

BAY 1 SOUTH

Rootes N	o.5 Blower	Item No. 41
PEARULI	Io. 751 THWAITES BROTHERS LTD ROOTES BLOWER	
ems:		
abla	Steam	
\square	Blowers 41, 42, 61.	
	NSWGR NO YORKSH	□ □ ☑ Steam

Description: The Rootes Blower is a single piston steam engine with twin shafts operating a counter-rotating vane air pump. The Blower supplies high volume low pressure air to the blacksmiths forges. The power pack is a simple vertical steam cylinder with a single shaft which is connected to a cross-head which has twin crank shafts. Each of the crank shafts is fitted to a driving wheel, direct coupled to a vane shaft.

History: The Rootes Blower was installed in 1904 to supply low pressure air to the Blacksmiths Forges. It is believed it was located in this position and has remained here since installation.

Function and Operation: The blowers supply air at low pressure compared to the air compressors which supply high pressure air. High pressure air is unsuitable for forges. When operating, the blower was turned on by opening the steam valve. The air was supplied to the furnaces or directed to exhaust.

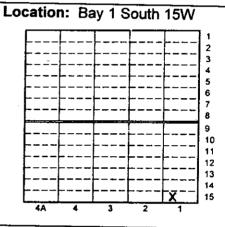
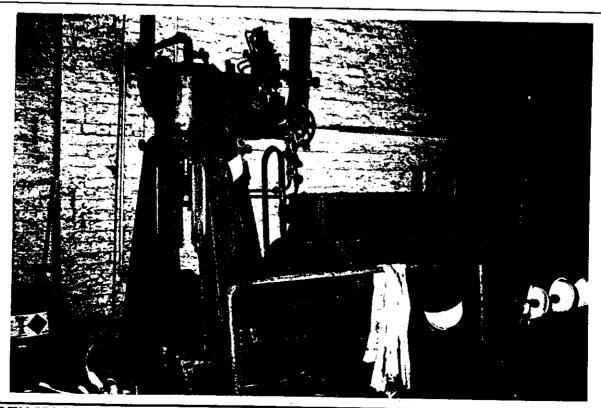


Photo:

FILM No. 95-169-1-8

Photographed and inspected December 1995



GODDEN MACKAY PTY LTD, 78 GEORGE ST, REDFERN NSW 2016 PH: (02) 319 4811

inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.

mer	pretation	1-
	promior	

			1990
Item Name:	Rootes N	o. 6 Blower	Item No. 42
No.6 ROOTES P	PATENT BLO	o. 755 THWAITES BROTHERS DWER BRADFORD YORKSHIRE	
Associated I	tems:		
Individual			
Assemblage			
System	\square	Steam	
Collection	Ø	Blowers 41, 42, 61.	
Description	The De	nton Diameter	

Description: The Rootes Blower is a single piston steam engine with twin shafts operating a counter-rotating vane air pump. The Blower supplies high volume low pressure air to the blacksmiths forges. The power pack is a simple vertical steam cylinder with a single shaft which is connected to a cross-head which has twin crank shafts. Each of the crank shafts is fitted to a driving wheel, direct coupled to a vane shaft.

History: The Rootes Blower was installed in 1911 to supply low pressure air to the blacksmiths forges. It is believed it was located in this position and has remained here since installation.

Function and Operation: The blowers supply air at low pressure compared to the air compressors which supply high pressure air. High pressure air is unsuitable for forgers as the amount of air going through is disruptive. When operating, the blower was turned on by opening the steam valve. The air was supplied to the furnaces or directed to exhaust.

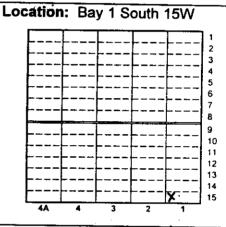
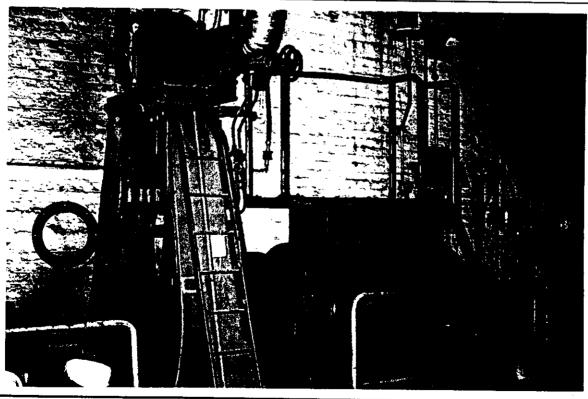


Photo:

FILM No. 95-169-1-9

Photographed and inspected December 1995



GODDEN MACKAY PTY LTD, 78 GEORGE ST, REDFERN NSW 2016 PH: (02) 319 4811

1996

Item Na	me: Ro	otes No.6 E	Blower				Item No. 42
<u> </u>					<u> </u>		1.00011110. 42
rust and	ral, the ite is cleane I bare m	ea, serviced	and tes condition	ted. The exte	rnal surfac	ding power sources are the of the item has patch to unknown and the po	es of superficial
Signific	ance Ma Historical	trix Aesthetic	Social	Technology/ Research Potential	State His	storical Themes:	Industrial Relic
Rare	X	X		×	Themes	☐ 13 Transport	
Repres-					i	15 Utilities	
entative	[2]			X		☐ 16 Industry	
VIIIIIII			_			18 Technology	
						20 Government Admi	nistration
Stateme	nt of Sig	nificance	- ···				
former in impressi education	n for ove manufact ve in size n potenti	r 80 years. uring techi e and form : al for devel	The iten nologies and exhit oping an	n is an integra now rarely e pits a unity in i understanding	al part of the evident in its design a g of early e	Vorkshops being associte steam system. The operating workshops and detail. The item has practice.	item represents The item is is research and
the blow	er collect serviced	tion and ste	eam syste	em to which it	belongs.	nt location and be preson The item is to be preson entation and maintena	erved by being l
Policy Ir	nplemen	itation:					
Policy Implementation: The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.							
Mainten	ance Scl	nedule			····		
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.							
Interpret	ation:	· · · · · · · · · · · · · · · · · · ·		, ,			
٠				•			ŕ
							1

14.				
Item Name: [Blacksmi	ths Forge	Item No.	44
Name Plate:	NSWTD	FB 12 50 -	<u>L</u>	
Associated It	ems:			
Individual				
Assemblage	\square	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A		
System		100 (00) 00 (00) 00 (00) 00 (00) 00 (00) 00 (00) 00 (00) 00 (00)	•	
Collection	\square	Forges 27A-H, 44, 59, 87, 88, 90, 93, 97, 99.		
<u> </u>				

Description: This forge varies from other forges in the shop in that it is constructed from angle iron and sheet steel for the canopy while the forge itself is brickwork. The tuyere which supplies the air to the forge is water cooled. It is not known why this forge is located in this position but it is possible that the previous standard cast-iron railway pattern forge reached the end of its life. Rather than move another forge, this one was constructed specifically for this location.

History: The history of the item is unknown.

Function and Operation: The forge is operated in precisely the same way as the other blacksmiths forges with the hearth having a bottom entry for the air and the water cooled tuyere entering from the rear. The amount of air supplied to the forge is controlled by the blacksmith through a small lever.

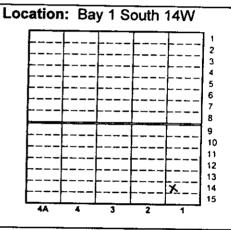


Photo:

FILM No. 95-169-1-11

Photographed and inspected December 1995



EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY CONSERVATION 1996 Item Name: Blacksmiths Forge Item No. 44 Condition: In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The item exhibits heavy rust in places. In places the sheet metal cover of the item is in ruinous condition. Significance Matrix State Historical Themes: Historical Aesthetic Social Technology/ Research Category ☐ Moveable Item ☐ Industrial Relic Potential ☐ 13 Transport Rare 至 Themes X ☐ 15 Utilities Repres-☐ 16 Industry entative \square × ☐ 18 Technology ☐ 20 Government Administration Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 50 years. The item has research and education potential for developing an understanding of early engineering practice. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric. **Conservation Policy:** The item is to retained in its present location and be preserved and reconstructed as part of the forge collection and electropneumatic system to which it belongs. The item is to be reconnected to its power source and made operational. The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below. Policy Implementation: All necessary repairs should be carried out to keep the item operational. Preservation action will depend on the amount of use the item is to receive. Conserve in situ.

The item is to be inspected annually and appropriate repairs and

Maintenance Schedule:

conservation carried out.

Interpretation:

Idama Alama	70145		
Item Name:	/CW1 Cr	ane	Item No. 45
Name Disto:	1400 10	AD NOT TO EVOLET STATE	<u>. l </u>
ivalite i late.	L439 LC	AD NOT TO EXCEED 7CWTS	
Associated It	ems:		
Individual			
Assemblage		Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A	4
System			٦.
Collection	\square	Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183,	195

Description: This small crane is of the jib-type. It has a kingpost constructed of C-Section steel. The jib is universal section and the jib is counter-weighted at its rear end. The jib is braced front and rear by twin steel straps. The jib carries a small carriage on rollers which is moved manually and from which is suspended an adjustable chain holder which held balanced tongs for gripping work which was being forged under the electropneumatic hammer.

History: The history of the item is unknown but it was erected in this position prior to World War II.

Function and Operation: The tongs in which the material was held were passed through the chain loop and the material was manipulated under the electro-pneumatic hammer.

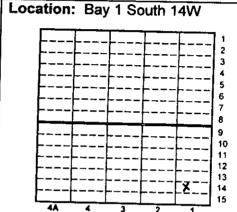


Photo:

FILM No. 95-169-1-12

Photographed and inspected December 1995



1996

Item N	ame: 7C	VT Crane					Item No. 45
Condit	ion:					<u> </u>	
The ite	m is in god	od structur	al repair	and has no ob	vious sign	s of rust.	
Signific	cance Ma	trix			State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare					Themes	☐ 13 Transport☐ 15 Utilities	
Repres-	_	_				16 Industry	
entative	E			Œ		☐ 18 Technology	
						20 Government	A desiminatoretion
Statem	ant of Sia	nificance	. Th. 2				omotive Workshops
999CIIID	iage. In	with their e item and gree of stri	a its ope	ration is easy	years. Th	e item is an integi et from its existin	ral part of the forge g fabric. The item
Conser	vation Po	licy:					
The item	is to reta	ined in its	nresent l	ocation and be	nroconio.	daa mawaa sii aa saa	ge assemblage and
Crane Co	mection to	which it b	elongs.				ge assemblage and
Policy li	nplement	ation:					
All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ.							
Mainten	ance Sch	edule	······································				
Inspect for	or physica	l damage	and dete	rioration every	12 months	s and implement re	pair as necessary.
Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.							
Interpret	ation:			<u> </u>	-		
							ł
		•					

Itam Names	100145		.000
Item Name: 1	IUCWI.	Jib Crane	Item No. 46
Name Plate:	LC 498	CLASS 3 S.W.L. 10CWT	
Associated It	ems:		
Individual			
Assemblage	\square	Steam Hammer 20 CWT 46, 47, 57, 66E, 71.	
System		10, 47, 07, 00L, 71.	
Collection	\square	Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 1	95
Description:	This ver	y early iib crane has a cast-iron kingnost and a wrought iron	

Description: This very early jib crane has a cast-iron kingpost and a wrought iron or mild steel jib. It is stayed front and rear, the rear being stayed to a point close to the bottom of the king post. This crane relies for its stability on its footing. The jib crane is a superb example of late nineteenth century design.

History: The crane was located in this position prior to World War 1. It could be one of the earlier machines erected at the Workshops.

Function and Operation: The slewing is done manually by dragging the jib. The carriage is also moved forwards and backwards manually while the lifting is done through a crank attached to the cast iron hoisting drum at the base of the King Post.

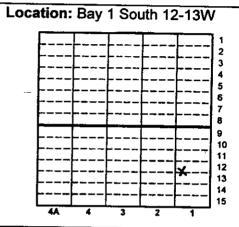
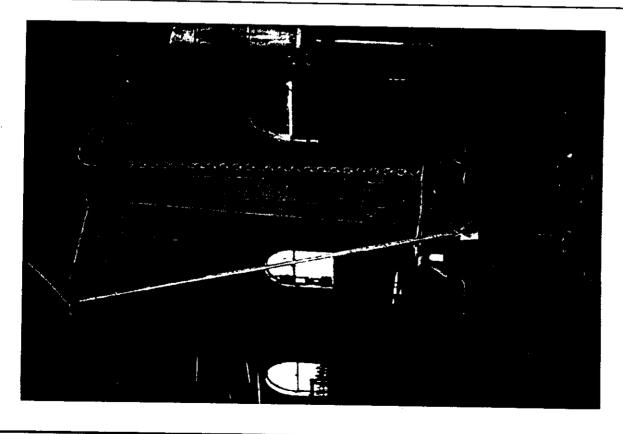


Photo: FILM No. 95-169-1-13

Photographed and inspected December 1995



EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY CONSERVATION 1996 Item Name: 10 CWT Jib Crane Item No. 46 Condition: The item is in good structural repair and has no obvious signs of rust. Significance Matrix State Historical Themes: Historical Aesthetic Social Technology/ Research ☐ Moveable item Category ☐ Industrial Relic **Potential** Rare ☐ 13 Transport Themes ☐ 15 Utilities Repres-☐ 16 Industry entative X × ☐ 18 Technology ☐ 20 Government Administration Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 80 years. The item is an integral part of the steam hammer assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity. **Conservation Policy:** The item is to retained in its present location and be preserved as part of the forge assemblage and

crane collection to which it belongs.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ. Grease bearings.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Grease bearings every 2 years.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

1996

Item Name: Oil Furnace							
	on i dirido		Item No.	47			
Name Plate:			<u></u>				
Associated Item	s:						
Individual							
Assemblage	Ø	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53. Steam Ham 47, 57, 66E, 71.	mer 20 CWT	46,			
System							
Collection	\square	Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 1	159, 161, 198				

Description: There are two large oil furnaces in Bay 1 South. Both were for heating large billets which were to be worked under the 40CWT Steam Hammer or the 20CWT Steam Hammer. The furnaces are in excess of 2 metres wide, 3 metres long and stand about 2 metres high. Each is fitted with a heavy steel framed, fire-brick lined door which is counter-weighted by a chain to the rear. The door is lifted by a chain driven wheel. Initially, it is believed that these furnaces were fired by gas and they were later converted to oil. The furnaces are braced with universal section members and in-fill cast-iron and sheet steel sheathing. The interior is lined with fire brick. Air for the furnaces, because of the

History: The history of the item is unknown but it is believed that it was installed in this position prior to World War II. However, as with many furnaces, this one may have been re-built on a number of occasions.

Function and Operation: This furnace originally supplied indirect or reflected heat through a reverberatory style roof. The oil is supplied from an elevated external reservoir. The air is now supplied from a specially introduced air compressor.

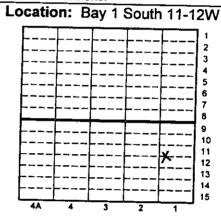


Photo:

FILM No. 95-169-1-14

Photographed and inspected December 1995



1996

<u> </u>	ame: Oil	Furnace					Item No. 47
Condit	ion:				"" 		
In gene the item	ral, the ite is cleane	em appears ed, service	s to be in d and tes	operable condited.	dition provi	ding power sources are	e connected and
The ext	ernal surf	ace of the	item has	patches of su	perficial ru	st and bare metal.	
Signific	ance Ma	trix	7	•	State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item ☐	Industrial Relic
Rare					Themes	☐ 13 Transport☐ 15 Utilities	
Repres-	-		_	_		16 Industry	
entative	×			X		☐ 18 Technology	
						20 Government Admi	nistration
being a hammei item ext	ssociated r assembl nibits a hig	with their age. The Jh degree	operation item and	for over 40	years. The	of the Eveleigh Locomo e item is an integral pa interpret from its exist	art of the steam
Conser	vation Po	olicy:				•	
The iter assemb	n is to re lage and f	etained in furnace co	its prese llection to	nt location ar which it belor	nd be pres	served as part of the urnace is to remain ope	steam hammer erational.
Policy I	mplemen	tation:		· · · · · · · · · · · · · · · · · · ·			
The furr situ.	The furnace is to remain operational and therefore cannot have its surface treated. Conserve in situ.						
Mainter	ance Sch	nedule				,	
Inspect for physical damage and deterioration every 12 months and implement repair as necessary.							
Interpre	tation:	, <u>, , , , , , , , , , , , , , , , , , </u>	· · · ·				
	•						
							1
							1

				1990
Item Name:	Furnace			Item No. 48
Name Plate:	NSW TD	PP 14 S.O		<u> </u>
Associated It		<u> </u>		
Individual				
Assemblage				
System				
Collection	\square	Furnaces 47, 48,	, 53, 56, 59, 79, 86, 95, 97, 99, 106	S, 110, 111, 129,
		159, 161, 198.		
Description:	This rela	atively small gas furna	ace was used for heating items to b	pe forged on the

Description: This relatively small gas furnace was used for heating items to be forged on the steam hammers or to be worked under the hydraulic press. The frame is cast iron and sheet steel lined with fire brick. The heavy front door is counter-weighted on both sides and is lifted by manipulating or by pressing on the counter-weights.

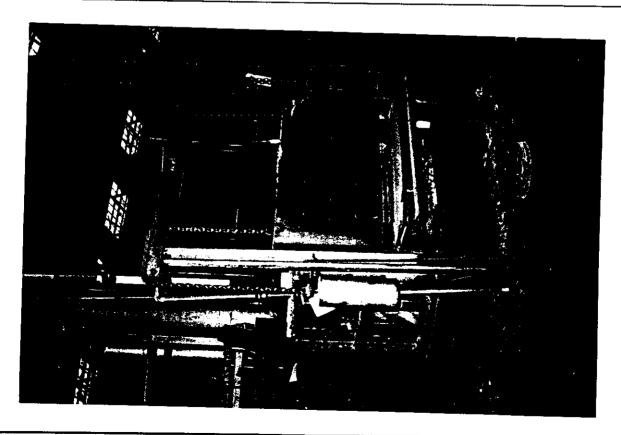
History: The history of the item is unknown but a furnace has been in this location since 1917.

Function and Operation: The furnace was operated on the direct heat principle.

Photo:

FILM No. 95-169-1-15

Photographed and inspected December 1995



1996

Item Na	ame: Fur	nace					Item No. 48
Conditi	ion:			· <u> </u>			
In gene the item	ral, the ite	em appears ed, service	s to be in d and tes	operable condited.	dition provi	iding power sources	are connected and
The ext	ernal surf	ace of the	item has	patches of su	perficial ru	st and bare metal.	
Signific	ance Ma	trix			State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	_	☐ Industrial Relic
Rare					Themes	☐ 13 Transport☐ 15 Utilities	
Repres- entative	E			X		☐ 16 Industry ☐ 18 Technology	
<u> </u> 						20 Government Ad	ministration
being as hammer	ssociated assembl	with their age. The	operation item and	for over 40 v	ears. The	of the Eveleigh Locor e item is an integral interpret from its ex	part of the steam
Conser	vation Po	licy:					<u>.</u>
The iten assemble operation	lage, turna	retained i ace collect	n its pres ion and h	sent location a hydraulic syste	and be pre em to which	eserved as part of the hit belongs. The fur	ne hydraulic press rnace is to remain
Policy I	mplemen	tation:			· · · · · · · · · · · · · · · · · · ·		
The furn	The furnace is to remain operational and therefore cannot have its surface treated. Conserve in						
Mainten	ance Sch	edule			, <u>,, , , , , , , , , , , , , , , , , ,</u>		
Inspect for physical damage and deterioration every 12 months and implement repair as necessary.							
Interpre	tation:		·			- Au	
		•					

Item Name:	18" Hydra	aulic Ram Press	Item No. 49
Name Plate: PATENT WOOD!	P.T.C. NS	W PF - 643 EVE S/O TANGYE BROS BIRMINGHAM	
Associated It			
Individual			
Assemblage			
System		Hydraulic 49, 52, 144, 152-154, 158, 184-187, 193,	194 213
Collection		, , , , , , , , , , , , , , , , , , , ,	104, 213.
Description	This		

Description: This small press of the Patent Woodury type was manufactured by Tangye Brothers of Birmingham in 1888. It exhibits all of the hallmarks of the extremely simple and very effective machinery of the nineteenth century that was used by the railways up until the late twentieth century. The ram press consists of a massive cast-iron footing from which there are four threaded shafts extending vertically for about 1.8 metres. A fixed head is attached to these shafts by massive nuts, one above and one below the head. The head can be raised or lowered to any height and fastened into place by the dexterous use of a massive spanner. Items to be pressed are placed on the platen and hydraulic pressure is introduced through a simple lever. The platen then raises and presses the item against the head. It is possible to use dies above and below the piece being worked.

History: The item was installed in the workshops in 1888. It is believed that it has been located in this position since that time.

Function and Operation:

Photo:

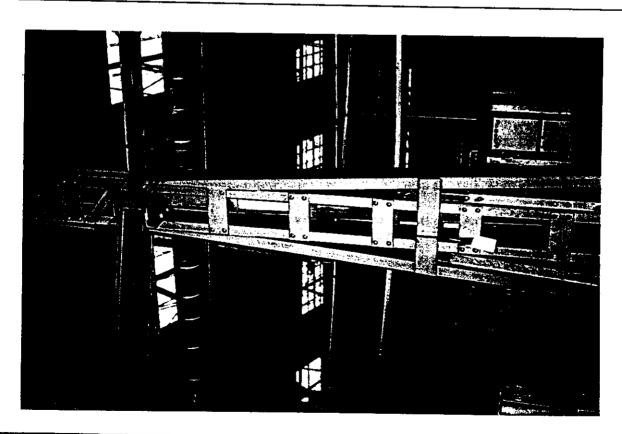
Photographed and inspected December 1995

1996

Item Na	Item Name: 18" Hydraulic Ram Press Item No. 49										
Condition:											
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. In general, the item appears to be incomplete and not operable because of missing components. The condition of internal components is unknown.											
Signific	ance Ma	trix		<u> </u>	State His	storical Themes:					
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic				
Rare	X	×		×	Themes	☐ 13 Transport					
Repres-						☐ 15 Utilities					
entative	×			×		16 Industry					
Ciliadive				₩.		18 Technology					
						20 Government .	Administration				
being as system. worksho The item	Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 95 years. The item is an integral part of the hydraulic system. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.										
Conserv	ation Po	olicy:									
The item assemble	n is to re age and l	etained in i hydraulic sy	ts presei	nt location ar which it belon	nd be pres gs.	served as part of	the hydraulic press				
The iten	n is to ntation a	be presen nd mainten	ved by I ance sch	oeing cleane edules given i	d, service below.	d and maintained	d according to the				
Policy In	nplemen	itation:									
rust is to	be remo	ces are to wed or trea SIS fluid or	ted. All e	external surfa	ased using ces are to	g appropriate meth be treated with an	nods. All superficial appropriate sealant				
		e disconnec nserve in si		ned, dried and	d treated w	rith rust inhibitor. 7	They may then be				
Mainten	ance Scl	nedule									
		al surfaces on section.	for rust e	every 12 mont	hs. Where	e necessary, coat	as recommended in				
	Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.										
Interpret	tation:										
- I							* .				

EVELEIGH LOCOMOTIVE WORKSHOPS MAC

hom Name 18 6	1996
Item Name: Jib Crane	Item No. 50
Name Plate: N/A	
Associated Items:	
Individual	
Assemblage	
System	
Collection	105
Description: This fairly modern jib crane has a king post which is made from ar and is of a robust construction. The crane is believed to have been manufacture. War II as sections of the crane are riveted and bolted together. History: Unknown.	ngle section stee ed prior to World
mstory. Onknown.	
Function and Operation: The Jib Crane is used for moving hot material from the furnaces to the steam hammers. Location: Bay 1 South	th 10W
Photo: FILM No. 95-169-1-17 Photographed and inspected Decem	- '



GODDEN MACKAY PTY LTD, 78 GEORGE ST, REDFERN NSW 2016 PH: (02) 319 4811

1996

item Na	ame: Jib	Crane					Item No. 50			
Conditi	on:				<u> </u>					
The item is in good structural repair and has no obvious signs of rust.										
			ч. торил т		vious signi	o or rust.				
Signific	ance Ma	trix			State Uie	storical Themes:				
J	Historical	Aesthetic	Social	Technology/		_	_			
		•		Research Potential	Category	☐ Moveable Item ☐	Industrial Relic			
Rare					Themes	13 Transport				
Repres-						15 Utilities				
entative	X			Œ		16 Industry				
			_			18 Technology				
						20 Government Adn				
being as collection	ssociated n. The ite	with their	operation operatio	for over 30 ye	ears. The	of the Eveleigh Locom item is an integral pa m its existing fabric.	rt of the jib crane			
Conser	vation Po	licv:								
		•		4 (a.v1°	•					
which it	belongs.	ained in n	s presen	t location and	be preser	ved as part of the cr	ane collection to			
Policy I	mplemen	tation:			 					
rust is to	be remo	ved or trea	ited. All e	ed and degreas external surfac stalline wax. C	es are to t	appropriate methods. pe treated with an app situ.	All superficial ropriate sealant			
Mainten	ance Sch	redule								
Inspect	for physic	al damage	and dete	erioration ever	y 12 month	ns and implement repa	air as necessary.			
Inspect a	all externa entation se	al surfaces ection.	for rust e	every 5 years.	Where ne	cessary, treat as reco	mmended in the			
					-					
Interpre	tation:		<u>-</u>							
				,						
				•						
							;			

Item Name: Bre	ett Type Impact Punch		1996
remitante. Dit	at Type Impact Funch		Item No. 51
Name Plate: NS	SWTD 28 883 SO RW 4227 BRETTS PATE	ENT TYPE AD SIZE No 9 CO	VENTEN
PATENT No. 710	DICTIONAL	INT THE AD SIZE NO.8 CO	VENIRY
Associated Item	ns:		
ndividual			
Assemblage	<u>ਹ</u>		•
System			
Collection			
	-		
ounching ram locate almost three metres	is massive shear and punch has an extraordinar top and bottom. It has a centrally located fly d on each end of the shaft. The item is almost tw high. It was originally powered from an overhead een attached to a specially constructed platform or	wheel which is direct coupled to metres wide, in excess of three shaft but a stand-alone elec-	to the shearing
listory: The history if the history if the history if the history is the history in the history in the history in the history.	ory of the item is unknown but it is believed to have his was the items original location.	e been installed in the workshop	prior to World W
nertia. The massiv attached by a belt to gear box. Once the heir dies located dir of the slow speed of bunch and moved as	peration: The Brett Punch operated through e fly wheel which would weigh several tonne is a pulley driven by the electric motor through a fly wheel reaches its running speed, the jaws with ectly below are automatically operated. Because f the machine items can be placed beneath the the punch is raised and lowered relatively slowly.		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1
hoto: Fil	.M No. 95-169-1-18 Photographe	d and inspected Decemb	er 1995
			
		Control of the Contro	
			. en 1
			1 S. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			1 2 · 14.

Item Name: Brett Type Impact Punch Size No.8										
			paver und) I VIZE 11U.O			Item No. 51			
Conditi	on:				-					
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested.										
The exte	ernal surf	ace of the	item has	patches of su	perficial ru	st and bare metal.				
Signific	ance Ma	trix			State His	storical Themes:				
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	<u></u>	Industrial Relic			
Rare	Ø	Ø		Ø	Themes	☐ 13 Transport☐ 15 Utilities				
Repres-	- 7	_	F-3	_		☐ 16 Industry				
entative	\square			Ø		☐ 18 Technology				
						20 Government Admi	nistration			
Stateme	nt of Sig	nificance			·					
construct nature of The item	tion and the state of the state	r 90 years. which had rk practice: a high deg	The iter general e s. The ite	n is a large, r engineering a	are, indus pplication. eration is e	Vorkshops being assoc trial piece exhibiting m The item will yield info asy to interpret from its	assive cast-iron			
Conserv	ation Po	licy:		1			,			
preserve	is to be d by be	e reconne	cted to it ed, servic	s power sour	rce and m	ved as part of the pund nade operational. The ocording to the imple	item is to be			
Policy In	nplemen	tation:			-					
All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. All moving parts of electric motors are to be covered to prevent ingress of dust. Conserve in situ.										
Maintena	ince Sch	edule:	*	· · · · · · · · · · · · · · · · · · ·						
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.										
Interpret	ation:									

Mars Mars at 1							
item Name: F	Item Name: Hydraulic Press						
Name Plate:	RWY No	. 817					
Associated Ite							
Individual							
Assemblage	lacksquare	52, 53, 68C					
System	\square	Hydraulic 49, 52, 144, 152-154, 158, 184-187, 1	93. 194. 213				
Collection		, , , , , , , , , , , , , , , , , , , ,					
Description	Th:- 24 3						

Description: This item is similar in design to the Tangye Hydraulic Press, Item No. 49. It consists of a massive castiron platform which supports four vertical shafts in excess of two metres long. The shafts are partially threaded which allows the massive cast-iron head to be raised or lowered. A series of dies can be fitted to the head through T-slots. The bed can also take a number of dies again through T-slots. This machine has specially cut threads which allow the head to be raised and lowered and the bolts on these heads are round rather than being faceted and are raised or lowered by means of a tommy bar rather than a spanner. The machine shows considerable refinement over the Tangye Press although its operating principle is precisely the same.

History: The machine was installed in this location in 1949. It is not known when it was manufactured or if this was the first location in which it was erected.

Function and Operation: The operation is extremely simple. Fluid under hydraulic pressure is allowed into the base of the ram and the bed is forced towards the head of the machine, compressing hot metal either between platons or in a die.

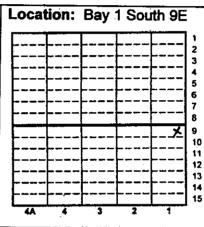
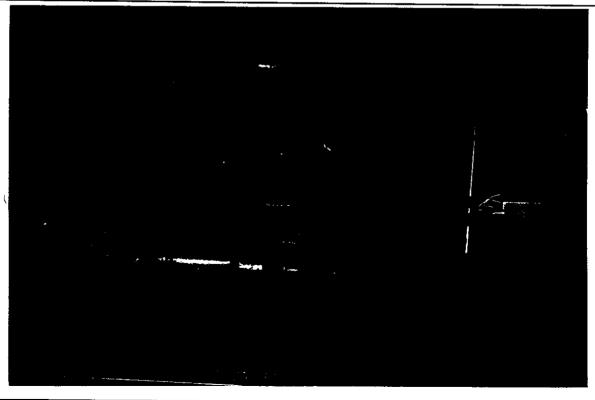


Photo:

FILM No. 95-169-1-19

Photographed and inspected December 1995



Item N	ame: Hyd	raulic Pre	ss RWY	No. 817		<u>.</u>	Item No. 52	
Condit	ion:			<u> </u>	···			
In gene	eral, the ite n is cleane	em appears ed, service	s to be in d and tes	operable conditions	dition provi dition of int	iding power sources are ernal components is ur	e connected and nknown.	
Signific	cance Ma	trix		·	State His	storical Themes:		
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	_	Industrial Relic	
Rare	X	×		×	Themes	13 Transport		
Repres-					<u> </u>	☐ 15 Utilities☐ 16 Industry		
entative	×			X		☐ 18 Technology		
						20 Government Admi	nistration	
worksho The iter easy to	ops. The n will yiek	item is im d informati rom its exi	pressive on on the	in⁻size and fo e nature of pa	orm and ex st work pr	logies now rarely evide whibits a unity in its de actices. The item and degree of structural inte	sign and detail. its operation is	
The iter	m is to re	tained in	its prese ystem to	nt location ar which it belon	nd be pres gs.	served as part of the	hydraulic press	
The ite	m is to i entation ar	be preser nd mainten	ved by ance sch	being cleane nedules given l	d, service below.	d and maintained ac	cording to the	
Policy I	mplemen	tation:			<u> </u>			
The madinternal	chine is to bare meta	be strippe Il surfaces	ed, all cyli are to be	inders cleaned dried and gre	l and dried eased to pr	l, all bearings and gland event rust.	ds repacked, all	
rust is to	be remo	ved or trea	ated. All	ed and degre external surfac talline wax.	ased using ces are to	g appropriate methods. be treated with an appi	All superficial ropriate sealant	
All pipes reconne	s are to be cted. Cor	e disconne nserve in si	cted, cle itu.	aned, dried ar	nd treated	with rust inhibitor. The	ey may then be	
Mainten	ance Sch	nedule						
	Inspect all external surfaces for rust every 12 months. Where necessary, surface treat as recommended in the implementation section.							
	Every five years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.							
Interpre	tation:							
					•			

 Item Name: Furnace FR 13

 Name Plate: NSWTD FR13

 Associated Items:

 Individual
 □

 Assemblage
 Ø

 System
 □

 Collection
 Ø

 Furnaces
 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 159, 161, 198.

Description: This small reverberatory type furnace was used for heating material for the Hydraulic Press. It is gas-fired about 1.2 metres deep, stands about 1.6 metres high and is 1.2 metres wide. It is composed of a cast iron and sheet steel or plate frame lined with fire brick. Double sided rail has been attached to the front of the machine from which the front door has been suspended. The door was originally counterweighted and opened by pressing the counterweights suspended from the twin head rail portal.

History: The history of the item is unknown.

Function and Operation: Materials were simply placed in the furnace and heated by the introduction of gas and air.

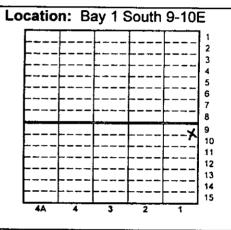


Photo:

FILM No. 95-169-1-20

Photographed and inspected December 1995



1996

Itom N						- CHOLKIANON	1330
Itelli M	ame: Fu	mace FR 1	3				Item No. 53
Condit	ion: In	general, the	e item an	nears to be in	oporoble	condition providing p	
connec	ted and i	the item is	cleaned	pears to be in serviced and t	operable	condition providing peritem will need some	ower sources are
exhibits	s heavy r	ust in place	s. The c	ondition of the	DOWAL SOL	e item will need some arce is unknown and I	repair. The item
disconr	nected.	•			power suc	ince is miknown and i	ias probably been
0: 10							
Signific	cance Ma				State His	storical Themes:	
	Instruction	Aesthetic	Social	Technology/ Research	Category	☐ Moveable Item 〔	7
	_	_	_	Potential	Category		Industrial Relic
Rare					Themes	☐ 13 Transport	
Repres-						15 Utilities	
entative	×			×		16 Industry	
				_		18 Technology	
04.4						20 Government Adr	ninistration
Statem	ent of Si	gnificance		· .			
The iten	n was ar	integral pa	art of the	Eveleigh Loc	comotive V	Vorkshops being ass	ociated with their
operatio	n for ove	r 30 years.	The item	is an integra	part of the	hydraulic press asse	ociateo with their
				J	•	, ,	inblage.
Conson	vation Po	-lieu	<u></u>				
		•					
The item	is to ret	ained in its	present l	ocation and be	e preserve	d and retained as par	t of the hydraulic
press as	semblag	e and furna	ce collec	tion system to	which it be	elongs.	
The iter	n is to	be preserv	ved by	being cleaned	d. serviced	d and maintained a	ccording to the
impleme	ntation a	nd mainten	ance sch	edules given t	pelow.	- and mantanea a	coording to the
Dollar la		4-4"					
rolley if	mplemen	itation:					
All exter	nal surfa	ces are to l	he clean	ad and deare	and union	appropriate methods	
rust is to	be remo	ved or treat	ted. All e	external surfac	aseu using es are to t	e treated with an app	S. All superficial
such as	Shell EN	SIS fluid or	polycryst	alline wax.	cs are to f	be treated with an app	propriate sealant
All pipes	are to be	disconnec	ted, cleai	ned, dried and	treated wi	th rust inhibitor. They	may then be
reconnec	cted. Cor	iserve in sit	u.			•	
Mainten	ance Sch	redule		· · · · · · · · · · · · · · · · · · ·			
		ioddig					
Inspect	all interr	ial externa	i surface	es for rust e	everv 2 v	ears. Where nece	ssany treat as
recomme	ended in t	he impleme	entation s	ection.	· · · · · · · · · · · · · · · · · · ·	ours. Where hoos	ssary, treat as
					•		
Interpret	ation:						
							.
							Ť
]

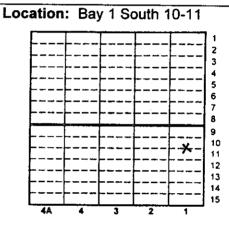
Item Name: 4	Item No. 54		
Name Plate:	NSW G	R No. 664 Class HS 4867 (on machine)	
Associated It	ems:		
Individual			
Assemblage	Ø	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 5	3
System		Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191	_
Collection	Ø	Steam Hammer 28, 29, 31, 32, 54, 57	

Description: This massive, arch framed steam hammer is one of the oldest pieces in the workshop. It is over 3 metres long, a metre wide and stands in excess of 4 metres high. The massive frame supports the steam chest and the weighs or slides for the hammer itself. The hammer is double-acting and it is used predominantly for forging using only flat dies and anvils. The machine could only be used by specialists/blacksmiths/forgers.

History: The Arch Hammer was installed in 1887 as part of the original steam hammer shop. It has remained in this location ever since. It is shown in some of the earliest interior photographs of the workshops. The steam hammer was the largest ever to be erected at Eveleigh and was continuously used for 100 years. It is believed that almost all of the hammer remains, as originally installed, although some oiling mechanisms and some modification may have taken place to the steam chest.

Function and Operation: The steam hammer was operated by a foreman striker, or blacksmith through the use of a single lever. The lever determined the length of the blow and hence the weight and also the frequency of the blow. The operation lever is attached directly to linkages at the steam chest. Material which was being forged was held in large balanced tongs similar to the tongs used for the Davey Press. These tongs were placed through a chain loop attached to a carriage on the Jib Crane.

Photo:



to: FILM No. 95-169-1-21 Photographed and inspected December 1995

Itama Nas	40 0145	T A I-	<u> </u>			(14 400T BYATT)	1				
HS 664	ne: 40 CVV	I Arch	Steam H	ammer No. 48	86/ Date o	of Man.1887, RWT No.	Item No. 54				
110 00-											
Conditio	n:					· · · · · · · · · · · · · · · · · · ·					
In genera	al, the item a	ppear	s to be in	operable cond	dition provi	iding power sources ar	e connected and				
the item	is cleaned, s	ervice	d and tes	led.		- '					
The external surface of the item has patches of superficial rust and bare metal.											
Cianifica	Significance Matrix State Historical Themes:										
-		sthetic	Social	Technology/	State His	storical inemes:					
			000	Research	Category	☐ Moveable Item ☐	Industrial Relic				
Rare	X	X		Potential	Themes	☐ 13 Transport					
11010	_		_	ea		15 Utilities					
Repres-						☐ 16 Industry					
entative	Ø			X		☐ 18 Technology					
						20 Government Adm	inistration				
Statema	nt of Signifi	canca	. The ite	m was an inte	arrel port	of the Eveleigh Locom					
						ne item is an integral p					
						ng massive cast-iron					
			_	•		ents former manufactur					
						ressive in size and for					
unity in i	ts design ar	nd deta	ail. The	item has rese	earch and	education potential for	r developing an				
	_	-			•	yield information on th	•				
			-		sy to inter	pret from its existing f	abric. The item				
exhibits a	a high degree	e of str	ructural in	tegrity.							
						t location and be pres					
the arch	hammer ass	embla	ge, steam	hammer colle	ection, and	d steam system to whic	h it belongs.				
The item	n is to be	prese	rved by	being cleane	d, service	ed and maintained a	ccording to the				
				nedules given			•				
						, all cylinders cleane					
_	-	•				faces are to be dried	_				
						reased using appropria					
•						l surfaces are to be rystalline wax. All p					
						They may then be r	-				
						be suitably polished an					
			•			illine wax. Conserve in					
						st every 12 months. W					
coat as recommended in the implementation section. Every 2 years internal surfaces should be											
		•		ation product	must be t	reated suitably by being	ng removed and				
coated w	rith an inhibit	or and	ı sealant.								
All opers	tina surface	e evhit	nitina e na	rmally bright t	finish show	ald be suitably polished	and coated with				
•	_		-	ENSIS fluid o		-	and obdite Hill				
pp.0	pirate ecolor	5401	11011			,					
Interpre	tation:										
1											
				•							

 Item Name: 10CWT Jib Crane

 Name Plate: LC497 Class 3 S.W.L. 10 CWT

 Associated Items:

 Individual
 □

 Assemblage
 ☑

 System
 □

 Collection
 ☑

 Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195

Description: This very early jib crane has a cast-iron kingpost and a wrought iron or mild steel jib. It is stayed front and rear, the rear being stayed to a point close to the bottom of the king post. This crane relies for its stability on its footing. The jib crane is a superb example of late nineteenth century design.

History: The crane was located in this position prior to World War 1. It could be one of the earlier machines erected at the Workshops.

Function and Operation: The slewing is done manually by dragging the jib. The carriage is also moved forwards and backwards manually while the lifting is done through a crank attached to the cast iron hoisting drum at the base of the King Post.

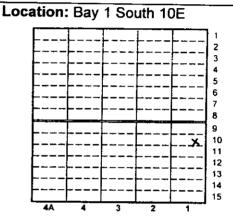
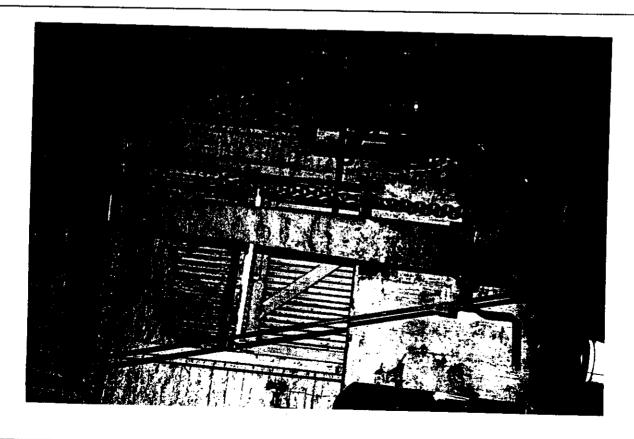


Photo:

FILM No. 95-169-1-23

Photographed and inspected December 1995



1996

Item Na	me: 10	CWT Jib C	rane				Item No. 55			
Condition	n:									
The item	is in go	od structur	al repair :	and has no ob	vious signs	s of rust.				
_	Significance Matrix Historical Aesthetic Social Technology/									
!	mistorical	Aestrietic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic			
Rare				· 🗅	Themes	13 Transport	:			
Repres-	_	_				☐ 15 Utilities ☐ 16 Industry				
entative	×			X		☐ 18 Technology				
						20 Government	Administration			
assembla	age. Th	with their ne item and egree of str	d its ope	ration is easy	years. Th / to interpr	e item is an integ et from its existir	gral part of the forgeing fabric. The item			
Conserv	ation Po	olicy:					· · · · · ·			
The item crane co	is to be lection to	retained in o which it b	its prese elongs.	ent location and The item shou	d preserve ıld remain (d as part of the fo operational.	rge assemblage and			
Policy In	plemer	ntation:				 				
rust is to	be remo	oved or trea	ited. All	external surface	ces are to	g appropriate metl be treated with an situ. Grease bea	hods. All superficial appropriate sealant rings.			
Maintena	ince Sc	hedule								
Inspect fo	or physic	al damage	and dete	erioration ever	y 12 month	ıs and implement ı	repair as necessary.			
Grease b	earings	every 2 yea	ars.							
Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.										
Interpret	ation:	z.nz								
mreibiet	ation.			•	•					
) .			
							1			

14	A.: -		
Item Name:	Item No. 56		
Name Plate:	PTC NSW	FR 159 EVE S/O	
Associated I	tems:		·
Individual		•	
Assemblage	\square	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53	
System		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Collection	☑	Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 159, 161, 198	110, 111, 129,

Description: There are two large oil furnaces in Bay 1 South. Both were for heating large billets which were to be worked under the 4000 weight Steam Hammer or the 2000 weight Steam Hammer. The furnaces are in excess of 2 metres wide, 3 metres long and stand about 2 metres high. Each is fitted with a heavy steel framed, fire-brick lined door which is counter-weighted by a chain to the rear. The door is lifted by a chain driven wheel. Initially it is believed that these furnaces were fired by gas and they were later converted to oil fire. The furnaces are braced with universal section members and in-fill cast-iron and sheet steel sheathing. The interior is lined with fire brick. Air for the furnaces, because of the quantity required is supplied from air compressors.

History: The history of the item is unknown but it is believed that it was installed in this position prior to World War II. However, as with many furnaces, this one may have been re-built on a number of occasions.

Function and Operation: This furnace originally supplied indirect or reflected heat through a reverberatory style roof. The oil is supplied from an elevated external reservoir. The air is now supplied from a specially introduced air compressor.

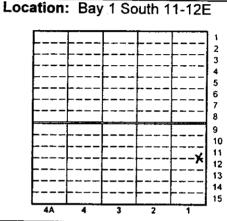
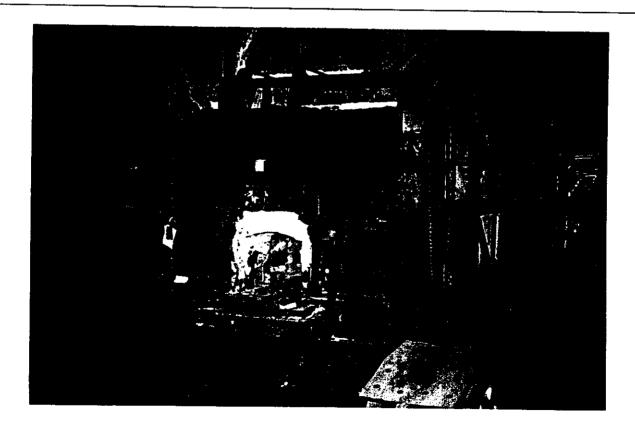


Photo:

FILM No. 95-169-1-23

Photographed and inspected December 1995



1996

Item Na	ıme: Oil	Furnace L	arge				Item No. 56
Conditi	on:		·				
In gener the item	ral, the ite is cleane	em appears ed, service	s to be in d and tes	operable condited.	dition provi	ding power source	s are connected and
The exte	ernal surfa	ace of the	item has	patches of su	perficial rus	st and bare metal.	
Signific	ance Ma	Iniv			04 4 111		
Oiginiic	Historical	Aesthetic	Social	Technology/ Research Potential	Category	storical Themes: Moveable Item	☐ Industrial Relic
Rare					Themes	☐ 13 Transport ☐ 15 Utilities	
Repres- entative	Œ			X		☐ 16 Industry ☐ 18 Technology ☐ 20 Government	
item exh	assembl	age. The th degree o	item and	its operation ral integrity.	ears. The	e item is an integra interpret from its	al part of the steam existing fabric. The
Conserv	ation Po	licy:					
assembl	n is to be age and operationa	furnace co	n its pres ollection a	sent location a and hydraulic	and be pre system to	eserved as part of which it belongs.	the steam hammer The furnace is to
Policy Ir	nplemen	tation:					
The furnace is to remain operational and therefore cannot have its surface treated. Conserve in situ.							
Mainten	ance Sch	iedule					
Inspect for physical damage and deterioration every 12 months and implement repair as necessary.							
Interpre	tation:						
				•			

Item Name: 20CWT Steam Hammer Item No. 57 Name Plate: NSWGR 665 Class HS Davis & Primrose. Leith. 20 CWT HAMMER Associated Items: Individual Assemblage $\sqrt{}$ Steam Hammer 20 CWT 46, 47, 57, 66E, 71 System Ø Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191 Collection Steam Hammer 28, 29, 31, 32, 54, 57 ☑ Steam Hammer Shop. All items in Bay 2N except 38 **Operational Groups** \square

Description: This steam hammer is the second largest to exist in the workshops. It consists of a heavy cast-iron bed and massive curved cast-iron frame which supports the steam chest. The shaft is guided by glands which are attached immediately below the steam head. Steam is admitted on both the up and the down stroke.

History: The item was introduced to the workshops in the 1890s, it is believed, in this position. It has remained here since that time and was in continuous operation for almost 100 years.

Function and Operation: The steam hammer was operated by a blacksmith or foreman blacksmith. The material was held in balanced tongs, supported by one of the Jib Cranes. The length, and hence the weight, of the blow was determined by the amount of arc through which the lever was pushed and the frequency of the blow was determined by the manipulation of the lever. The hammer could be used with a number of dyes, fullers or swages which were attached to the dovetail mount of the hammerhead. Similarly, a number of dies, fullers or swages could be locked in position in the anvil. It should be noted that the anvil and the steam hammer were supported by two completely different sets of foundations.

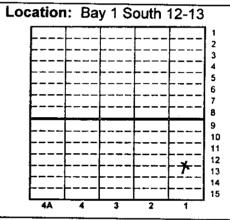
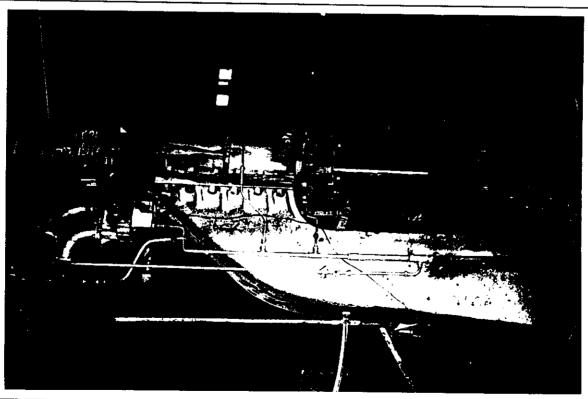


Photo:

FILM No. 95-169-1-24

Photographed and inspected December 1995



Itom N	20 /	CWT Stear					13	
ILCIN IN	airie. 20 t	CVVI Steal	m Hamm	er			Item No.	57
Condit	Condition:							
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal.								
Signific	cance Ma	trix		· vi ai	State His	storical Themes:		
	Historical	Aesthetic	Social	Technology/ Research Potential	Category		Industrial Re	elic
Rare	×	×		×	Themes	13 Transport		
Repres-						☐ 15 Utilities ☐ 16 Industry		
entative	×			×		☐ 18 Technology		
						20 Government Admir	nistration	
Statem	ent of Sig	nificance			<u> </u>			
The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 90 years. The item is an integral part of the large steam system. The item is a large, rare, industrial piece exhibiting massive cast-iron construction and which had general engineering application. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item has research and education potential for developing an understanding of early engineering practice. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.								
Conser	vation Po	olicy:						· ·
The item is to retained in its present location and be preserved as part of the 20CWT steam hammer assemblage, the steam hammer collection and the steam system to which it belongs.								
Policy I	mplemen	itation:				<u> </u>		
The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or pelycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.								
Maintenance Schedule								
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.								
Interpretation:								
l								

1996

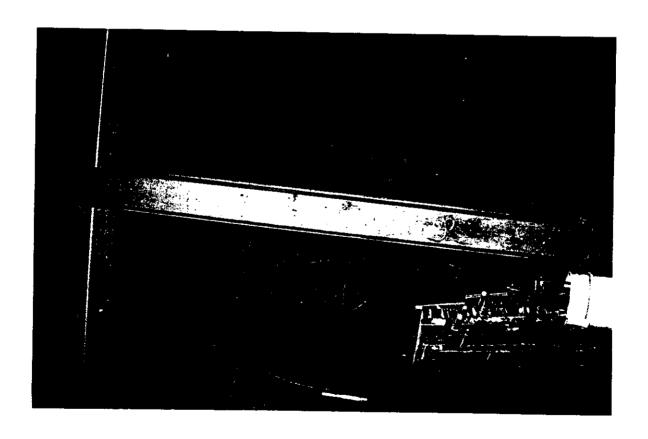
13

Item Name: 7 CWT Crane (Braced off Column) Item No. 58 Name Plate: L.C. -500 S.W.L. 7 CWT. CLASS 3 Associated Items: Individual Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A Assemblage \square System Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195 Collection M Description: This small crane consists of a kingpost made of C-Section steel and a Jib of universal section. The jib is faced both front and back and the kingpost is faced from the walls. History: The history of the item is unknown but it is believed to have been erected in the workshop after World War II. Function and Operation: The Jib Crane was operated Location: Bay 1 South 14E manually and was used for taking heated items from the furnaces to the 2000 weight steam hammer or the electropneumatic. 10

Photo:

FILM No. 95-169-1-25

Photographed and inspected December 1995



1996

Item Na	me: 7 C	WT Crane	(Braced	Off Column)			Item No. 58
Conditio	n:	·					
The item	is in god	od structur	al repair	and has no ob	vious sign:	s of rust.	
Significa	ance Ma Historical	trix Aesthetic	Social	Technology/ Research Potential	State His	storical Themes:	☐ Industrial Relic
Rare					Themes	☐ 13 Transport☐ 15 Utilities	
Repres-						☐ 16 Industry	
entative	×			×		☐ 18 Technology	•
						20 Government	Administration
assembla	age. Th		d its ope	eration is eas	•		ral part of the forge ng fabric. The item
	is to ret	•	-	location and b	e preserve	ed as part of the for	rge assemblage and
rust is to	nal surfa be remo	ces are to	ated. All	external surfa	ices are to	* '''	nods. All superficial appropriate sealant n situ.
Mainten Inspect f			e and det	erioration eve	ry 12 mont	hs and implement r	repair as necessary.
Grease bearings every 12 months.							
Inspect a impleme			s for rust	every 5 years	. Where n	ecessary, treat as r	recommended in the
Interpre	tation:						
							,

Item Name:	Blacksmit	ths Forge	Item No.	59
Name Plate:	FB9		<u> </u>	
Associated It	ems:			
Individual				
Assemblage	\square	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A		
System		, , , , , , , , , , , , , , , , , , , ,		
Collection		Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 159, 161, 198	110, 111,	129,
Description:	This forg	ge is similar to item Number 44. It is no longer in use and	shows si	gn of

Description: This forge is similar to item Number 44. It is no longer in use and shows sign of advanced deterioration. The forge, like item 49, has a sheet metal and plate cowling rather than the typical cast-iron railway cowling and its water cooled tuyere has been removed.

History: The history of the item is unknown.

Function and Operation: The item is no longer operational but it does indicate the number of forges which were in use in this part of the workshop.

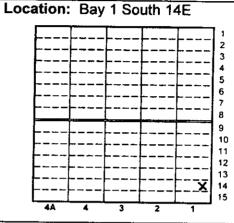


Photo:

FILM No. 95-169-1-26

Photographed and inspected December 1995



EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY CONSERVATION 1996 Item Name: Forge Item No. 59 Condition: The item is in good structural repair and has no obvious signs of rust. Significance Matrix State Historical Themes: Historical Aesthetic Social Technology/ ☐ Moveable Item Research Category ☐ Industrial Relic Potential Rare ☐ 13 Transport **Themes** ☐ 15 Utilities Repres-☐ 16 Industry entative × ☐ 18 Technology 20 Government Administration Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 30 years. The item is an integral part of the forge assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity. **Conservation Policy:** The item is to retained in its present location and be preserved as part of the forge assemblage and crane collection to which it belongs. **Policy Implementation:** A heavily rusted surface should be cleaned with abrasive blasting using a limestone or similar abrasive or steel wire brushing. Remnant rust should be treated with an inhibitor and finally coated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve. May reposition in same bay. Maintenance Schedule inspect for physical damage and deterioration every 12 months and implement repair as necessary. Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

 Item Name: 700 Weight CWT Electro-Pneumatic Hammer
 Item No. 60

 Name Plate: PTC NSW HH1 EVE S/O - B & S MASSEY LTD. MANCHESTER. ENGLAND. 7 CWT PNEUMATIC HAMMER.

 Associated Items:

 Individual
 □

 Assemblage
 ☑

 Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A

 System
 □

 Collection
 ☑

 Electropneumatic hammers 60, 98, 96

Description: This Electro-Pneumatic Hammer operates on the same principle as a steam engine. The power pack for the hammer though is an air compressor which is an integral part of the hammer. A stand-alone electric motor powers the single piston air compressor which then supplies the head of the hammer with compressed air. Basically it stands in excess of 2 metres high, is about 2.5 metres long and about 1 metre wide at the base. It has the typical C-shaped heavy castiron construction of steam for electro-pneumatic hammers.

History: The history of the item is unknown but it was installed in this location of the workshops prior to World War II.

Function and Operation: The hammer was used for a wide section of general purpose forging. The head will take a series of flatters, fullers and swages as will the anvil. The operating lever determines both the repetity of the stroke and the weight of each blow. The material being forged is held by tongs which are supported by a chain loop attached to the Jib Crane.

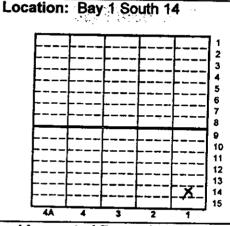
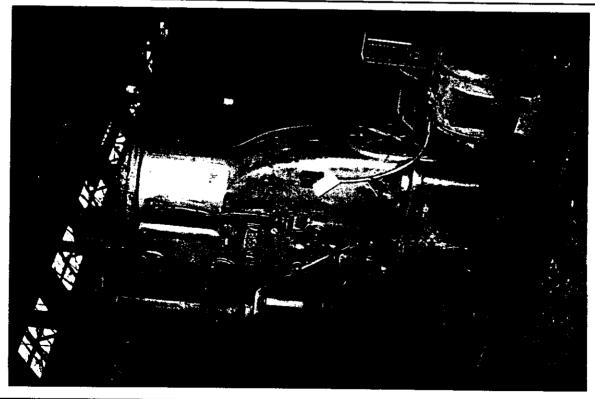


Photo:

FILM No. 95-169-1-27

Photographed and inspected December 1995



1996

item Na	me: B &	S Massey	7 CWT	Electro-Pneun	natic Hamr	ner	Item No. 60
Condition	on:						
The item	n is in go	od/exceller	nt operati	ng condition.			
Signific	ance Ma Historical	trix Aesthetic	Social	Technology/ Research Potential	State Historical Themes: Category		
Rare	Ø	Ø	0	Ø	Themes	☐ 13 Transport☐ 15 Utilities	
Repres- entative	Ø	۵		Ø		☐ 16 Industry ☐ 18 Technology ☐ 20 Government	Administration
Stateme	nt of Sig	jnificance	-	 			
The item operation	n was an	integral p r 50 years.	art of the	Eveleigh Lo	comotive V	Vorkshops being a	ssociated with their
The item	is an int	egral part o	of the ele	ctro-pneumati	c assembla	age. ⁻	
The item	and its o	peration is	easy to	interpret from	its existing	ı fabric.	
				uctural integri	_		
Conserv	ation Po	olicy:				· · · · · · · · · · · · · · · · · · ·	- v
The item	is to rem	nain operat	ional. Co	onserve in situ			
Policy In	nplemen	tation:	,				
The item	is to rem	nain operat	ional. Co	onserve in situ			
Maintena	ance Sci	nedule					
Inspect for as neces		al damage	and dete	erioration ever	y 12 mont	hs and implement	maintenance repair
					-		
Interpret	ation:			<u> </u>			

Item Name:Rootes No. 6 Blower 1910 PatternItem No. 61Name Plate:No.752 NSWGR Class BRTHWAITES BROS LTD. BRADFORD YORKS. ROOTES BLOWER No.6Associated Items:Individual□Assemblage□Steam 1, 2, 3, 4, 28, 29, 31, 32, 41, 42, 61, 54, 57, 188, 189, 190, 191Collection☑Blowers 41, 42, 61

Description: The Rootes Blower is a single piston steam engine with twin shafts operating a counter-rotating vane air pump. The Blower supplies high volume low pressure air to the Blacksmiths Forges. The power pack is a simple vertical steam cylinder with a single shaft which is connected to a cross-head which has twin crank shafts. Each of the crank shafts is fitted to a driving wheel, direct coupled to a vane shaft.

History: The Rootes Blower was installed in 1911 to supply low pressure air to the Blacksmiths Forges. It is believed it was located in this position and has remained here since installation.

Function and Operation: The blowers supply air at low pressure compared to the air compressors which supply high pressure air. High pressure air is unsuitable for forgers as the amount of air going through is disruptive. When operating, the blower was turned on by opening the steam valve. The air was supplied to the furnaces or directed to exhaust.

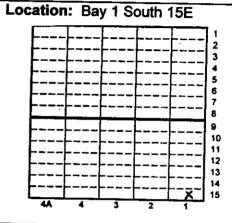
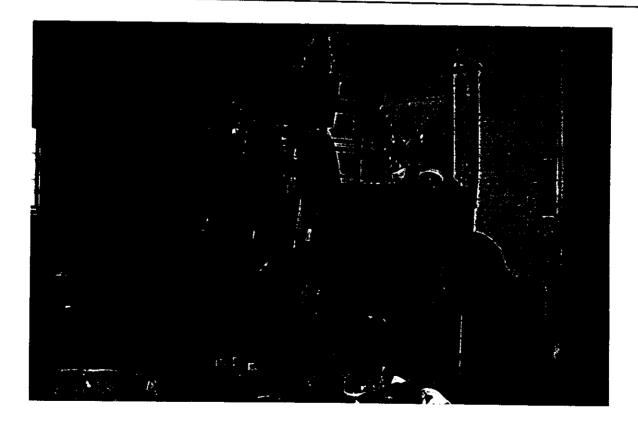


Photo: FILM No. 95-169-1-28

Photographed and inspected December 1995



Itom No.	Doole							30
item Na	me: Rootes	No. 6	Blower 19	10 Pattern			Item No.	61
Conditio	on:							
In genera	al, the item a	ppear	s to be in	operable cond	dition prov	iding power sources are	connected	d and
i nie nem	is cleaned, s	service	a and test	ed. The exte	mai surfac	e of the item has natch	ac of cupa	-ficial
rust and	bare metal.	The	condition	of the powe	r source i	s unknown and the po	wer course	iliciai hac
probably	been discor	necte	d.	•		- and the po	wei source	rias
	nce Matrix				State His	storical Themes:		
,	Historical Ae	sthetic	Social	Technology/ Research		D.	_	
				Potential	Category	☐ Moveable Item ☐	Industrial Re	elic
Rare	32	ヌ		×	Themes	☐ 13 Transport		
						15 Utilities		
Repres-	F-0	_	_			☐ 16 Industry		
entative	E			E		☐ 18 Technology		
						20 Government Admir	ietration	
Statemer	nt of Signifi	00000						
ľ	=							
The item	was an inte	egral p	art of the	Eveleigh Loc	comotive V	Vorkshops being assoc	iated with	their
operation	TOT OVER /5	years.	The item	i is an integra	l part of th	e steam system. The i	tem renres	ents
pormer m	anutacturing	g tech	nologies	now rarely e	evident in	operating workshops	The iter	m ie
ımpressiv	e in size and	form	and exhib	its a unity in i	ts design a	and detail. The item ha	s research	and
education	potential fo	r deve	loping an	understanding	g of early e	engineering practice.	•	
Concern	-tion Delia	- T-L						
the blows	auon Poncy	: Ine	nem is to	be retained	in its pres	ent location and prese	rved as pa	rt of
cleaned	serviced on	and St	eam syste	em to which it	belongs.	The item is to be pres	erved by b	eing
given belo	Serviced an	u man	itained at	cording to ti	ne impiem	entation and maintena	nce sched	ules
given bei	J VV .							
Policy Im	plementation	on:						
The mach	nine is to be	strippe	d. all cylin	ders cleaned	and dried	, all bearings and gland	s renacker	1 all
internal ba	are metal su	ırfaces	are to be	dried and gr	eased to r	prevent rust. All externa	al surfaces	are
to be clea	aned and de	grease	ed using a	ppropriate m	ethods. A	All superficial rust is to	be remove	d or
treated.	All external :	surface	es are to	be treated wi	th an app	ropriate sealant such a	s Shell FN	ISIS
fluid or po	olycrystalline	wax.	All pipes	are to be dis	connected	l, cleaned, dried and tr	eated with	rust
innibitor.	They may to	nen be	reconnec	ted. All oper	ating surfa	aces exhibiting a norma	lly bright fi	nish l
should be	suitably pol	ished	and coate	d with an ap	propriate s	ealant such as Shell E	NSIS fluid	or a
polycrysta	illine wax. C	onser	ve in situ.		-			Ī
88-1-4								
Maintena	nce Schedu	ile						
Incode of	l avdamat	حگس	fan		L			
the implem	ı external su	ITACES	TOF rust e	very 12 mont	ns. Where	necessary, coat as re	commende	ed in
use impler	nentation se	CTION.	⊏very 5 y	ears internal	surfaces s	should be inspected for	rust. Any	rust
UI UXIUXIII	un product f	nust D	e treated	suitably by b	eing remo	ved and coated with a	n inhibitor	and
necessor	· All aparati	ing our	ıı damage	and detenor	ation ever	y 12 months and imple	ment repai	r as
costed with	h an anaras	ny sul riste e	idues exn	iviting a norm	ially dright	finish should be suitable	y polished	and
VOGICU WII	an approp	ייומנס 5	vaiai il 5UC	ai as oneii Er	Diuit Cier	or a polycrystalline wax.		j
Interpreta	ition:							<u> </u>
								1
								1

Item Name:	Item No.62a-e		
Name Plate:	N/A		
Associated It	ems:		
Individual			
Assemblage	Ø	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A Electropneumatic 2CWT (south) 62A, 98, 99	
System		1	
Collection		Hand tools/ Racks 34A-L, 36A-D, 62A-E, 66A-H, 71, 10	0A-D. 102A-D
December	The		

Description: There are three rails which have intermediate support and run between the single columns between Bays 1 and 2 South. The top rail has a series of hooks or brackets on it which holds the swage sets or the spring swages and also any item which has had an eye formed in the end of the handle. The middle rail holds generally sets of tongs and hammers and steel handled hot sets. There are over 300 tools on these racks which all illustrate the way in which the workshop is operated.

History: The history of the items is unknown but some pieces appear to be of a great age.

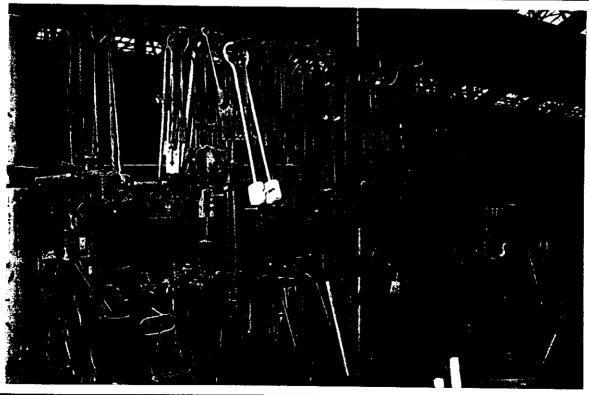
Function and Operation: The items were all used with the various steam and electro-pneumatic hammers as well as hand forging operations.

ocation: Bay 1 South 10-14W

Photo:

FILM No. 95-169-1-29

Photographed and inspected December 1995



1996

Item Na	me: To	ol Racks Be	tween C	olumns			Item No.62a-e			
Condition	on:				 					
The iten	The item is in good/excellent operating condition.									
	The external surface of the item has patches of superficial rust and bare metal.									
Signific	ance Ma	itrix Aesthetic	Social	Technology/	State His	storical Themes:				
			300.	Research Potential	Category	☐ Moveable Item	☐ Industrial Relic			
Rare					Themes	13 Transport				
Repres-						☐ 15 Utilities ☐ 16 Industry				
entative			Q			☐ 18 Technology	1			
						20 Government A	dministration			
heing as hammer evident	Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.									
Conserv	ration Po	olicy:				, , <u>, , , , , , , , , , , , , , , , , </u>				
The item assemble	n is to re age, and	etained in i hand tool c	ts prese collection	nt location ar s.	nd be pres	served as part of t	he steam hammer			
Policy In	npleme	ntation:			<u> </u>		···			
external is to be	All items which are not being used in the present operations in Bays 1 & 2 South Should have all external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated with a rust converter. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ.									
Mainten	ance Sc	hedule					· · · · · · · · · · · · · · · · · · ·			
Inspect a the imple	Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.									
Interpret	tation:									
							İ			
							1			

tem Nan	H LOCOMOTIVE WOIne: Tool Rack - Belongs	to Cuido O
		item No.
Name Pla	ate:	
Ssociat	ed Items:	
ndividual		
Assembla	ge 🗅	
System		
ollection	_	
)escripti	on: No Description Req	uired.
		•
listory:		
-		
unction	and Operation:	
	una Operation.	Location: (O = original X = relocated)
	•	
noto:	FILM No.	Photographed and inspected December 1995
	s.	
	•	

1996

		IIEM - be	elongs to	Guido Gouve	rnor		Item No. 63
Condit	ion:	-	 .				
Signifi	cance Mat	teiv .	-		104 4 111		
Oigiiiii	Historical	Aesthetic	Social	Technology/ Research	State His	storical Themes: Moveable Item	☐ Industrial Relic
Rare				Potential	Themes	☐ 13 Transport	
Repres-	_					☐ 15 Utilities ☐ 16 Industry	
entative						18 Technology	
Statem	ant of Sig	mificanas			<u> </u>	20 Government	Administration
JIAICIII	ent of Sig	mincance	!				
Conser	vation Po	licy:		<u></u> .			
Policy I	mplement	tation:				· · · · · · · · · · · · · · · · · · ·	
							
viainten	ance Sch	eaule					
						*	
nterpre	tation:		, <u>, , , , , , , , , , , , , , , , , , </u>		,_ ,		
				•			

The state of the s		30
Item Name: Anvil	Item No.	64
Name Plate: N/A	<u> </u>	
Associated Items:		
Individual 🗹		
Assemblage		
System		
Collection		
Description: This heavy blacksmiths anvil is located on a wooden block set into		
stand.	a fixed cast	t-iron
History The List		
History: The history is unknown.	·	
Function and Operation: The anvil served as a Location: Bay 1 South		
blacksmiths anvil for performing small generally non-	i 14-15W	
repetitive jobs.	1	
	2	
	4	
│ ┣╼╼┼╼╼┼ ╼╾┾╼	5	
	7	
	8 9	
	10	
│ ├ ╼╼┾╌╼┼╌╾	11 12	
	13	
 	X 14	
4A 4 3 2	1	
Photo: FILM No. 95-169-1-31 Photographed and inspected December	er 1995	
		Ï
		I
		ŀ
64		
		l

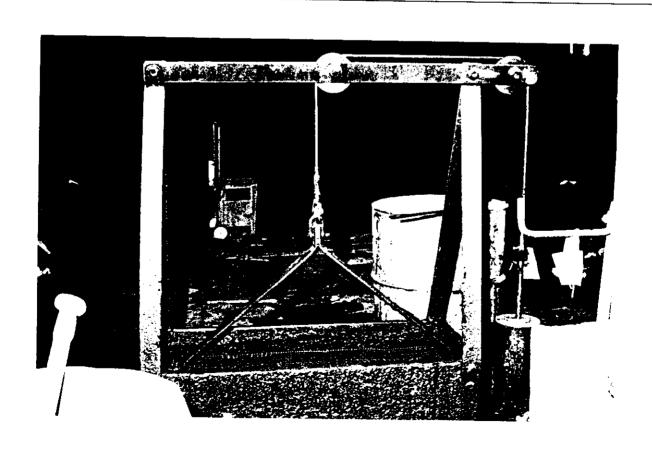
	3a	1
		•

1996

item N	ame: Anv	/il					Item No. 64	
Condit	ion:							
The iter	m is in god	od/exceller	nt operati	ng condition.				
Signific	cance Ma	trix		<u>.</u>	State His	storical Themes:		
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	_	Industrial Relic	
Rare					Themes	☐ 13 Transport☐ 15 Utilities		
Repres- entative	X			X		☐ 16 Industry ☐ 18 Technology ☐ 20 Government Adm	inistration	
interpre	Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 90 years. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity. The item is an integral part of the forge assemblage.							
Conser	vation Po	licy:						
		ain operat	ional.					
Policy I	mplemen	tation:						
Conserv	e. May re	eposition ir	i same bi	ay.				
Mainten	ance Sch	edule		713 HAR		· · · · · · · · · · · · · · · · · · ·		
Inspect	Inspect for physical damage and deterioration every 12 months and implement repair as necessary.							
Interpre	tation:				···			
							1	

EVELEIGH LOCOMOTIVE WORKS

	ACHINERY CONSERVATION	1996
Item Name: Quenching Bath		Item No. 65
Name Plate: N/A		
Associated Items:		
Individual 🗹		
Assemblage		
System		
Collection		
Description: This small cast-iron bath with a quenching items as they came from the forge. The bath and were then extracted by further weighting	he items were generally through dis-	التناج المستراقوه
History: The history of the item is unknown.		·
Function and Operation: As above.	Location: Bay 1 South	14W
		1
		² ₃
		5 6
		⁷ 8
		9
	 	10 11
		12
	 	× 13
	4A 4 3 2	15
Photo: FILM No. 95-169-1-32 Photo	ographed and inspected December	·



Item Na	me: Que	enching wi	th Counte	er-Weighted B	asket	*****	Item No. 65
Conditio	n:	<u>-</u>				·	
The item	is in goo	od/exceller	nt operati	ng condition.			
	nce Mat	rix Aesthetic	Social	Tachnota	State His	storical Themes:	
	i ii 3toi i Çai	Aestrietic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare					Themes	13 Transport	
Repres-					İ	☐ 15 Utilities☐ 16 Industry	
entative	×			×		☐ 18 Technology	
						20 Government A	dministration
tateme	nt of Sig	nificance					
xisting f	i for ove abric. Th assembl	ne item exl	er of yeanibits a h	ars. The iten igh degree of	n and its o structural i	operation is easy to ntegrity. The item is	o interpret from its s an integral part of
onserv	ation Po	licy:					
he item	is to rem	ain operat	ional.				
		·					
olicy In	plemen	tation:					
onserve	. Mav re	eposition in	same h	av			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		шу.			
laintena	nce Sch	edule					· · · · · · · · · · · · · · · · · · ·
espect fo	nr nhysics	al damage	and deta	arioration ever	v 12 month	ns and implement re	anair as nacessary
юроссте	or priyotoe	ar darnage	and dete	SHOTALION EVEL	y 12 111011ti	is and implement re	pair as riecessary.
							•
nterpret	ation:	<u></u>					
						•	

Item Name:	Racks of	Assorted Tools	Item No.66a-h
Name Plate:	N/A		
Associated It	ems:		
Individual			
Assemblage			
System		Electropneumatic 2CWT (south) 62A, 98, 99	
Collection		Hand tools/ Racks 34A-L, 36A-D, 62A-E, 66/	A-H, 71, 100A-D, 102A-D
piaced trilougi	in conjun	re a series of racks made variously from angled s bay. These racks support a variety of tongs, fulle ction with either the electro-pneumatic hammers	steel rod and bar which are
History: The	history of	f the items is unknown.	

Function and Operation: The items were all used by Location: Bay 1South 10W-15E blacksmiths in forging operations.

Photo:

FILM No. 95-169-1-33

Photographed and inspected December 1995



Item Na	me: Ra	cks of Asso	orted Too	ols			Item No.66a-h
Conditi	on:						
				ng condition.	manafiaiat		-
THE EXT	erriai Suria	ace or the r	tem nas	patches of su	perficial rus	st and bare metal.	
Signific	ance Mat	t rix Aesthetic	Social	Technology/	State His	storical Themes:	
			Social	Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare					Themes	☐ 13 Transport☐ 15 Utilities	
Repres-						15 Odinies	
entative	LI.					☐ 18 Technology	
						20 Government A	Administration omotive Workshops
hammer evident manufact fabric.	and olive in operate cture of to vation Po	er systems ting works ols and ma licy:	s. The it hops. achines.	em represent The item evic The item and	s former n dences the its operati	nanufacturing techre versatility of the on is easy to interp	al part of the steam nologies now rarely workshops in the pret from its existing pneumatic hammer
assemb	age, and	hand tool o			eserved as	part of the electro	pneumatic nammer
All items external removed Shell EN	surfaces for treate ISIS fluid	re not bein cleaned a	nd degre ternal su stalline w	eased using a rfaces are to ax.	ppropriate	methods. All supe	uth should have all erficial rust is to be te sealant such as
Mainten	ance Sch	nedule	·				
	Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.						
Interpre	tation:						
							ļ
							Ì

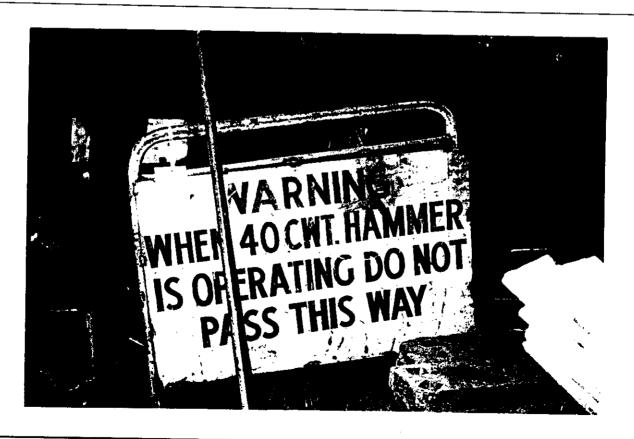
EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY C

			VI CONSERVATION	1996
Item Name: V	Varning (Sign for 40CWT Steam Hammer		Item No. 67
Name Plate:				: L
Associated Ite	ems:			
Individual				
Assemblage	\square	Steam Hammer 40 CWT 47, 50	3 54 56 66BCD 70 53	
System			o, o+, oo, oobob, ro, oo	
Collection				
History: The used, would ap	history o	el sheet sign states "Warning Who meant as a safety device to prevent ghear when it was operating. of the item is unknown, but the sign open o older than 20 years.	ent the area around the s	steam hammer
south of the ha	mmer ar	on: One sign was placed to the nd one to the north of the hammer ugh the steam hammer area.	Location: Bay 1 South	13-14E

Photo:

FILM No. 95-169-1-34

Photographed and inspected December 1995

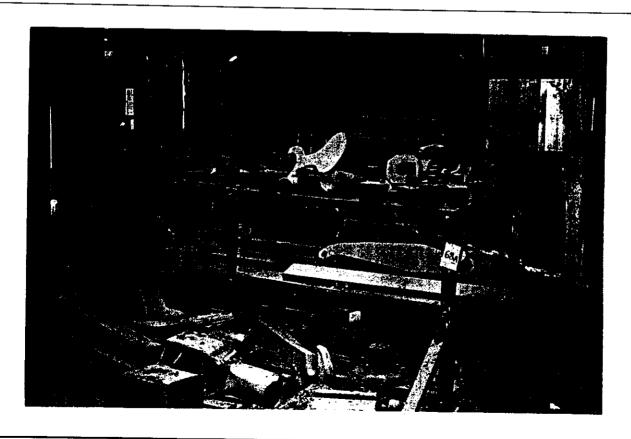


1996

Conditi item ext	i on : The	external s					
ileili exi	Hibits near		surface o	f the item has	patches o	of superficial rust and b	l pare metal. The
		vy rust in p	places.				
Signific	ance Ma	triv			C4-4- 11:		
O.g.iiiic	Historical	Aesthetic	Social	Technology/		storical Themes:	
				Research Potential	Category	☐ Moveable Item ☐	Industrial Relic
Rare	×			×	Themes	13 Transport	
Repres-						15 Utilities	
entative				×		☐ 16 Industry ☐ 18 Technology	
						20 Government Admi	nistration
Stateme	ent of Sig	nificance	<u></u>	· · · · · · · · · · · · · · · · · · ·			
researcr	n and edu	ication po	tential fo	em is an integ or developing a nature of past	an underst	the Davy assemblage tanding of early engine tices.	. The item has eering practice.
Conserv	/ation Po	licy:					
The iter impleme	n is to l ntation an	be preser nd mainten	ved by ance sch	being cleaned nedules given I	d, service below.	d and maintained ac	cording to the
Conserv	e. May re	position in	same b	ay.			
Policy In	nplement	tation:					
All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. The rust areas are to be removed by gentle brushing, treated with inhibitor and the whole surface waxed. Conserve. May reposition in same bay.							opriate sealant
Maintena	ance Sch	edule					
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
nterpret	tation:	<u></u>					
			•				

THE THE PROPERTY OF THE PROPER	RY CONSERVATION	1996
Item Name: Stands of Assorted Dies		Item No.68a-e
Name Plate: N/A		
Associated Items:		
Individual		
Assemblage		
System		
Collection		
Description: There are five stands made variously of stands which support a variety of dies and work in progress. A indicate they have not been used recently. The dies we hammers or the hydraulic presses. The partially fitted pie steam hammer or Davy and were brought here for finishing History: The history of the items is unknown.	All of the pieces show sig ere used in conjunction to ces of work wore possible	ins of rust and
Function and Operation: The function and operation is not fully understood.	Location: Bay 1 South	9W-12E 1 2 3 4 5 6 7 8 X.—X 9 10 X.—11X 1314

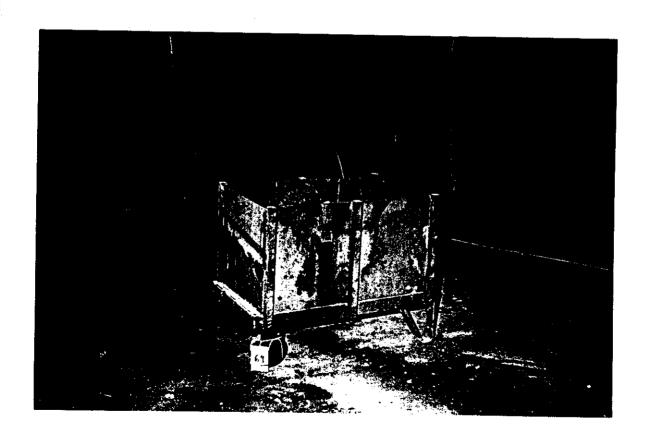
Photo: FILM No. 95-169-1-35 Photographed and inspected December 1995



1996

Item Na	me: Sta	nds of Ass	orted Die	es			Item No.68a-e
Condition items ex	on: The hibit hear	external s vy rust in p	urface of	the items ha	s patches	of superficial rust a	and bare metal. The
Significa	ance Ma	trix			State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	×			. 🔀	Themes	13 Transport	
Repres-						☐ 15 Utilities ☐ 16 Industry	
entative				×		☐ 18 Technology	
						20 Government	Administration
Stateme	nt of Sig	nificance	:	·	<u></u>		
practice.	The iten	ns will yiek	d informa	ition on the na	ture of pas	t work practices.	f early engineering
Conserv	ation Po	licy:					
The item implement	is are to ntation ar	be present mainten	erved by	being clean nedules given	ed, servico below.	ed and maintaine	d according to the
Conserve	e. May re	eposition in	same b	ay.			
Policy In	nplemen	tation:					
All extern rust is to such as S	Policy Implementation: All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve. May reposition in same bay.						
Maintena	nce Sch	redule		<u></u>			
Inspect a the imple	nspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.						
Interpret	ation:	·					
				•			1

		1996
Item Name: Metal Trolley Bin		item No. 69
Name Plate: N/A		
Associated Items:		
Individual [전		
Assemblage 🔲		
System		
Collection		
Description: This small bin, which measures about 800 with two steel legs at the rear and two wheels at the from blacksmiths operating areas for the collection of scrap. History: Unknown.	mm by 400mm by 500m nt. It was basically for r	m high is fitted noving close to
Function and Operation: N/A		
	Location: Bay 1 South	1 2 3 4 5 5 6 7 7 8 8 9 10 11 12 12 13 14 15
Photo: FILM No. 95-169-2-1 Photographed	and inspected December	er 1995



Item Na	ame: Met	al Trolley I	3in				Item No. 69		
Condit	ion:		·	<u></u>	<u> </u>				
1	The item is in good/excellent operating condition.								
i ne ext	The external surface of the item has patches of superficial rust and bare metal.								
Signific	Significance Matrix State Historical Themes:								
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic		
Rare					Themes	13 Transport			
Repres-						15 Utilities			
entative						☐ 16 industry ☐ 18 Technology			
						20 Government	Administration		
Statem	ont of Cia	-ifi	Th = 31=		L		l l		
being a hamme in opera	Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer assemblage. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.								
The ite	m is to r	•	its pres	sent bay and s.	be prese	erved as part of t	the steam hammer		
Policy I	mplemen	tation:							
external removed Shell EN	surfaces d or treate NSIS fluid	cleaned a	nd degre ternal substalline wa	eased using a rfaces are to ax.	ppropriate	methods. All sup	outh should have all perficial rust is to be ate sealant such as		
			·	•					
Mainter	nance Sch	edule							
	Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.								
Interpre	tation:								
			•						
							1		
)		

Item Name: V	Item Name: Warning Sign for 40CWT Steam Hammer						
Name Plate:	N/A						
Associated Ite	ems:						
Individual							
Assemblage	\square	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70,	53				
System		,,,, - -, - - -, - - -,	, 00				
Collection							
hass rus May	. It was	eel sheet sign states "Warning When 40CWT Hammer s meant as a safety device to prevent the area around ughfare when it was operating.	is operating do not the steam hammer				

History: The history of the item is unknown but the sign, because of its condition and the font used, would appear to be no older than 20 years.

Function and Operation: One sign was placed to the south of the hammer and one to the north of the hammer to prevent passage through the steam hammer area.

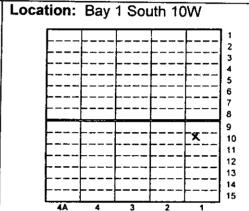


Photo:

FILM No. 95-169-2-2

Photographed and inspected December 1995



1996

Item Na	me: Wa	rning Sign	for 40 C	WT Steam Ha	mmer		Item No. 70
Condition item exh	on: The libits hear	external s vy rust in p	urface o	f the item has	patches o	f superficial rust a	and bare metal. The
Signific	ance Ma	triv	 		Ctoto Illia	tada I Th	
Olginilo	Historical	Aesthetic	Social	Technology/ Research	Category	storical Themes: Moveable Item	☐ Industrial Relic
Rare	×			Potential · 🔀	Themes	13 Transport	
Repres- entative				m		☐ 15 Utilities ☐ 16 Industry	
entauve	u	u		X		☐ 18 Technology	
Stateme	nt of Sig	nificance	•			20 Government	Administration
research	and edu	ucation po	tential fo	r developing nature of pasi	an unders	tanding of early e	lage. The item has ngineering practice.
Conserv	ation Po	licy:	<u></u>	····	· · · · · · · · · · · · · · · · · · ·		
The iten implement	n is to ntation ar	be preser nd mainten	ved by ance sch	being cleane nedules given	d, service below.	d and maintained	d according to the
Conserve	e. May re	eposition ir	same b	ау.			
Policy In	nplemen	tation:					
rust is to	be remo	ved or trea	ited. All				ods. All superficial appropriate sealant
Conserve	e. May re	eposition in	same b	ay.			
Maintena	ance Sch	nedule		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
Interpret	ation:						
							1

Item Name: Assorted Tools	Item No.	71
Name Plate: N/A		• • •
Name Flate: N/A		
Associated Items:		
Individual 🗀		
Assemblage ☑ Steam Hamn	mer 20 CWT 46, 47, 57, 66E, 71	
System	, , , , , , , , , , , , , , , , , , , ,	
Collection		
Description: This series of tools co	onsists of fullers, flatters and rods which were us	ed i
conjunction with the steam hammer or el	electro-pneumatic hammers.	cu i
listory: Unknown		
Function and Operations N/A		
unction and Operation: N/A	Location: Bay 1 South 10E	
		1
		2 3
		4
		5 6
		7 8
		9
	h	10
		11 12
		13 14
		15
	4A 4 3 2 1	
hoto: FILM No. 95-169-2-3	Photographed and inspected December 1995	
	<u> </u>	
		•



EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY CONSERVATION 1996 Item Name: Assorted Tools Item No. 71 Condition: The item is in good/excellent operating condition. The external surface of the item has patches of superficial rust and bare metal. Significance Matrix State Historical Themes: Historical Aesthetic Social Technology/ ☐ Industrial Relic Research Category Moveable Item Potential ☐ 13 Transport Rare \Box Themes ☐ 15 Utilities Repres-☐ 16 Industry entative ☐ 18 Technology ☐ 20 Government Administration Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely

evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present bay and be preserved as part of the steam hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

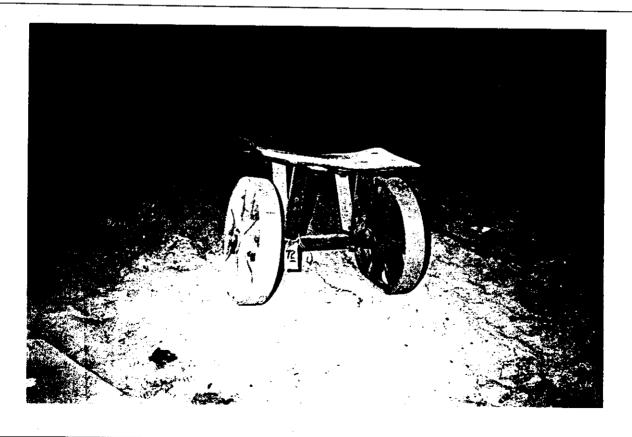
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

		WA WORKSHOPS MA	CHINERY COM	19E	RVATION	19	996
Item Name:	Hot Meta	l Trolley			· · · · · · · · · · · · · · · · · · ·	Item No	. 72
Name Plate:	N/A					<u> </u>	
Associated It	ems:						
Individual							
Assemblage	\square	Steam Hammer 40 CW	/T 47 53 54 56	66	RCD 70 53		
System			, 55, 57, 50	, 00	DOD, 70, 55		
Collection							
furnace and al History: The War II.	d. The flowed the	t metal trolley consists of lted. The brackets support trolley was used for receiving air manipulation as they were f the item is unknown but it	a flat plate stee ng hot metal bille re being attached	top ts as to b	to which a 2 s they were to nolders or ba	.5 metre herought fro lanced tor	nandle om the ngs.
Function and	Operation	on: As above.	Locati	on:	Bay 1 South	11-12E	
						1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 12 12 12 12 12 12 12 12 12 12 12	i

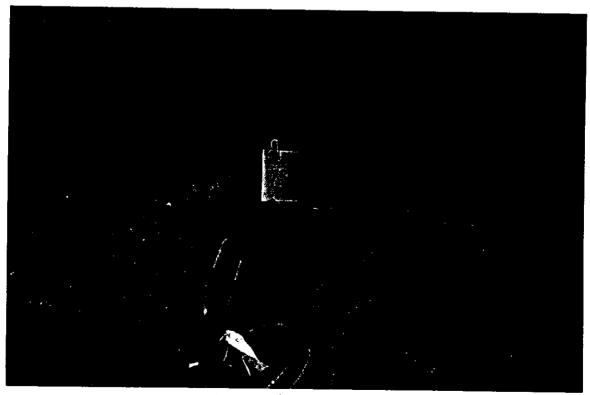
Photo: FILM No. 95-169-2-4

Photographed and inspected December 1995



Item Na	ame: Ho	t Metal Tro	lley			*···	Item No. 72	
Condit	ion:	-						
				ng condition.				
ine ext	ernai sum	ace of the	tem nas	patches of su	perficial rui	st and bare metal.		
Signific	cance Ma	trix Aesthetic	Social	Technology/	State His	storical Themes:		
				Research Potential	Category	☐ Moveable Item	☐ Industrial Relic	
Rare	Ø				Themes	☐ 13 Transport ☐ 15 Utilities		
Repres- entative	\mathbf{Z}					☐ 16 Industry		
entauve	ш	_		_		☐ 18 Technology ☐ 20 Government Ac	dministration	
Statem	ent of Sig	nificance	: The ite	m was an inte	egral part o			
hamme evident	Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.							
Conser	vation Po	licy:	•					
		etained in hand tool o			nd be pres	served as part of the	ne steam hammer	
Policy I	mplemen	tation:						
All items external removes	s which as surfaces d or treate	re not bein cleaned a	nd degre ternal su	eased using a rfaces are to	рргоргіate	in Bays 1 & 2 Sou methods. All supe with an appropriat	rficial rust is to be	
Conserv	e. May re	eposition in	same b	ay.				
Mainter	ance Sch	redule		· · · · · · · · · · · · · · · · · · ·				
	Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
Interpre	tation:							
							ļ	
							:	

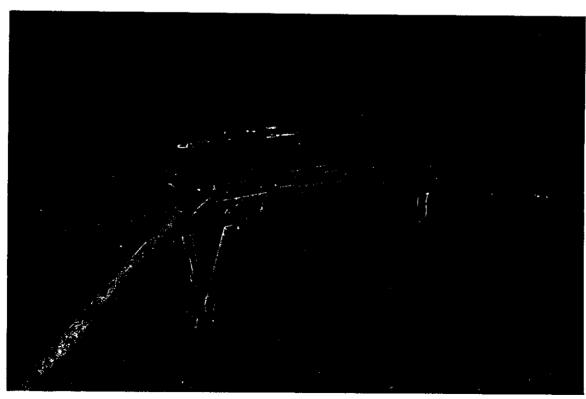
Washington Education Tre Workshop's Machinery Conservation	ON 1996
Item Name: Crane Tong Support	Item No. 73
Name Plate: N/A	
Associated Items: Individual Assemblage Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 76 System Collection Description: This Crane Tong Support consists of a roller, which ran of wishbone, which holds a trunnion, to which a threaded shaft and wheel is at lowering the chain which held a set of balanced tongs. History: The history of the item is unknown but is probably of the same age ib cranes. Function and Operation: The balanced tongs which held the billet for manipulation beneath the electropherumatic or steam hammers was passed through the chain. In this way the billet could be very easily manipulated. The tong support also allowed the transfer of the hot item back to the furnace.	as the earliest of the
hoto: FILM No. 95-169-2-5 Photographed and inspected Dec	8 9 10 11 12 13 14 15 2 1 1



GODDEN MACKAY PTY LTD, 78 GEORGE ST, REDFERN NSW 2016 PH: (02) 319 4811

item Na	ame: Cra	ane Tong S	Support		· · · · · · · · · · · · · · · · · · ·		Item No. 73
Condition:							
The item is in good/excellent operating condition. The external surface of the item has patches of superficial rust and bare metal.							
THE EX	erriai surre		ilem nas	patches of su	perticiai rus	st and bare metal.	
Signific	ance Mat				State His	storical Themes:	
		Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	$\overline{\mathbf{Z}}$				Themes	13 Transport	
Repres-						15 Utilities	
entative	$\overline{\mathbf{Z}}$					16 Industry	
						☐ 18 Technology☐ 20 Government /	A duniminatantia a
Statom	and of Cia		. The 24				
being as	ent or alg	Initicance	: Ine ite	m was an inte	egrai part d	of the Eveleigh Loc	omotive Workshops al part of the steam
hammer	and olive	er systems	The it	em represent	s former n	e ileiii is an inlegra	nologies now rarely
evident	in operat	ing works	hops.	The item evid	lences the	versatility of the	workshops in the
manufac	cture of to	ols and ma	achines.	The item and	its operati	on is easy to interp	oret from its existing
fabric.					-		۱
Conser	vation Po	licy:					·
The iten	n is to re	tained in	its prese	nt location an	nd he nres	enved as part of	the steam hammer
assembl	age, and	hand tool	collection	S.	id be pies	cived as part of	ine steam nammer
	-						
) ·
Policy I	mplemen	tation:				· <u></u>	
All itoma	laiah a-		:-	- Al			
external	eurfaces	cleaned a	g usea II nd dearc	n the present	operations	in Bays 1 & 2 So	uth should have all
removed	or treate	dealleu a	remal su	:aseu using aj rfaces are to	ppropriate he treated	methods. All sup-	erficial rust is to be ite sealant such as
Shell EN	ISIS fluid	or polycrys	talline wa	ax.	DC li Calcu	with all appropris	ite scalarit such as
_							
Conserv	e. May re	position in	same ba	ay.			
Mainten	ance Sch	edule					
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in							
the implementation section.							
Interpretation:							
l e e e e e e e e e e e e e e e e e e e							

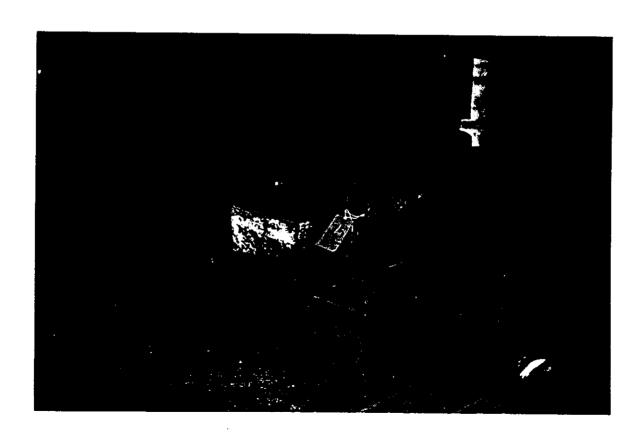
Item Name: Metal Trolley		
Toney	Item N	No. 74
Name Plate: N/A		
Associated Items:		
Individual 🗹		
Assemblage 🔲	·	
System	•	
Collection		
Description: This small trolley with a cast in	ron and timber frame was used for moving pla	to mo!
around the workshops.	on and timber name was used for moving pla	te met
History: The history of the item is unknown.		
unction and Operation: N/A	Location: Bay 1 South 13	
		7 1
•		2
	 	- 3
	FFFF	5 - 6
		- 7
		8 9
	 	10
	FFF	11
		13
		14 15
	4A 4 3 2 1	J .
Photo: FILM No. 95-169-2-6 P	hotographed and inspected December 1995	
1	motographed and hispected December 1995	



Item Na	me: Me	tal Trolley					Item No. 74	
Conditi	on:	* ***			·			
The iten	The item is in good/excellent operating condition.							
The exte	The external surface of the item has patches of superficial rust and bare metal.							
Signific	ance Mat	rix Aesthetic	Casial	TL1	State His	storical Themes:	<u> </u>	
	nistorical	Aestheuc	Social	Technology/ Research Potentiał	Category	☐ Moveable Item	☐ Industrial Relic	
Rare	\square				Themes	13 Transport		
Repres-						☐ 15 Utilities ☐ 16 Industry		
entative	$\overline{\mathbf{Z}}$					18 Technology		
						20 Government A	Administration	
Stateme	nt of Si-	nificanas	The it-	m 1100 == !=+.	 			
							omotive Workshops al part of the steam	
hammer	and olive	er systems	The it	em renresent	ycais. III s former n	e item is an integra nanufacturing techi	nologies now rarely	
evident	in operat	ina works	hops.	The item evid	dences the	e versatility of the	workshops in the	
manufac	ture of to	ols and ma	chines.	The item and	its operati	on is easy to interp	oret from its existing	
fabric.					, •	,		
Conser	vation Po	licy:						
		ined and p	recenter	4				
THE REIT	i is to reta	mied and p	i csei vec	<i>l</i> .				
Policy I	mplemen	tation:			·		***************************************	
All itoms	. which or	a nat hain	ئامىمىنى	- 4b		. :- D 4 0 0 0-	and the second of the second of the	
							outh should have all erficial rust is to be	
removed	or treate	ed Allexi	ernal su	rfaces are to	ppropriate	inethous. All supi	ate sealant such as	
removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.								
· · ·								
Conserve. May reposition in same bay.								
Mainten	ance Sch	edule						
		.ouu.o		•				
Inspect a	all externa	al surfaces	for rust	every 12 mon	ths. Where	e necessary, coat a	as recommended in	
the imple	ementatio	n section.		•				
				•				
Interpre	tation:							
,								
							Ì	
						•	j	

1996

	CONSERVATION	1996
Item Name: Metal Trolley with 2 Metal Boxes		Item No. 75
Name Plate: N/A		
Associated Items:		
Individual		
Assemblage		
System		
Collection		
Description: This small trolley has a frame supported on transled section post in each corner which stands about 50 baskets for holding scrap steel.	wo small wheels and two 00mm high. On it are to	legs. It has ar wo sheet meta
History: The history of the item is unknown.		
Function and Operation: The small trolley was moved when empty from one location to another to receive scrap from various operations.	Location: Bay 1 South	13-14E 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 2 1
Photo: FiLM No. 95-169-2-7 Photographed	and inspected Decemb	er 1995



Item N	ame: Met	al Trolley	with 2 Met	al Boxes			Item No. 75
Condit	ion:						
				g condition.	.		i :
i me ext	ernai sum	ace of the	item nas p	patches of su	perficial ru	st and bare metal.	
Signific	cance Ma	trix Aesthetic	Social	Tarkania	State His	storical Themes:	
	THE COLL A	Aestrieuc	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare					Themes	☐ 13 Transport ☐ 15 Utilities	
Repres-	—			-		16 Industry	
entative	☑					18 Technology	
-						20 Government	
interpre	ssociated t from its e	with their existing fab	operation	n was an inte	egral part o years. 1	of the Eveleigh Loc The item and its c	omotive Workshops operation is easy to
	vation Po	-					
The iten	n is to reta	ined and p	preserved				
Policy I	mplemen	tation:	·				
All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.							
Conserv	∕e. May re	position in	ı same ba	y.			
Mainter	nance Sch	edule			<u></u>		
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
Interpre	tation:						
				•			
	•						
						·	
				•			