



# ARTICULATED MOBILE CRANE

## Report

AC A 166213-13



# CraneSafe®

Div of The Crane Industry Council of Australia  
ABN 73 002 565 773

PO Box 136  
MOUNT WAVERLEY VIC 3149  
Phone: +61 (03) 9501 0078  
Email: assessments@cranesafe.com.au

Initial Inspection Date: 22/04/2022  
Reassessment Date: 23/05/2022  
Conforms to Checklist: Yes  
Issued Date: 24/05/2022  
Expiry Date: 31/05/2023



### COMPANY

**Metro Crane Services Pty Ltd**  
ABN 66 616 498 438  
PO Box 8379 GLENMORE PARK NSW 2745

### REPRESENTATIVE

**James Wilkinson**  
02 9898 9843  
accounts@metrocranes.net.au

### ASSESSED BY

**David MacDonald**  
Reg No. NSW1102  
0417 708 644  
dma18830@bigpond.net.au

### COMPANY

**MacDonald's Crane Inspections Pty Ltd**  
P O Box 133 KINGS LANGLEY  
NSW 2147

## Franna MAC25

**LOWER HOURS**  
13199

**KILOMETERS**  
128859

**YOM**  
2013

**SERIAL NUMBER**  
25868

**PLANT NUMBER**  
251

**MAX LOAD**  
25000 KG

**NUMBER OF AXLES**  
2

**DESIGN REGISTRATION NUMBER**  
Q16799

**PLANT REGISTRATION NUMBER**  
MC6- 168511/13/0

**ROAD REGISTRATION**  
CN14FQ

## Assessment

Country Where Assessed	Australia
State	NSW
Operators Manual in English	OK
Log Book	OK
Maintenance Records	OK
Crane Safety Manual	No
Major Inspection Report Sighted	No



## Actions Required

N/A

This report is confirmation that the crane has undergone an annual inspection to the appropriate standard and is considered safe for continued operation at time of inspection.

Accredited for compliance with ISO/IEC 17020

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports

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## Boom and Attachments

Base Section	OK	Boom Lift Cylinders	OK
No. 1 Section	OK	Lock Valve(s)	OK
No. 2 Section	OK	Extension Cylinders	OK
No. 3 Section	OK	Lock Valve(s)	OK
No. 4 Section	N/A	Extend Ropes / Chains	OK
Length Markings	N/A	<i>Limited access</i>	
Rope Compensation System	OK	Retract Ropes / Chains	OK
Hook Lift Lugs and Tonnage Decals	OK	<i>Limited access</i>	
Head Sheaves and bearings	OK	Boom Length Recoil Drum(s)	OK
Idler Sheave and Bearing	OK	Boom Angle Indicator	OK
Rooster Sheave and Bearing	N/A	Extension / Fly Jib	N/A
Extension / Fly Jib Mounts	N/A	Extension Sheaves and Bearings	N/A
Machinery Hook	OK	Boom Hazard Striping	OK
		Rotating Beacon(s)	OK

### ANTI-TWO BLOCKS

Boom Head	OK
Rooster Sheave	N/A
Extension / Fly	N/A

### HOOK BLOCKS - WITH CRANE

Description	25t Hook	Manufacturers Identification	OK
		<i>BBT13921</i>	
Branded WLL (kg)	OK	Safety Latches	OK
<i>25000kg</i>		Swivel	OK
Branded with Tare Weight (kg)	N/A		
<i>kg</i>			

### HOOK BLOCKS - WITH CRANE No. 2

Description	3 Sheave Fall Block	Manufacturers Identification	OK
		<i>BBT13663</i>	
Branded WLL (kg)	OK	Sheaves and Bearings	OK
<i>25000kg</i>		3	
Branded with Tare Weight (kg)	OK		
<i>230kg</i>			

### HOOK BLOCKS - WITH CRANE No. 3

Description	Rhino Hook	Manufacturers Identification	OK
		<i>BBT13486</i>	
Branded WLL (kg)	OK	Safety Latches	OK
<i>15000kg</i>		Swivel	N/A
Branded with Tare Weight (kg)	OK		
<i>25kg</i>			

## Frame and Cabin

Frame	OK	Side Slope Deration Chart	OK
Counterweight Attachment - Security	OK	Control Levers - Clearly Marked	OK
Counterweight Hazard Striping	OK	Control Cables / Pilot Hoses	OK
80km/h Maximum Speed Sign (mounted on rear of crane)	OK	Heater	OK
Boom Mounting Lugs	OK	Air Conditioner	OK
Boom Mounting Pins	OK	Gauges	OK
Lift Cylinder Lugs	OK	Anti-Two block Alarms	OK
Lift Cylinder Pins	OK	Horn	OK
Cab Glass and Mirrors	REMEDIED	Access Steps	OK
Sheet Metal / Guards	OK	Doors and Locks	OK
Seat and Assembly including Seat Belts	OK	Crane Level Indicator	OK
Decals / Signs - In English	OK	Front Wiper	REMEDIED
80km/h Maximum Speed Sticker (mounted in cab of crane)	REMEDIED	Roof Wiper	N/A
Load Charts in English as per AS1418	OK	Windscreen Wiper / Washer	OK

## Drive Systems

Radiator & Coolant level	OK	Engine Mounts	OK
Water Temperature Gauge	OK	Power Transmission Belts	OK
Radiator Hoses / Heater Hoses	OK	Exhaust Brake	OK
Fan / Fan Shaft Assembly	OK	Muffler / Spark Arrestor	OK
Fan Guard	OK	Abnormal Engine Noises	OK
Oil Filter & Oil Level	OK	Fuel Tank & Diesel Level	OK
Water Pump and Conditioner	OK	Drive Coupling	OK
Oil Cooler(s)	OK	Transmission Noise / Leaks	OK
Fuel Lines	OK	Filter and Housing	OK
Throttle	OK	<i>Internal</i>	
		Pump Drives (PTO)	OK
		<i>Constant mesh</i>	

## Chassis Inspection

Frames	OK	Rear Brake(s)	OK
Suspension System	OK	Holding / Parking Brake	OK
Axle Lock Outs (if fitted)	OK	Emergency Brake Release	N/A
Steering Components - Lugs / Pins etc	OK	Front Wheels and Tyres	OK
Front Axle(s)	OK	Rear Wheels and Tyres	OK
Rear Axle(s)	OK	Spare Wheel	N/A
Differentials / Planetary Drives	REMEDIED	Engine Cowls	OK
Transfer Case	REMEDIED	Articulation Joint	OK
Drive Lines	OK	Tackle Boxes	OK
ABS Brakes	N/A	Fire Extinguisher	OK
Front Brake(s)	OK		

## Hydraulic System

Hydraulic Reservoir & Oil Level	OK	Emergency Steering Pump	OK
Return Filters and Housing	OK	Steering Cylinder	OK
Suction Lines and Hoses	OK	Relief Valves	OK
Oil Cooler(s)	OK	Flow Control Valves	OK
Main Pump(s)	OK	Pressure Filter and Housing	N/A
Steering Pump	OK		

## Air Systems

Compressor	OK	Brake Valves	OK
Air Reservoirs	OK	Air Cylinders	OK
Drain Valves	OK	Gauges	OK
Air Lines	OK	Air Dryer	N/A
Brake Chambers	OK		

## Electrical Systems

Battery Box	OK	Hazard Lights	OK
Battery Cables	OK	Work Lights	OK
Battery Isolator	OK	Clearance Lights	OK
Head Lights	OK	Rotating Beacon(s)	OK
Tail Lights	OK	Switches and Relays	OK
Stop Lights	OK	Back-up Alarm	OK
Directional Indicators	OK	Horn for Road Travel	OK

## Main Winch

Winch Condition & Oil Level	OK	Drum Turn Indicator	N/A
Leaks	OK	Wire Rope	OK
Rope Spooling	OK	Rope Anchor and Pin	OK
Winch Attachment, Pins / Bolts	OK	Correct Assembly and Connection of Hoist Rope Anchor	OK
Brake Operation	OK		

## Functional Tests - Main Winch

### Rated Capacity Indicator (RCI)

Load Chart Reference Number

MAC 25 Duty chart 101

Printed Chart - No Load

OK

	Printed Chart	RCI
Boom Angle, deg	47.00°	46.70°
Boom Length, m	18.42m	18.50m
Radius, m	10.00m	10.00m
Load, kg	2950kg	2900kg

### Rated Capacity Limiter (RCL)

Load Chart Reference Number

MAC 25 duty chart 101

Rated Load - Boom Fully Extended

OK

	RCI	Measured
Radius, m	10.50m	10.50m
Load, kg	2800kg	2310kg

Rated Load in Stability

OK

	RCI	Measured
Radius, m	10.50m	10.50m
Load, kg	2800kg	2310kg

Line Pull Test

OK

	RCI	Measured
Load, kg	4200kg	4300kg

Winch Brake Test

OK

	RCI	Measured
Load, kg	4200kg	4300kg

Overload Warning Lights and Alarms

OK

Rated Capacity Limiter Fitted (Overload Limiter)

OK

*Audible and visual warning*

*Motion cut activated*

## Crack Inspection

**No Cracks Detected**

**OK**

*Visual inspection only*

*Any third party testing is not included in the CraneSafe NATA accreditation.*

## Manufacturer Additional

N/A

## Site Requirements

N/A





No. 3 Section



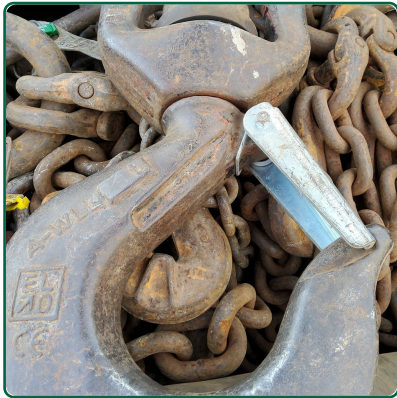
Head Sheaves and bearings



Description



Manufacturers Identification



Description



Manufacturers Identification



Description



Manufacturers Identification





Lift Cylinder Pins



Cab Glass and Mirrors



Cab Glass and Mirrors



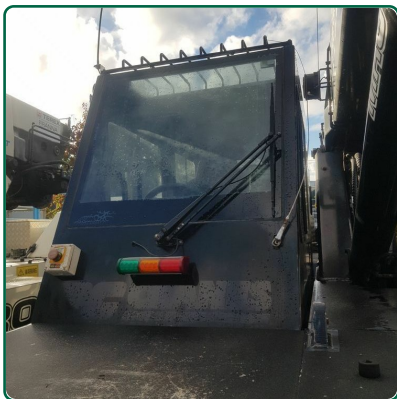
80km/h Maximum Speed Sticker (mounted in cab of crane)



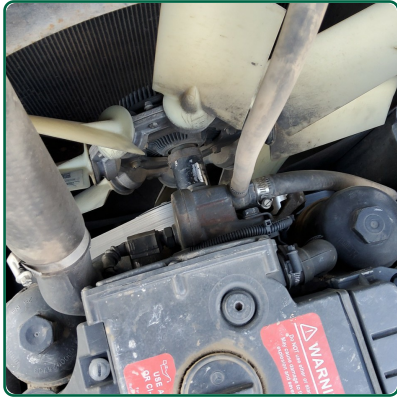
80km/h Maximum Speed Sticker (mounted in cab of crane)



Front Wiper



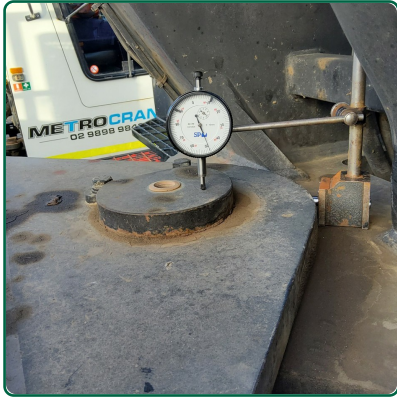
Front Wiper



Fan / Fan Shaft Assembly



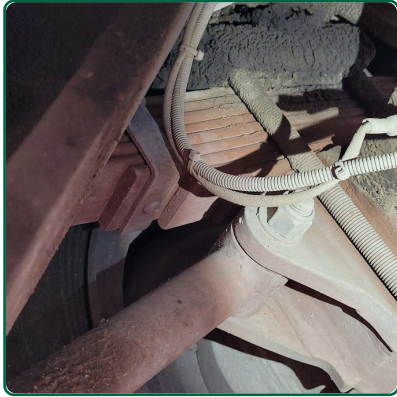
Exhaust Brake



**Articulation Joint**  
*Adjust/ repair before next inspection*



**Rear Wheels and Tyres**



**Suspension System**



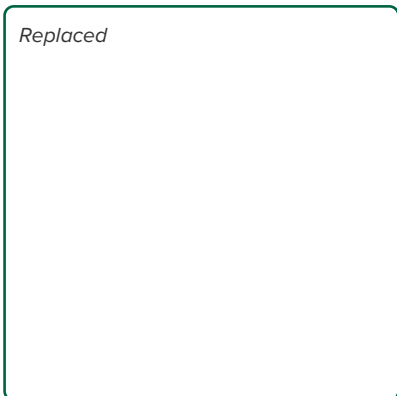
**Front Brake(s)**



**Differentials / Planetary Drives**



**Differentials / Planetary Drives**



**Transfer Case**

## Hydraulic System



**Steering Pump**

## Air Systems



**Compressor**



**Brake Chambers**



**Brake Valves**

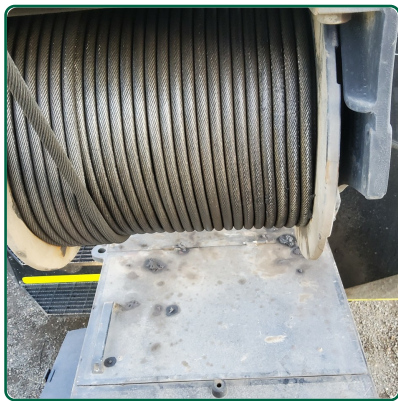


Head Lights



Directional Indicators

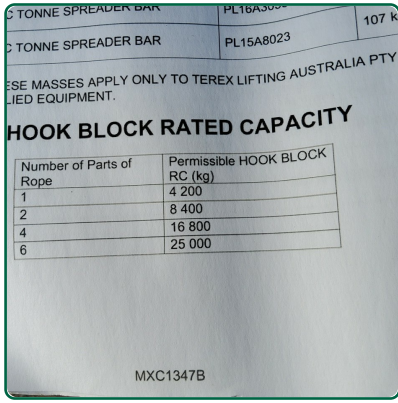
Main Winch



Rope Spooling



Correct Assembly and Connection of Hoist Rope Anchor



Line Pull Test



Load Chart Reference Number



Rated Load - Boom Fully Extended



Rated Load - Boom Fully Extended



Rated Load - Boom Fully Extended



Line Pull Test



Winch Brake Test



Certificate No: NSW166213

CraneSafe®

Accreditation no. 19898

**CERTIFICATE OF ANNUAL INSPECTION AND TESTING**

**Articulated Mobile Crane**

**Inspection Date:** 23/05/22

**Renewal Date:** 31/05/2023

**Issued Date:** 24/05/2022

**Location of Inspection:** Metro Cranes Glendening

**Crane Owner:** Metro Crane Services Pty Ltd

**Address:** PO Box 8379 GLENMORE PARK, 2745, NSW, Australia

**Crane Make:** Franna

**Crane Model:** MAC25

**Crane Serial Number:** 25868

**YOM:** 2013

**Hours:** 13199



Inspection in accordance with:  AS2550.1 & AS2550.5  EN (FEM&ISO)  JIS

Codes of Practice  Manufacturer's Instructions.

**Inspection Comments:**

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This certificate is confirmation that the crane has undergone an annual inspection to the appropriate standard and is considered safe for continued operation at time of inspection.

**Signed:** \_\_\_\_\_

**Printed Name:** David MacDonald

**CraneSafe Assessor No.:** NSW1102

**CraneSafe Assessment No:** AC A 166213-13

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Certificate No: NSW166213

CraneSafe®

Accreditation no. 19898

**LOAD INDICATOR CERTIFICATION**  
**Articulated Mobile Crane**

**Annual Inspection Date:** 24/05/2022

**Crane Owner:** Metro Crane Services Pty Ltd

**Address:** PO Box 8379 GLENMORE PARK, 2745, NSW, Australia

**Crane Make:** Franna

**Crane Model:** MAC25

**Crane Serial Number:** 25868

**YOM:** 2013 **Hours:** 13199

**Rated Capacity Indicator (RCI)**

**Load Chart Reference Number**

MAC 25 Duty chart 101

**Printed Chart - No Load**

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	47.00	46.70
Boom Length, m	18.42	18.50
Radius, m	10.00	10.00
Load, kg	2,950.00	2,900.00

**Rated Capacity Limiter (RCL)**

**Load Chart Reference Number**

MAC 25 duty chart 101

**Rated Load - Boom Fully Extended**

**Rated Load in Stability**

	Rated Capacity Indicator	Measured
Radius, m	10.50	10.50
Load, kg	2,800.00	2,310.00

	Rated Capacity Indicator	Measured
Radius, m	10.50	10.50
Load, kg	2,800.00	2,310.00

**Line Pull Test**

	Rated Capacity Indicator	Measured
Load, kg	4,200.00	4,300.00

**Winch Brake Test**

	Rated Capacity Indicator	Measured
Load, kg	4,200.00	4,300.00

At the time of test, the load indicator was reading in accordance with the requirements of AS1418.1 & AS1418.5 and the load charts supplied with the crane

**Signed:** \_\_\_\_\_

**Printed Name:** David MacDonald

**CraneSafe Assessor No.:** NSW1102

**CraneSafe Assessment No.:** AC A 166213-13

**Issued Date.:** 24/05/2022

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# SUPPORTING INFORMATION

Line Pull Test

HOOK BLOCK	PP2190200	30 kg
PART HOOK BLOCK	PL16M2090	25 kg
HOOK	PLMXF3015	94 kg
10 TONNE SPREADER BAR	PL16A3035	107 kg
5 TONNE SPREADER BAR	PL15A8023	

THESE MASSES APPLY ONLY TO TEREX LIFTING AUSTRALIA PTY  
LIMITED EQUIPMENT.

## HOOK BLOCK RATED CAPACITY

Number of Parts of Rope	Permissible HOOK BLOCK RC (kg)
1	4 200
2	8 400
4	16 800
6	25 000

MXC1347B

2022-04-22 08:00:37

Load Chart Reference Number

**MAC-25 FALL BLOCK LOAD CHART - 10 DEG. ART.**  
**COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED**

S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).  
 BOOM ANGLE - UNDERLECTED (REF.)  
 NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH  
 - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL  
 S.W.L. ARE BASED ON FIRM LEVEL GROUND (1% SLOPE (0.6 DEG WITH TYRES INFLATED AS PER NOTES  
 LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS

**3/36 MXC1250-**  
**COUNTERWEIGHT - FRONT**

Radius in Metres	BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED (metres)																		THIRD BOOM (metres)				
	6.12	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.32	14.50		15.00	15.50	16.00	16.50
1.4	23900	23850	23750	23800	23800	23750	23750																
2.0	19950	19900	19850	19800	19750	19750	19700	19650	19600	19500													
2.5	15700	15650	15600	15600	15550	15500	15450	15400	15350	15300	15250	15200	15150	15100	15050	15000	14950	14900	14850	14800	14750	14700	
3.0	12800	12800	12800	12800	12750	12700	12650	12600	12550	12500	12450	12400	12350	12300	12250	12200	12150	12100	12050	12000	11950	11900	
4.0	10400	10400	10400	10400	10350	10300	10250	10200	10150	10100	10050	10000	9950	9900	9850	9800	9750	9700	9650	9600	9550	9500	
5.0	8800	8800	8800	8800	8750	8700	8650	8600	8550	8500	8450	8400	8350	8300	8250	8200	8150	8100	8050	8000	7950	7900	
6.0	7600	7600	7600	7600	7550	7500	7450	7400	7350	7300	7250	7200	7150	7100	7050	7000	6950	6900	6850	6800	6750	6700	
7.0	6600	6600	6600	6600	6550	6500	6450	6400	6350	6300	6250	6200	6150	6100	6050	6000	5950	5900	5850	5800	5750	5700	
8.0	5800	5800	5800	5800	5750	5700	5650	5600	5550	5500	5450	5400	5350	5300	5250	5200	5150	5100	5050	5000	4950	4900	
9.0	5100	5100	5100	5100	5050	5000	4950	4900	4850	4800	4750	4700	4650	4600	4550	4500	4450	4400	4350	4300	4250	4200	
10	4500	4500	4500	4500	4450	4400	4350	4300	4250	4200	4150	4100	4050	4000	3950	3900	3850	3800	3750	3700	3650	3600	
11	4000	4000	4000	4000	3950	3900	3850	3800	3750	3700	3650	3600	3550	3500	3450	3400	3350	3300	3250	3200	3150	3100	
12	3600	3600	3600	3600	3550	3500	3450	3400	3350	3300	3250	3200	3150	3100	3050	3000	2950	2900	2850	2800	2750	2700	
13	3200	3200	3200	3200	3150	3100	3050	3000	2950	2900	2850	2800	2750	2700	2650	2600	2550	2500	2450	2400	2350	2300	
14	2800	2800	2800	2800	2750	2700	2650	2600	2550	2500	2450	2400	2350	2300	2250	2200	2150	2100	2050	2000	1950	1900	
15	2400	2400	2400	2400	2350	2300	2250	2200	2150	2100	2050	2000	1950	1900	1850	1800	1750	1700	1650	1600	1550	1500	
15.71																							

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

MAC 25 FALL BLOCK

AS PER AS1418.5

MINIMUM BOOM LENGTH 4.45  
 BOOM SPEED OF 0.4 M/SEC (1.44 KM/HR)

LMI DUTY **701**

EXTENDING

1.50	17.00	17.50	18.00	18.50
63	63	64	65	
5700	5700	5750	5750	5800
58	60	61	61	62
4650	4700	4750	4750	4800
54	56	57	58	59
3900	3950	4000	4000	4050
50	51	53	54	55
3380	3380	3400	3400	3450
45	47	48	50	51
2850	2900	2900	2950	2950
40	42	44	45	47
2450	2500	2550	2550	2600
34	37	39	41	42
2150	2200	2200	2250	2250
27	30	33	36	37
1850	1900	1950	1950	2000
18	23	27	30	32
1650	1650	1700	1700	1750
(13.8)	11	18	22	25
1800	1500	1500	1550	
(14.3)	(14.8)	11	16	
		1450	1400	
		(15.3)	(15.7)	

WINCH S.W.L.  
 SINGLE PART 4200  
 TWO PARTS 3400  
 FOUR PARTS 1980  
 SIX PARTS 2200

2022:04:22 08:04:05

Rated Load - Boom Fully Extended





Rated Load - Boom Fully Extended





Rated Load - Boom Fully Extended





Line Pull Test



The instrument cluster features several gauges and digital displays:

- Top Left:** A vertical level indicator with markings at 0, 1/2, and 1.
- Top Center:** A large tachometer labeled "RPM x 1000" with a scale from 0 to 2 and a red needle pointing to approximately 1.5.
- Bottom Left:** An engine pressure gauge labeled "ENGINE" with a scale from 0 to 5 and a red needle pointing to approximately 2.5.
- Bottom Center:** An engine temperature gauge labeled "ENGINE" with a scale from 40 to 120 °C and a red needle pointing to approximately 100.
- Top Right:** A grid of digital readouts (DROs) showing:
  - 10.8 t (red background)
  - 8.1 m (brown background)
  - 8.4 m (brown background)
  - 3.5 m (blue background)
  - 44.3 ° (brown background)
- Right Side:** A vertical column of icons and a "FRONT AXLE" label.
- Center:** A large black bar with the text "OVERLOAD ON ROPE" in white.
- Bottom Right:** A blue button with a white left-pointing arrow.

**TEREX®**



2022-04-22 08:47:49

# Winch Brake Test







Line Pull Test

	PP2190200	30 kg
PART HOOK BLOCK	PL16M2090	25 kg
HOOK	PLMXF3015	94 kg
10 TONNE SPREADER BAR	PL16A3035	107 kg
5 TONNE SPREADER BAR	PL15A8023	

THESE MASSES APPLY ONLY TO TEREX LIFTING AUSTRALIA PTY  
 EQUIPPED EQUIPMENT.

## HOOK BLOCK RATED CAPACITY

Number of Parts of Rope	Permissible HOOK BLOCK RC (kg)
1	4 200
2	2 100

2	8 400
4	16 800
6	25 000

MXC1347B

2022-04-22 08:00:37

Load Chart Reference Number

3/36 MXC1250-

**MAC-25 FALL BLOCK LOAD CHART**  
**COUNTERWEIGHT ON FRONT OF CRANE - SPRING**  
 S.W.L IN KILOGRAMS FOR SLEW ANGLES C  
 SIDE OF STRAIGHT-AHEAD (INDICATED BY  
 BOOM ANGLE - UNDERLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RAC

Radius in	BOOM PIVOT TO 1									
	6.12	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50
1.4	23900	23850	23750	23800	23800	23750	2375			
2.0	19950	19900	19850	19800	19750	19700	1970			
2.5	15700	15650	15600	15600	15550	15500	1550			
3.0	12800	12800	12800	12750	12750	12700	12700	12650	12650	12600
4.0	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400
6.0	(4.3)	(4.3)	(4.8)	16	25	31				
7.0				6550	5850	5800	5			
8.0							5250	4		
9.0							(6.3)	(6.3)		
10										
11										
12										
13										
14										
15										
15.71										

NOTE: WEIGHT OF HOOKS, BLOCKS &  
 LOAD HANDLING DEVICES SHALL BE  
 TO THE WEIGHT OF THE LOAD

**RT - 10 DEG. ART.**  
**LOCKOUTS ENGAGED**  
 IF 10 DEGREES OR LESS EITHER  
 GREEN LED ON DASH)  
 MUST AT ZERO DEG. BOOM ANGLE

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH  
 - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL  
 - S.W.L. ARE BASED ON FIRM LEVEL GROUND (1% SLOPE (0.6 DEG) AS PER AS1418.5)  
 WITH TYRES INFLATED AS PER NOTES  
 LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS  
 CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC (1.44 KM/HR)

LMI DUTY **101**

HEAD SHEAVES - THIRD BOOM RETRACTED										THIRD BOOM EXTENDING									
(metres)										(metres)									
9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.32	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42	
0	23750																		
65																			
0	19650	19650	19800	19300															
61	67	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	16800	
10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	10800	
9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	9100	
48	51	53	55	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
000	7000	7000	6950	6970	6950	6950	6950	6900	6900	6900	6900	6950	7000	7050	7100	7100	7150	7200	
36	40	43	46	46	50	52	54	56	58	58	59	61	62	63	64	65	65	65	
5600	5800	5550	5550	5550	5550	5550	5500	5500	5500	5500	5550	5600	5650	5700	5700	5750	5750	5800	
24	30	34	38	41	44	46	48	50	53	55	56	57	58	59	60	61	61	62	
750	4550	4550	4550	4550	4550	4550	4500	4500	4500	4550	4600	4650	4700	4700	4750	4750	4800	4800	
14	23	28	33	36	39	42	44	48	48	50	52	53	54	56	57	58	59	59	
4300	3900	3800	3800	3800	3900	3750	3750	3750	3800	3850	3900	3900	3950	4000	4000	4000	4050	4050	
(7.3)	(7.8)	14	22	27	31	35	38	42	43	45	47	48	50	51	53	54	55	55	
		3600	3300	3200	3200	3200	3200	3150	3200	3250	3300	3350	3400	3400	3400	3450	3450	351	
		(8.3)	(8.8)	13	21	27	31	35	38	41	43	45	47	48	49	50	51	51	
				3000	2800	2700	2700	2700	2700	2750	2800	2850	2900	2900	2900	2950	2950	2950	
				(8.3)	(9.8)	12	20	28	29	32	35	38	40	42	44	45	47	47	
						2550	2350	2300	2350	2400	2450	2500	2550	2550	2600	2600	2600	2600	
						(10.3)	(10.8)	17	19	24	28	31	34	37	39	41	42	42	
								2100	2050	2100	2100	2150	2200	2200	2250	2250	2250	2250	
								(11.6)	(11.8)	12	19	23	27	30	33	36	37	37	
									1950	1850	1850	1900	1950	1950	2000	2000	2000	2000	
									(12.3)	(12.8)	11	18	23	27	30	32	32	32	
									1750	1650	1650	1700	1700	1750	1750	1750	1750	1750	
									(13.3)	(13.8)	11	18	23	27	30	32	32	32	
									1600	1500	1500	1500	1500	1550	1550	1550	1550	1550	
									(14.3)	(14.8)	11	16	16	16	16	16	16	16	
									1450	1400	1400	1400	1400	1400	1400	1400	1400	1400	
									(15.3)	(15.7)									

OTHER ADDED

COUNTERWEIGHT - FRONT

MAC 26 FALL BLOCK

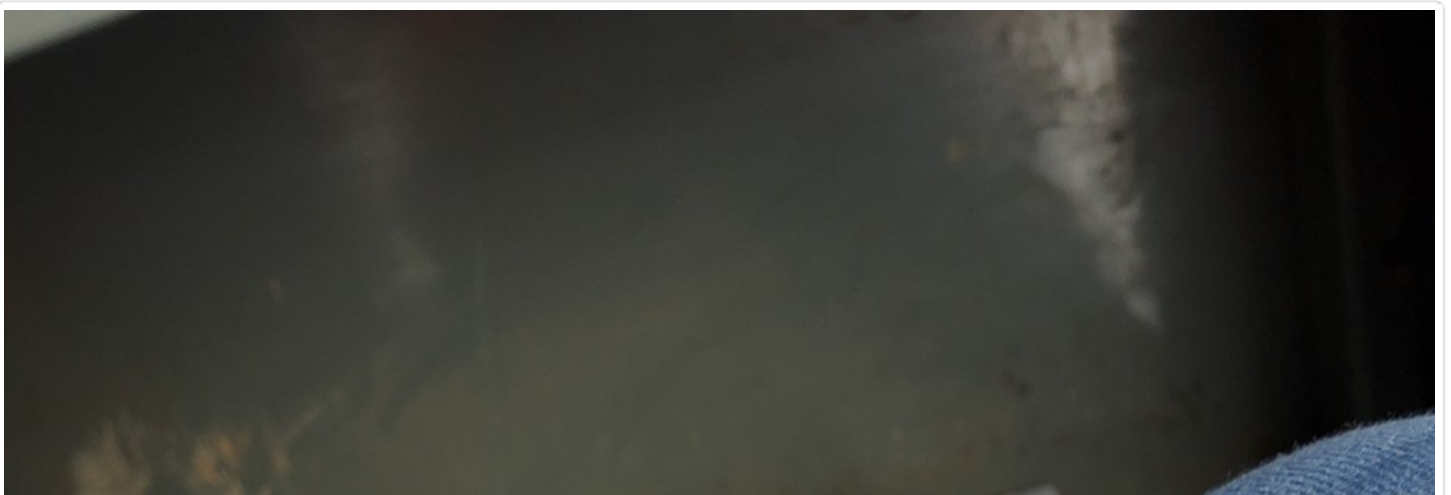
2022:04:22 08:04:05

Rated Load - Boom Fully Extended





Rated Load - Boom Fully Extended





Rated Load - Boom Fully Extended





2022:04:22 08:26:17

Line Pull Test



FALL BLOCK

FRONT COUNTERWEIGHT



0.0 °

101



0.0 m



4.3 t

18.5 t



10.8 t

FRONT AXLE



8.1 m



8.4 m



3.5 m



44.3 °



OVERLOAD ON ROPE



TEREX®



Winch Brake Test







2022:04:22 08:48:23