

INSPECTION REPORT

Stiff Boom Crane (Under 45 ton)



DATE: March 3, 2023

FILE: EDS-123080

UNIT: 244

EQUIPMENT OWNER	Macro Industries					
EQUIPMENT INFORMATION	QUIPMENT INFORMATION					
EQUIPMENT TYPE						
MANUFACTURER	Manitex					
MODEL	45110T					
SERIAL	203628					
HRS/KM						

	General							
#	DESCRIPTION	REF	STATUS					
1.1	Equipment Information Tag	17-3	Acceptable					
1.2	Labels	17-4	Acceptable					
1.3	Daily Inspection Log	17-5	Acceptable					
1.4	OEM Manuals	17-6	Acceptable					
1.5	Guards	17-7	Acceptable					
1.6	Load Chart	17-8	Acceptable					
1.7	Level Indicators	17-9	Acceptable					
1.8	Level Indicators	17-9						
1.9	Hand Signal Chart	Acceptable						
	Block							
#	DESCRIPTION	REF	STATUS					
2.1	Cross Pin	27-13	Acceptable					
2.2	Sheave	27-14	Acceptable					
2.3	Sheave Pin		Acceptable					
2.4	Sheave Pin Nut	27-15	Acceptable					
2.5	Sheave Spacer Washer		Acceptable					
2.6	Pins		Acceptable					
2.7	Bolts		Acceptable					
2.8	Bolt Tubes		Acceptable					
2.9	Side Plate		Acceptable					
2.10	Weight Plate	27-16	Acceptable					
2.11	Handling Lug		Acceptable					

Hook						
#	DESCRIPTION	REF	STATUS			
3.1	Location	28-17	Lower			
3.2	Hardware Loose	28-18	Acceptable			
3.3	MPI Inspection	28-19	Acceptable			
3.4	Wear	28-20	Acceptable			
3.5	Straightness	28-21	Acceptable			
3.6	Spread	28-22	Acceptable			
3.7	Freely Rotating	28-23	Acceptable			
3.8	Freely Rotating	28-23				
3.9	Nut	28-24	Acceptable			
3.10	Hook	28-25	Acceptable			
3.11	Latch	28-26	Acceptable			
3.12	Shank	28-27	Acceptable			
3.13	Axial Bearing	28-28	Acceptable			
3.14	Latch Condition	28-29	Acceptable			
	Turre	et				
#	DESCRIPTION	REF	STATUS			
4.1	Weld-Metal Stucture	9-44	Acceptable			
4.2	Rotation Bearing and Fastners	9-45				
4.3	Rotation Gearbox and Motor	9-46				
4.4	Lift Cylinder Pin Boss Area	9-47	Acceptable			
4.5	Tie Down	9-48	Acceptable			
	Pedest	tal				
#	DESCRIPTION	REF	STATUS			
5.1	Weld-Metal Stucture	33-44	Acceptable			
5.2	Collector Block - Mounting Bolts	33-49	Acceptable			
5.3	Hoses / Fittings	33-50				
5.4	Rotation Bearing and Fastners	33-45				
	Winch/H	loist				

General	NAME	MPANY	DESCR	IPTION	REF	STATUS
Regulatory	David Lario	Enigma De	sign Solutions	March 3, 2023	Lar	A Law
Structural	David Lario	Enigma Design Solutions		March 3, 2023	days	Low
Mechanical	North West Crane Enterprises Ltd (Clairmont)					



Grande Prairie, Alberta www.enigma-design.ca



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MODEL	45110T				
SERIAL	203628				
HRS/KM					

Winch/Hoist							
#	DESCRIPTION	STATUS					
6.1	Mounting	36-61	Acceptable				
6.2	Load Line	36-62	Acceptable				
6.3	Hooks, Safety Latch	36-63	Acceptable				
6.4	Motor	36-64					
6.5	Hoses, Fittings	36-65					
6.6	Brake - Operation	36-66					
6.7	Drum						
6.8	Break						
6.9	6.9 Cable						
Operator Cab/Station							

DESCRIPTION REF STATUS 7.1 Control Panel 7.2 Frame 13-67 Acceptable

	Outrigger							
#	DESCRIPTION	REF				LOCATION		
8.1	Location	2-17	DS - Front	DS - Rear	PS - Front	PS - Rear	Center Front	
8.2	Structure	2-76	Acceptable	Acceptable	Acceptable	Acceptable		
8.3	Wear Pads	2-77	Acceptable	Acceptable	Acceptable	Acceptable		
8.4	Welds	2-78	Acceptable	Acceptable	Acceptable	Acceptable		
8.5	Extension Frame	2-79	Acceptable	Acceptable	Acceptable	Acceptable		
8.6	Extension Frame	2-79						
8.7	Leg Frame	2-80	Acceptable	Acceptable	Acceptable	Acceptable		
8.8	Leg Frame	2-80						
8.9	Pads	2-81	Acceptable	Acceptable	Acceptable	Acceptable		
8.10	Hoses	2-82						
8.11	Cylinder Pins and Keepers	2-83						
8.12	Mount	2-53	Acceptable	Acceptable	Acceptable	Acceptable		
8.13	Foot Assembly	2-84	Acceptable	Acceptable	Acceptable	Acceptable		

General	NAME	COMPANY	DATE	SIGNATURE
Regulatory	David Lario	Enigma Design Solutions	March 3, 2023	davd Low
Structural	David Lario	Enigma Design Solutions	March 3, 2023	dard Law
Mechanical	North West Crane Enterprises Ltd (Clairmont)			
Operational	North West Crane Enterprises Ltd (Clairmont)			



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EQUIPMI	ENT OWNER			Ma	acro Industries			
EQUIPMI	ENT INFORMATION							
	IENT TYPE							
 	ACTURER	М	anitex					
MODEL		4!	5110T					
SERIAL		20	03628					
HRS/KIV	1							
			Во	om Secti	ons			
#	DESCRIPTION	REF				LOCATION		
9.1	Location	37-17	Base	Mid 1	Mid 2	Mid 3	Mid 4	Tip
9.2	Design	37-85						
9.3	Structure	37-76	Acceptable	Acceptable	Acceptable			Acceptable
9.4	Welds	37-78	Acceptable	Acceptable	Acceptable			Acceptable
9.5	Wear Pads	37-77	Acceptable	Acceptable	Acceptable			Acceptable
9.6	Lift/Extension Cylinders	37-87	Acceptable	Acceptable	Acceptable			Acceptable
9.7	Rollers/ Wear Pads	37-88						
9.8	Hoses, Hose Carrier, Slide Tubes	37-89						
9.9	Cables	37-90	Acceptable	Acceptable	Acceptable			Acceptable
9.10	Guides (Cable, Boom Length)	37-91	Acceptable	Acceptable	Acceptable			Acceptable
9.11	Sheave, Pins, Bushing	37-92	Acceptable	Acceptable	Acceptable			Acceptable
9.12	Function	37-93						
9.13	Hardware (Cable Bolts/ Springs)	37-94	Acceptable	Acceptable	Acceptable			Acceptable
9.14	Camber	37-95	Acceptable	Acceptable	Acceptable			Acceptable
9.15	Sweep	37-96	Acceptable	Acceptable	Acceptable			Acceptable
9.16	Twist	37-97	Acceptable	Acceptable	Acceptable			Acceptable
	Chassis /	Frame		Miscellaneous				
#	DESCRIPTION	REF	STATUS	#	DESCF	RIPTION	REF	STATUS
10.1	Hydraulic Hoses and Fittings	39-111		11.1	Boor	n Rest	40-122	Acceptable
10.2	Mechanical Guarding	39-113	Acceptable	11.2	Rooste	r Sheave	40-123	Major Deficiency
10.3	Welds	39-78	Acceptable	11.3	Chair	n Rack	40-124	Minor Deficiency
10.4	Tie Down	39-48	Acceptable	-				
10.5	Spacers	39-114	Acceptable					
10.6	Front Bumper	39-115	Acceptable					
10.7	Rear Bumper	39-116	Acceptable					
10.8	Tow Lug	39-117	Acceptable					
10.9	Recovery Lugs	39-118	Acceptable					
	Miscella	neous						
#	DESCRIPTION	REF	STATUS					
	General		NAME	СОМЕ	PANY	DATE	SIGN	IATURE
	Regulatory	Da	vid Lario	Enigma Desig	gn Solutions	March 3, 2023	Javo	Lans
	Structural	Da	vid Lario	Enigma Desig	gn Solutions	March 3, 2023	davo	Low
	Mechanical	North West Crane E	nterprises Ltd (Clairmont)					

North West Crane Enterprises Ltd (Clairmont)



INSPECTION RESULTS

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HRS/KM						

	DEFICIENCY SUMMARY							
#	ITM #	ITEM	DEFICIENCY	CORRECTIVE ACTION	FIGURES			
1	11.2	Rooster Sheave	Keeper Pin Missing, Weld cracked	Replace Keeper pin and Reweld	2			
2	11.2	Chain Rack	Welds cracked	Reweld	3			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

COMMENTS

Recommended to be reviewed and

General	NAME	COMPANY	DATE	SIGNATURE
Regulatory	David Lario	Enigma Design Solutions	March 3, 2023	Land Law
Structural	David Lario	Enigma Design Solutions	March 3, 2023	davd Low
Mechanical	North West Crane Enterprises Ltd (Clairmont)			
Operational	North West Crane Enterprises Ltd (Clairmont)			



Grande Prairie, Alberta Abbotsford, British Columbia

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IMAGES

Stiff Boom Crane (Under 45 ton)



1 OVERALL



	ITEM		
2	DESCRIPTI	ION	
	DEFICIENC	CY	



DEFICIENCY

	ITEM		
4	DESCRIPTION		
	DEFICIENCY		

9	ITEM		
	DESCRIPTION		
	DEFICIENCY		