully closed position has noticeable crack between door jam and	
cab carbody.	1
Criteria for Window seal Replacement:	
A. Seals shows signs of Deterioration and or Medium to Heavy Cracking.	
B. Seal is Torn or Loose from window seal.	
C. With windows fully in the closed position there is a gap between window frame and	V
carbody.	. "

Montreal, Maine, & Atlantic Railway Locomotive

	Unit	3603 Date 11-21-12
		3 Month Federal Air Work
	1.	Inspect and repair air piping and valves for leaks
	2.	Test all air gauges with gauge tester and set if required
5 ,	3.	1 0011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4.	Cover each trainline hose coupling with hand and test for leakage through valve, then apply blank dummy couplings to the trainline hoses on each end of the unit and open trainline valves. Make a 20lb. reduction with the Automatic, move the cutoff valve to "OUT" position and check for brake pipe leakage. Leakage shall not exceed 5 lb. per minute.
	Ch Le	Reduce main reservoir pressure to 85 lbs. by draining #2 main reservoir.(*) leck cab gauge for leakage from main reservoirs and piping for 3 minutes. lakage must not exceed an average of 3 lb. per minute during the
<i>t.</i>	Pre	Drain #1 main reservoir (*) completely and test check valve between reservoirs. essure should remain on the main reservoir gauge in the cab as #1 main reservoir is nined.
	_	
	or	Check all MU valve handles to ensure the locking devices work properly. Lubricate replace as cessary.
	8.	Check knuckle thrower to make sure it opens the knuckle. Lubricate or repair as

CONFIDENTIAL MMA-0007096

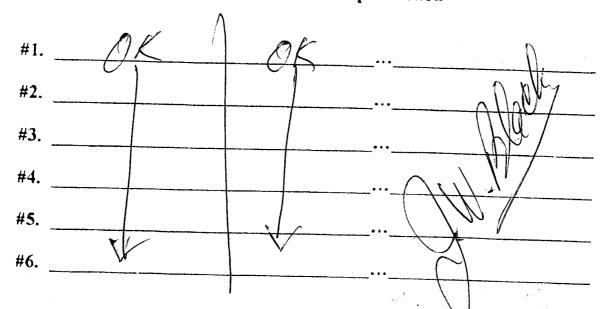
Note (*) #1 reservoir is without the check valve. # 2 is with the check valve.

Montreal, Maine, & Atlantic Railway Mechanical Department

Unit Number. 3009

Date 11-12

1. Inspect traction motor wicks and report action



New gasteets - Jalak Satty wire plugs - Jalak Ensitu Bolt Locks - Jalok

						LOCON	IOTIVE L	03	<u> </u>			DATE	11-21-	12
		Start	Readings		Ha	s Shims	1,70	Ī	END RE	ADING		Ha	s Shims	OLD GAUGE
	Flange Height	Flange Thickness	Rim Thickness	Witness Grove	YES	NO		Flange Height	Flange Thickness	Rim Thickness	Witness Grove	YES	NO	FLANGE THICKNESS MEASUREMENT
L#1	0-19	00	20				L#1.							0 - on 0 - 1 - 17/64* 1 - on 0 - 1 - 15/64*
L#2	019	00	24				L#2					ļ		2 - on 0 - 1 - 7/32" 3 - on 0 - 1 - 5/32" 4 - on 0 - 1 - 7/64"
L#3	021	00	26				L#3			-				5 - on 0 - 1 - 3/64° 6 - on 0 - 1 - 1/32° 7 - on 0 - 63/64°
L#4	0-19	00	28				L#4							8 - on 0 - 15/16"
L#5	019	00	24				L#5							
L#6	0.70	00	28				L#6							OLD GAUGE FLANGE
R#1	0-19	19-10	20				R#1				<u> </u>			HEIGHT MEASUREMENT 0-on-01*
R#2	17-20	NO	24				R#2							0-on-11-1/16" 0-on-21-1/8"
R#3	020	10	26				R#3							0-on-31-3/16" 0-on-41-1/4" 0-on-51-5/16"
R#4	0-19	00	28				R#4							0-on-61-3/8" 2-on-61-13/32"
R#5	0-18	00	24				R#5							4-on-61-7/16* 6-on-61-31/64*
R#6	0-21	00	VITCH LOCO				R#6							NEW GAUGE
FRA 1 ½" FRA 7/8" FRA 1" FRA 5/16" W FLANGE Height		1/16" " ROAD & SW	Flange Heig Flange Thick Rim Thickne Tread Wear TCH LOCOS – Rim THICKNESS	kness ess	REQ Tread WEAR	WEAR LIMITS Flange HEIGHT	Flange	LOCOS - MIN 92 Rim THICKNESS	DAY REQ Tread WEAR]			FLANGE HEIGHT MEASUREMENT	0-on-191-3/16" 0-on-201-1/4" 0-on-211-5/16" 0-on-221-3/8" 2-on-221-13/32" 4-on-221-15/32"
FRA 1 1/2"	FRA 7/8" MMA 1 1/32		FRA 1" MMA 1 1/8"		FRA 5/16" MMA ¼"	FRA 1 ½" MMA 1 7/16"	FRA 7/8" MMA 1"	FRA 1" MMA 1 ¼"	FRA 5/16" MMA 1/4"]				8-on-221-1/2*
CONVERS		T FOR WH	IEEL DIAME ¹ 37 7/8"	TER	22=	38 ¾"	29=	39 5/8"	36=	40 ½"				NEW GAUGE
9= 10=	37 1/8"	16= 17=	38" 38 1/8"		23= 24=	38 7/8" 39	30= 31=	39 ¾" 39 7/8"	37≑ 38=	40 5/8" 40 ¾"				0 – on 0 – 1 - 17/64" 1 – on 0 – 1 - 15/64"
11=	37 3/8"	18=	38 ¼"		25=	39 1/8"	32=	40"	39≔	40 7/8"			FLANGE	2 - on 0 - 1 - 7/32*
12= 13=		19= 20=	38 3/8" 38 ½"		26= 27=	39 1¼" 39 3/8"	33= 34=	40 1/8" 40 ¼"	40= 41=	41" 41 1/8"			THICKNESS	3 - on 0 - 1 - 5/32" 4 - on 0 - 1 - 7/64"
14=		21=	38 5/8"		28=	39 1/2"	35=	40 3/8"	42=	41 1⁄4"			MEASUREMENT	5 - on 0 - 1 - 3/64" 6 - on 0 - 1 - 1/32"
COUPLE	R HEIGHT	FRONT	FRA	PILOT HEIGHT	MAX 6"	FRONT	1	ORIZONTAL END ING LEVER IF US		NTAL		LOCO RA	IL CLEARANCE	7 – on 0 – 63/64" 8 – on 0 – 15/16"
FRA	MAX 34 1/3" MIN 31 1/4"				MIN 3"	9	HANDHOLD	FRA MIN 30"				FRA MIN 2 %	<u>'</u> 2"	
ММА	MAX 34 ½" MIN 32 ½"	32/g	ММА		MAX 6" MIN 3 1/3"	REAR 4/4		MMA MIN 30° FRA MAX 50° MMA MAX 50°				MMA MIN 3"	-	
	AMETER MEA			ROM THE TO	P OF THE WI	TNESS &ROO	VE 40" DIAMET	ER WHEELS WIT	NESS GROVE	= 36"				• 14 14
WHEEL MA	TCHING STA	NDARDS F	OR 6 AXLE LC				S ARE THE SA							
1 1/4" IS THE	MAXIMUM V	ARIATION A	ALLOWED, IN	WHEEL DIAM	METER, BET	WEEN ANY 2	WHEELS IN TH	SAME TRUCK I HE SAME TRUCK DIFFERENT TRU	WITH SHIMS	MS. APPLIED.				
DEMEMBED	THIS DITLE			Δe _c .	110			E WHEEL DIAMETER		R DIFFERENCE PE	OUIRES WHEE	CHANGE OR TE	RUED NOTF ON F	EMD LOCOMOTIVES
USE ONLY O	NE ¼" SHIM EME	PART NUMBE	R 8455981 SHELLE ENGTH •ONE SHE	D TREAD AND FL	AT SPOTS MUS	T BE TRUED OR C	CHANGED WHEN FO	OUND ON PERIODIC (OR UNSCHEDULED	MAINTENANCE. K	CS CONDEMNIN	G LIMITS FOR S	HELLED TREAD ON A	SERVICE TRACK:
	EC CIONAT		/	7	1	2.5								
EMPLOYE	ES SIGNAT	UKE I	/ /		11.			SUPERVISOF	S SIGNATU	RE				

Unit: 360 3 DEFECTS FOUND DURING INSPECT	Date: (1-2)-13
DEFECT Fire EXT in Eng Room Outdated	INSPECTED BY:
	76
REPAIR Seplaced	CORRECTED
DEFECT Jub drain pingged in Eng Room	INSPECTED BY:
	-10 Ca
REPAIR unflugged	CORRECTED
	7P6
DEFECT 2 Awaring Lights ent	INSPECTED BY:
	- Oue
REPAIR REPLIEVE BULBS	CORRECTED
	Dusc.
DEFECT	INSPECTED BY:
REPAIR	CORRECTED
	BY:
	I
DEFECT	INSPECTED BY:
REPAIR	CORRECTED

BY:

DEFECTS FOUND DURING INS	SPECTION
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:
DEFECT	INSPECTED BY:
REPAIR	DV.
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:

, ,	Descripti	on of Wo	ork Perf	ormed		
Locomotive ID	Time	Started		_ Time Finish	ed	<u>.</u>
					-	· · · · · · · · · · · · · · · · · · ·
		<u></u>				
					——————————————————————————————————————	
						· · · · · · · · · · · · · · · · · · ·
					·	
						····

		•				
						·
						3 2

Locomotive ID	Time Started	Time Finished	
			Annual Control of the
	<u> </u>		<u> </u>
		·	
	· · · · · · · · · · · · · · · · · · ·		
Employee Signature	Form to fill out com	pletely and Signature must be legi	ible.

DAILE	DESCRIPTION		TAX = #	QUANTY	INSTALLED	AWP
		-				

B-23, B-39, C-30, GP-7 MO3 INSPECTION	-
Out Bound Loadtest Electrical/Mechanical	WORKED BY:
ELECTRICAL	
VERIFY THE OPERATION OF THE GROUND RELAY	
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS	
CHECK OPERTION OF:	
A. HEATING	
COMPLETE THE IN-BOUND LOAD TEST SHEETS	
GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	
CHECK THE FOLLOWING FOR PROPER OPERATION:	
A. CREW ALERT	
B. RADIO AND ANTENNA	
C. AXLE ALT. SPEEDO	
D. MU ENGINE SHUTDOWN	
E. FUEL CUT-OFF	
F. TEST WARNING DEVICES	
MECHANICAL	
CLEAN AND SERVICE TOILET AND RESTROOM	-78brelle
DRAIN RETENTION TANK	-7 books
PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	ı
NSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS	1
NSPECT COOLING SYSTEM:	
A: CHECK HOSES AND PIPES FOR LEAKS	
CHECK OPERATION OF ENGINE PROTECTION DEVICES:	
A. CRANKCASE PRESSURE	
VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	
PERFORM MANUAL AIR BRAKE TEST	V
/erify Flow Gauge NOTE: 120-	
30 main reservoir is 64 + or - 3, 130-140 main	1
eservoir is 60 + o	
PERFORM PENALTY BRAKE TEST	
CHECK FOR CORRECT AIR PRESSURE SETTINGS:	
A. MAIN RESERVOIR (130 - 140 PSI)	
B. BRAKE PIPE (90 PSI)	
C. EQUALIZING RESERVOIR (90 PSI)	
D. BRAKE CYLINDER (72 - 74 PSI)	
E. COMPRESSOR CONTROL. (130 - 140 PSI +/-5 PSI)	
CHECK FLUID LEVELS BEFORE LOADING:	
A: ENGINE OIL	
3: COOLING WATER	
: AIR COMPRESSOR OIL	
EST OPERATION OF THE FOLLOWING DEVICES:	
A. BELL	
B. SANDERS (FORWARD, REVERSE, EMERGENCY)	
C. RADIATOR SHUTTERS	

			UNIT
	Service Op	erations	DATE
		HROTTLE 8 OUTBOUND LOAD TESTS	
Eng RPM (900)	EMD	Lube Oil Pres	
Eng RPM (1050)	GE	Water Temp	
Horsepower		Overspeed Setting	
Volts (5.3)	B-23	RACK SETTING	
Volts (7)	C-30		
Volts (720)	B-39		
		THROTTLE #1 STALL TEST	
OP Mode	(PWR)		
AMPS	(300)		
MGA	(1220)	NOT APPLICABLE TO B-23 AND C-30	
Charging Rate	(70v)	and the second s	

Quantum Desktop Playback



Manufacturer is QEI Version # S45E Serial Number is 0208040020 Customer is MMA

Data was removed on

- 07:48:35 on 11/21/12

Last Downloaded on

- 07:14:00 on 08/20/12

Battery was installed on - 04/02/08

Locomotive Number is

- 3603

Downloaded by -

P. Conlogue

Location

Derby

Train

1234

Wheel Size Entry -

Wheel Size used by program:

Circumference = 125.7 Diameter = 40.0

No memo present.

Wheel size used for printout is 125.66

QDP Version V



Quantum Desktop Playback Data Scan Report

Report Date: 11-21-2012

Locomotive 3603

Data Removed on 11-21-12

SPEED (MPH) OK
TRACTION MOTOR CURRENT OK
BRAKE PIPE PRESSURE OK
INDEPENDENT BRAKE OK

END-OF-TRAIN PSI

EP BRAKE REQUESTED

THROTTLE

Never above 20.

Never ON/ACTIVE

Stop never reported.

Low Idle never reported.

Notch 1 never reported.

REVERSE OK
EIE OK
PCS OK
HORN OK

EOT MOVING
EOT MSG. JUST RX
Never ON/ACTIVE
EOT LIGHT
Never ON/ACTIVE
EP OPERATING MODE
EP PENALTY BRAKE
EP ENGINEER EMERGENCY
Never ON/ACTIVE
Never ON/ACTIVE