



ROUGH TERRAIN CRANE Annual Report

RTC A 214462-15.2



CraneSafe®

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

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MOUNT WAVERLEY VIC 3149
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Initial Inspection Date: 18 May 2026
Conforms to Checklist: Yes
Issued Date: 29 May 2026
Next Inspection Date: 20 May 2027

INSPECTED FOR & OWNED BY
Metcalf Crane Services Pty Ltd
ABN 43 076 537 749
PO Box 54 SOMERTON
VIC 3062

REPRESENTATIVE

Mr. Tim Metcalf
03 9308 0044
workshop@metcalfcranes.com.au



Tadano GR-200E-3-00101

MACHINE HOURS

2505

KILOMETERS

31136

SERIAL NUMBER

527419

PLANT NUMBER

U145

DESIGN REGISTRATION NO.

CR6-225440/18

PLANT REGISTRATION NO.

TBA

ROAD REGISTRATION

XW 93VX

YOM

2022

MAX LOAD

20000 kg

NUMBER OF AXLES

2

Assessed By

Name John Carroll

Phone 0418 508 870

Company Jatco Engineering VIC Pty Ltd

Reg No. VIC1017

Email info@jatco.com.au

Address PO Box 260 BALLARAT VIC 3353

Assessment

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

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. This report is confirmation that the crane has undergone a visual inspection on the date(s) stated and meets the standards of the CraneSafe assessment program at the time of inspection. The CraneSafe annual inspection is in addition to and does not replace pre-operation and routine inspections, maintenance and repairs necessary to comply with work, health and safety laws and requirements. In no event shall either CraneSafe or CraneSafe Endorsed Assessors be liable for any direct, indirect, punitive, incidental, special or consequential damages, including but not limited to loss of income, revenue, opportunity, goodwill, profit, anticipated saving or value of equipment arising out of or in any way connected with the use of the services, whether based on contract, tort, strict liability or otherwise, even if advised of the possibility of any such damages. This report is provided solely for the benefit of the Company named on its face. No other person is entitled to rely on anything contained in this Report and must make and rely solely on their own inspection and assessment in all respects and for all purposes.

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

All CraneSafe forms, checklists, surveys, audits and reports together with the embedded methodology contained within are the intellectual property of The Crane Industry Council of Australia and may not be used without The Crane Industry Council of Australia's prior written consent.

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Boom and Attachments

Base Section	OK	Boom Pinning System	OK
No. 1 Section	OK	Proximity Switches	OK
No. 2 Section	OK	Boom Length Recoil Drum(s)	OK
No. 3 Section	OK	Mechanical Boom Angle Indicator	N/A
No. 4 Section	OK	Fixed Jib	N/A
No. 5 Section	OK	Luffing Jib	OK
Head Sheaves and bearings	OK	Recoil Drums	OK
Idler Sheave and Bearing	OK	Boom / Attachments / Electrics	OK
Rooster Sheave and Bearing	OK	Extension / Fly Jib	N/A
Extension / Fly Jib Mounts	OK	Sheaves and Bearings	OK
Shimming and Alignment	OK	Boom Hazard Striping	OK
Boom Lift Cylinders	OK	Rotating Beacon(s)	OK
Lock Valve(s)	OK	Main Hoist Rope Socket and Pins	OK
Extension Cylinders	OK	Correct Assembly and Connection of Hoist Rope	OK
Lock Valve(s)	OK	Socket	
Extend Ropes / Chains	OK	Auxiliary Hoist Rope Socket and Pins	OK
Retract Ropes / Chains	OK	Correct Assembly and Connection of Auxiliary Hoist	OK
		Rope Socket	
		Anemometer	OK

ANTI-TWO BLOCKS

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

HOOK BLOCKS - WITH CRANE			
Description	Aux headache ball	Hook Shank Retainer	OK
Manufacturer's Identification	OK	Branded WLL (kg)	OK
SH010120		3200kg	
Branded with Tare Weight (kg)	OK	Sheaves and Bearings	N/A
50kg		0	
Swivel	OK	Hook	OK
Safety Latches	OK		
1			

HOOK BLOCKS - WITH CRANE No. 2			
Description	Main hook block	Hook Shank Retainer	OK
Manufacturer's Identification	OK	Branded WLL (kg)	OK
M-82-8-20		20000kg	
Branded with Tare Weight (kg)	OK	Sheaves and Bearings	OK
175kg		x3	
Swivel	OK	Hook	OK
Safety Latches	OK		

Revolving Frame and Cabin

Frame	OK	Control Cables / Pilot Hoses	OK
Counterweight Attachment - Security	OK	Heater	OK
Counterweight Hazard Striping	OK	Air Conditioner	OK
Boom Mounting Lugs	OK	Gauges	OK
Boom Mounting Pins	OK	Anti Two-Block Alarms	OK
Lift Cylinder Lugs	OK	Horn	OK
Lift Cylinder Pins	OK	Access Steps	OK
Cab Glass and Mirrors	OK	Doors and Locks	OK
Sheet Metal / Guards	OK	Crane Level Indicator	OK
Seat Assembly including Seat Belt	OK	Outrigger Controls	OK
Throttle	OK	Cab Mounts	OK
Dead Man Controls	OK	Front Wiper	OK
Free Fall Lockout	N/A	Roof Wiper	OK
Decals / Signs - In English	OK	Windscreen Wiper / Washer	N/A
Load Charts in English as per AS1418	OK	Switches and Relays	OK
Control Levers - Clearly Marked	OK	Steering Assembly	OK

Slew System

Slew Transmission & Oil Level	OK	Base Weld	OK
No Leaks Present	OK	Smooth Operation	OK
Slew Brake	OK	Rotary Coupling	OK
Lock Valve(s)	OK	Slew Bolts	OK
House Lock	OK	Bearing Play Considered Acceptable	OK
Slew Pinion	OK	Backlash Considered Acceptable	OK
Slew Gear	OK	Electrical Swivel	OK
Slewing Ring	OK		

Main Winch

Winch Condition & Oil Level	OK	Drum Turn Indicator	OK
No Leaks Present	OK	Rope Spooling	OK
Winch Attachment, Pins / Bolts	OK	Main Wire Rope	OK
Brake Caliper and Disc	N/A	Correct Assembly and Connection of Hoist Rope	OK
Friction Pads	OK	Anchor	
Brake Operation	OK	Drum Locking Pawl Mechanism	N/A
		Clutch Linings and Cylinder Protection	N/A

Auxiliary Winch

Winch Condition & Oil Level	OK	Drum Turn Indicator	OK
No Leaks Present	OK	Rope Spooling	OK
Winch Attachment, Pins / Bolts	OK	Auxiliary Wire Rope	OK
Brake Caliper and Disc	OK	Correct Assembly and Connection of Auxiliary Hoist	OK
Friction Pads	OK	Rope Anchor	
Brake Operation	OK	Drum Locking Pawl Mechanism	N/A
		Clutch Linings and Cylinder Protection	N/A

Hydraulic System

No Hydraulic Leaks Present	OK	Main Winch Motor	OK
Hydraulic Reservoir & Oil Level	OK	Auxiliary Winch Motor	OK
Return Filters and Housing	OK	Winch Control Valve(s)	OK
Hydraulic Lines \ Hoses and Fittings	OK	Auxiliary Winch Valve	OK
Oil Cooler(s)	OK	Boom Lift Valve	OK
Main Pump(s)	OK	Boom Extension Valve	OK
Slew Pump	OK	Pressure Lines and Hoses	OK
Steering Pump	OK	Power Steering Cylinders	OK
Pilot Pump	OK	Vertical Outrigger Cylinders	OK
Relief Valves	OK	Horizontal Outrigger Cylinders	OK
Pressure Filter and Housing	OK	Outrigger Control Valves	OK
Slew Motor(s)	OK	Outrigger Lock Valves	OK
Slew Valve	OK		

Air Systems

Compressor	OK	Brake Chambers	OK
Air Reservoirs	OK	Brake Valves	OK
Drain Valves	OK	Air Cylinders	OK
Air Lines	OK	Air Dryer	OK

Chassis Inspection

Frame	OK	Rear Wheels and Tyres	OK
Suspension System	OK	Outrigger Boxes	OK
Steering Components	OK	Outrigger Beams	OK
Front Axle(s)	OK	Outrigger Pads	OK
Rear Axle(s)	OK	Markings for Alternate Outrigger Widths	OK
Differentials	OK	Outrigger Hazard Striping	OK
Reduction Hubs	OK	Sheet Metal / Guards	OK
Drive Lines	OK	Decals / Signs - In English	OK
Front Brake(s)	OK	Doors and Locks	OK
Rear Brake(s)	OK	Outrigger Controls and Labeling	OK
Parking Brake	OK	Earth Strap	OK
Front Wheels and Tyres	OK	Fire Extinguisher	OK

Electrical Systems

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

Drive Systems

Radiator & Coolant Level	OK	Engine Oil Pressure & Oil Level	OK
Radiator Hoses	OK	No Abnormal Engine Noises Present	OK
Fan	OK	Fuel Tank & Diesel Level	OK
Fan Guard	OK	Power Shift / Range Shift	OK
Oil Cooler(s)	OK	Drive Coupling	OK
Fuel Lines	OK	Abnormal Transmission Noise	OK
Throttle	OK	No Leaks Present	OK
Engine Mounts	OK	Pump Drives	OK
Power Transmission Belts	OK	Pump Disconnects (PTO)	OK
Muffler / Spark Arrestor	OK	Output Coupling	OK

Rated Capacity Indicator (RCI)																	
Load Chart Reference Number	GR																
	200EX																
Printed Chart - No Load	OK	<table><tr><th></th><th>Printed Chart</th><th>RCI</th></tr><tr><td>Boom Angle, deg</td><td>N/A°</td><td>N/A°</td></tr><tr><td>Boom Length, m</td><td>27.50m</td><td>27.50m</td></tr><tr><td>Radius, m</td><td>10.00m</td><td>10.00m</td></tr><tr><td>Load, kg</td><td>26kg</td><td>2600kg</td></tr></table>		Printed Chart	RCI	Boom Angle, deg	N/A°	N/A°	Boom Length, m	27.50m	27.50m	Radius, m	10.00m	10.00m	Load, kg	26kg	2600kg
	Printed Chart	RCI															
Boom Angle, deg	N/A°	N/A°															
Boom Length, m	27.50m	27.50m															
Radius, m	10.00m	10.00m															
Load, kg	26kg	2600kg															
RCI Load Charts	75%																

Rated Capacity Limiter (RCL)											
Load Chart Reference Number	ISO GR-200EX										
Rated Load - Boom Fully Extended	OK	<table><tr><th></th><th>RCI</th><th>Measured</th></tr><tr><td>Radius, m</td><td>21.40m</td><td>21.40m</td></tr><tr><td>Load, kg</td><td>2200kg</td><td>1951kg</td></tr></table>		RCI	Measured	Radius, m	21.40m	21.40m	Load, kg	2200kg	1951kg
	RCI	Measured									
Radius, m	21.40m	21.40m									
Load, kg	2200kg	1951kg									
Rated Load in Stability	OK	<table><tr><th></th><th>RCI</th><th>Measured</th></tr><tr><td>Radius, m</td><td>21.40m</td><td>21.40m</td></tr><tr><td>Load, kg</td><td>2200kg</td><td>1951kg</td></tr></table>		RCI	Measured	Radius, m	21.40m	21.40m	Load, kg	2200kg	1951kg
	RCI	Measured									
Radius, m	21.40m	21.40m									
Load, kg	2200kg	1951kg									
Line Pull Test	OK	<table><tr><th></th><th>RCI</th><th>Measured</th></tr><tr><td>Load, kg</td><td>11600kg</td><td>12097kg</td></tr></table>		RCI	Measured	Load, kg	11600kg	12097kg			
	RCI	Measured									
Load, kg	11600kg	12097kg									
Winch Brake Test	OK	<table><tr><th></th><th>RCI</th><th>Measured</th></tr><tr><td>Load, kg</td><td>11600kg</td><td>12kg</td></tr></table>		RCI	Measured	Load, kg	11600kg	12kg			
	RCI	Measured									
Load, kg	11600kg	12kg									
RCL Warning Lights and Alarms	OK	Rated Capacity Limiter FittedOK									

Functional Tests - Auxiliary Winch

Load Chart Reference Number	GR200EX		
Rated Load - Boom Fully Extended	N/A	Rated Load in Stability	N/A
Line Pull Test	OK		
		RCI	Measured
		Load, kg	3200kg3606kg
Winch Brake Test	OK		
		RCI	Measured
		Load, kg	3200kg3606kg
RCL Warning Lights and Alarms	OK	Rated Capacity Limiter Fitted	OK

Function Tests - On Rubber

Load Chart Reference Number	ISO GR-200EX		
Rated Load in Stability	OK		
		RCI	Measured
		Radius, m	4.00m4.00m
		Load, kg	2700kg2700kg
RCL Warning Lights and Alarms	OK	Rated Capacity Limiter Fitted	OK

Crack Inspection

No Cracks Detected	OK
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Any third party testing is not included in the CraneSafe NATA accreditation.

Manufacturer Additional

N/A

Site Requirements

N/A

Crane



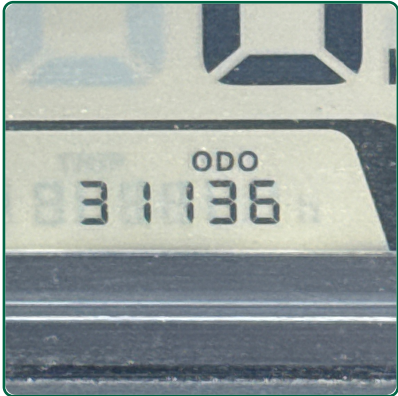
Serial Number



Model



Machine Hours



Kilometers

Digital check sheets

U145 service report 02.03.2026.pdf

Maintenance Records

u145 prestart.pdf

Log Book

Boom and Attachments



No. 5 Section



Boom Lift Cylinders



Base Section



Idler Sheave and Bearing



Rooster Sheave and Bearing



Boom Hazard Striping



Main Hoist Rope Socket and Pins



Correct Assembly and Connection of Hoist Rope Socket



Auxiliary Hoist Rope Socket and Pins



Correct Assembly and Connection of Auxiliary Hoist Rope Socket



Anemometer



Boom Head



Rooster Sheave

Not fitted at the time of inspection

Luffing Jib



Description



Hook Shank Retainer



Manufacturer's Identification



Description



Hook Shank Retainer



Manufacturer's Identification



Crane Level Indicator



Control Levers - Clearly Marked



Outrigger Controls

Slew System



Slew Brake
*Checked and working
satisfactory at the time of
inspection*



Base Weld

Main Winch

Checked at service intervals

Winch Condition & Oil Level



Correct Assembly and
Connection of Hoist Rope
Anchor

Auxiliary Winch



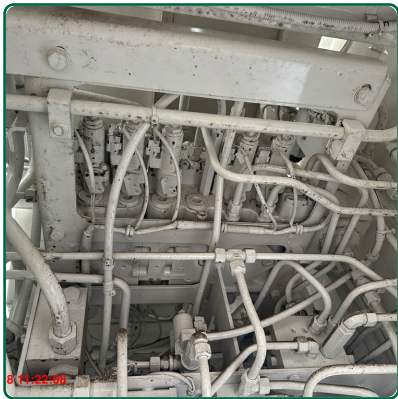
Correct Assembly and
Connection of Auxiliary Hoist
Rope Anchor



Correct Assembly and
Connection of Auxiliary Hoist
Rope Anchor

Checked at service intervals

Winch Condition & Oil Level



Boom Lift Valve



Vertical Outrigger Cylinders

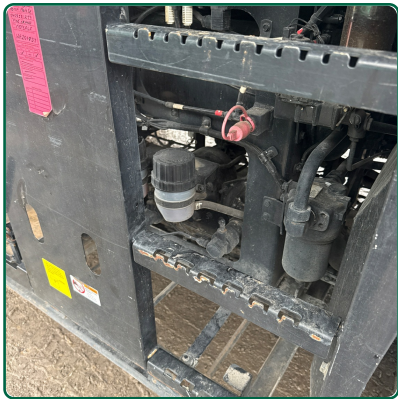


Vertical Outrigger Cylinders



Vertical Outrigger Cylinders

Air Systems



Air Reservoirs

Internal with no leaks detected at the time of inspection

Air Cylinders

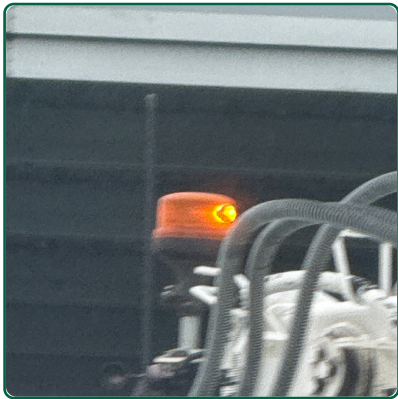


Fire Extinguisher



Earth Strap

Electrical Systems



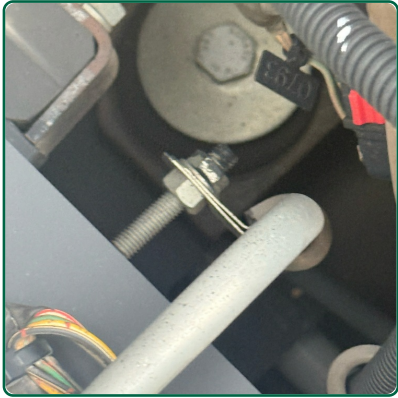
Rotating Beacon(s)

Checked and working satisfactory at the time of inspection

Hazard Lights



No Leaks Present



Engine Mounts

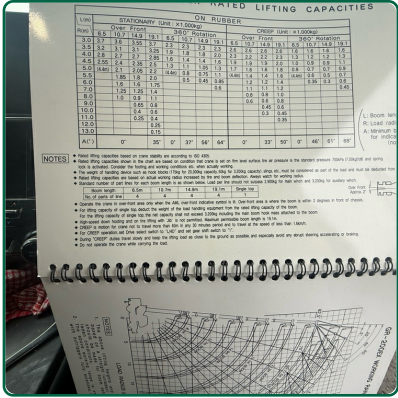
Checked at pre start

Radiator & Coolant Level

Functional Tests - Main Winch

ON OUTRIGGERS FULLY EXTENDED 5.2m SPREAD 360° ROTATION L&R: ± 1000kg					
L(m)	6.5	10.7	14.9	19.1	23.3 27.5
R(m)	2.5	20.0	12.0	9.0	7.0
3.0	16.0	12.0	9.0	7.0	
3.5	14.0	12.0	9.0	7.0	5.0 3.5
4.0	12.5	12.0	9.0	7.0	5.0 3.5
4.5	11.7	11.1	9.0	6.6	4.95 3.5
5.0 (4.4m)	10.25	8.9	6.35	4.7	3.5
5.5	9.4	8.2	6.3	4.4	3.35
6.0	8.8	7.6	6.2	4.2	3.2
7.0	6.75	6.5	5.8	4.0	2.95
8.0	5.05	4.95	5.15	3.9	2.8
9.0	4.35	3.9	4.3	3.7	2.75
10.0	(8.6m)	3.1	3.45	3.3	2.65
11.0		2.5	2.85	3.05	2.4
12.0		2.0	2.35	2.65	2.2
13.0		1.7	1.95	2.2	2.05
14.0		(12.8m)	1.6	1.85	1.9
15.0			1.35	1.55	1.7
16.0			1.15	1.3	1.45
17.0			0.95	1.1	1.25
18.0				0.95	1.1
19.0				0.75	0.95
20.0				0.65	0.8
22.0				0.5	0.5
24.0					(21.2m) 0.35

Load Chart Reference Number



Line Pull Test



Load



Load



RCL Warning Lights and Alarms



Rated Load - Boom Fully Extended



Load

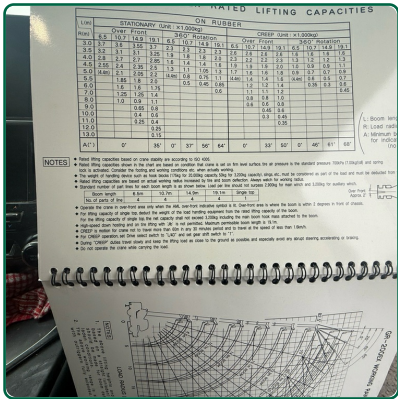


Load

1915kg+hook block and rigging motion cut as per the load chart

Rated Capacity Limiter Fitted

Functional Tests - Auxiliary Winch



Line Pull Test



Line Pull Test



Load



Load

Function Tests - On Rubber



Load Chart Reference Number



Rope Termination (End 1)



Rope Termination (End 2)



Rope Termination (End 1)



Rope Termination (End 2)

Miscellaneous

Superstructure		Vehicle	
Model	GR-2000X	Gross vehicle weight	19,960t
Crane name	20.0 hydraulic wheel crane	Overall length	8.310m
Boom length	4.5m - 21.5m (8-sections)	Overall width	2.450m
Jib length	0.31m	Overall height	3.200m
Single line length	71m (Extension length 21.0m)	Wheel base	3.200m
Boom extension time	30s (~9~82.5)	Tread	1.950m
Boom elevation time	30s (~9~82.5)	Ground clearance	0.26m (FRAME)
Single line speed (hoist up)		Max. speed	54m/h
Main winch	120m/min (at the 5th layer)	Min. turning radius	2wheel: 10.4m
Auxiliary winch	110m/min (at the 3rd layer)		
Single line speed (hoist down (reference))		4wheel: 5.7m	
Main winch	normal 120m/min (at the 5th layer)	Drive system	4x4/4x2
high-speed 170m/min (at the 5th layer)		Gradability	(tan δ) 66%
Auxiliary winch	normal 110m/min (at the 3rd layer)	Tires	445/80R25
high-speed 150m/min (at the 3rd layer)		Tire inflation	700kPa (7.00kg/cm ²)
Slewing speed	2.6min ⁻¹ (rpm)		
Outrigger extended width			
Maximum	5.2m		
Mode	4.8m, 4.4m, 3.2m		
Minimum	1.7m		
Outrigger longitudinal interval	5.385m		
Outrigger foot size	φ0.55m(φ10m)		
Tail swing radius	2.39m		
Max load on outrigger foot	18.7t		
Wire rope			
Main winch	14mm dia x 155m length		
Auxiliary winch	12mm dia x 35m length		

Changes

Section	Item	Previous Data	Updated Data
Crane	Plant Number	NF775	U145

CraneSafe®

Wire Rope Certificate

Certificate No:
RTC R.1 214462-15.2

Company Name: Metcalf Crane Services Pty Ltd
Crane Make & Model: Tadano GR-200E-3-00101

Crane Serial No.: 527419
Year of Manufacture: 2022

Length of Rope: 155.00m
Rope Construction: Tokyo ropes
Surface Finish: Uncoated
Direction of Rope Lay: Ordinary Right Hand Lay
Decision: Pass

Wire Rope Application: Main Hoist
Rope Termination (End 1): Wedge Type Socket
Rope Termination (End 2): Wedge Type Socket
Rope Diameter: 14.00mm



Position Inspected (approx. metres)		10	29	48	67	86	105	145
Number of Visible Wire Breaks (over a length of 6x the rope's dia) AS2759-2004 Clause 14.4		0	0	0	0	0	0	0
Degree of Damage and Deformation of Rope AS2759-2004 Clause 14.13		0	0	0	0	0	0	0
Abrasion of Outer Wires AS2759-2004 Clause 14.9	Degree of Deterioration	0	0	0	0	0	0	0
Corrosion AS2759-2004 Clause 14.8	Degree of Deterioration	0	0	0	0	0	0	0
Reduction of Rope Diameter AS2759-2004 Clause 14.9	Measurement (mm)	14.50	14.60	14.50	14.50	14.50	14.50	14.50
	Measurement 90° (mm)	14.50	14.50	14.50	14.50	14.50	14.50	14.50
Additional Comments								

Degree of Deterioration:

1 = slight, 2 = medium, 3 = high, 4 = very high, 5 = discard

At time of inspection, the rope measurements and construction was in accordance with the requirements of AS2759 - 2004 Section 13 and the operators manual supplied with the crane.

Date Inspected: 18 May 2026
Date Issued: 29/05/2026

John Carroll
Assessor No: VIC1017

CraneSafe®



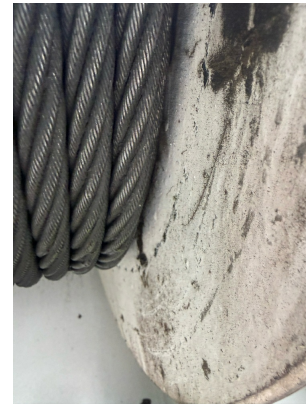
Accreditation no. 19898

Company Name: Metcalf Crane Services Pty Ltd
Crane Make & Model: Tadano GR-200E-3-00101

Crane Serial No.: 527419
Year of Manufacture: 2022

Length of Rope: 85.00m
Rope Construction: Tokyo rope
Surface Finish: Uncoated
Direction of Rope Lay: Ordinary Right Hand Lay
Decision: Pass

Wire Rope Application: Aux Hoist
Rope Termination (End 1): Wedge Type Socket
Rope Termination (End 2): Wedge Type Socket
Rope Diameter: 14.00mm



Position Inspected (approx. metres)		10	19	28	37	46	55	75
Number of Visible Wire Breaks (over a length of 6x the rope's dia) AS2759-2004 Clause 14.4		0	0	0	0	0	0	0
Degree of Damage and Deformation of Rope AS2759-2004 Clause 14.13		0	0	0	0	0	0	0
Abrasion of Outer Wires AS2759-2004 Clause 14.9	Degree of Deterioration	0	0	0	0	0	0	0
Corrosion AS2759-2004 Clause 14.8	Degree of Deterioration	0	0	0	0	0	0	0
Reduction of Rope Diameter AS2759-2004 Clause 14.9	Measurement (mm)	14.40	14.50	14.50	14.50	14.50	14.50	14.40
	Measurement 90° (mm)	14.50	14.50	14.40	14.50	14.50	14.50	14.50
Additional Comments								

Degree of Deterioration:

1 = slight, 2 = medium, 3 = high, 4 = very high, 5 = discard

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CraneSafe®



Accreditation no. 19898

Company Name: Metcalf Crane Services Pty Ltd
Crane Make & Model: Tadano GR-200E-3-00101

Crane Serial No.: 527419
Year of Manufacture: 2022

Item Inspected		
AS1418.5-2013 Annex K.1		
Hook Block	MANUFACTURERS ID no.	SH010120
	FORM OF HOOK	Single
	NOMINAL LIFTING LOAD	3200kg
	MASS	50kg
AS1418.5-2013 Annex K.3		
Sheave	NUMBER OF SHEAVES	N/A
	ROPE DIAMETER	N/Amm
	KIND OF MATERIAL	N/A
	GROOVE WEAR	N/A
	ROTATING / BEARING	N/A
	BRUISING	N/A
	CRACKS	N/A
	CHIPS	N/A
AS1418.5-2013 Annex K.2		
Lifting Hook	WEAR	☒
	CRACKS	☒
	DEFORMATION	☒
	SAFETY LATCH	☒
	SWIVEL	☒
	BEARING	☒
	HOOK BRUISING	☒
	Y - Y MEASUREMENT	100mm
AS1418.5-2013 Clause 4.2.13		



At time of Inspection, the hook block was in accordance with the requirements of AS1418 Part 5 2013 and the load charts supplied with the crane.

Date Inspected: 18 May 2026
Date Issued: 29/05/2026

John Carroll
Assessor No: VIC1017

Hook Block Certificate

Certificate No:
RTC HB.2 214462-15.2

Accreditation no. 19898

Company Name: Metcalf Crane Services Pty Ltd
Crane Make & Model: Tadano GR-200E-3-00101

Crane Serial No.: 527419
Year of Manufacture: 2022

Item Inspected		
AS1418.5-2013 Annex K.1		
Hook Block	MANUFACTURERS ID no.	M-82-8-20
	FORM OF HOOK	Single
	NOMINAL LIFTING LOAD	20000kg
	MASS	175kg
AS1418.5-2013 Annex K.3		
Sheave	NUMBER OF SHEAVES	x3
	ROPE DIAMETER	14mm
	KIND OF MATERIAL	Metal
	GROOVE WEAR	☒
	ROTATING / BEARING	☒
	BRUISING	☒
	CRACKS	☒
	CHIPS	☒
AS1418.5-2013 Annex K.2		
Lifting Hook	WEAR	☒
	CRACKS	☒
	DEFORMATION	☒
	SAFETY LATCH	☒
	SWIVEL	☒
	BEARING	☒
	HOOK BRUISING	☒
	Y - Y MEASUREMENT	18075mm
AS1418.5-2013 Clause 4.2.13		



At time of Inspection, the hook block was in accordance with the requirements of AS1418 Part 5 2013 and the load charts supplied with the crane.

Date Inspected: 18 May 2026
Date Issued: 29/05/2026

John Carroll
Assessor No: VIC1017

CraneSafe®



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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ROUGH TERRAIN CRANE CERTIFICATE OF ANNUAL INSPECTION AND TESTING

Certificate Number: VIC214462 Green Sticker by CraneSafe Assessment Number: RTC A 214462-15



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

Inspection Date: 18 May 2026

Renewal Date: 20 May 2027

Issued Date: 29 May 2026

COMPANY

Metcalf Crane Services Pty Ltd

ABN 43 076 537 749

PO Box 54 SOMERTON VIC 3062

REPRESENTATIVE

Mr. Tim Metcalf Phone: 03 9308 0044

Email: workshop@metcalfcranes.com.au



Tadano GR-200E-3-00101

ASSESSED BY

John Carroll

Reg No: VIC1017

Phone: 0418 508 870

Email: info@jatco.com.au

COMPANY

Jatco Engineering VIC Pty Ltd

PO Box 260 BALLARAT

VIC 3353

**SUPERSTRUCTURE
HOURS**
2505

SERIAL NUMBER
527419

PLANT NUMBER
U145

YEAR OF MANUFACTURE
2022

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.

John Carroll

Inspection

Inspection in Accordance With

☐ AS2550.1 & AS2550.5 ☐ EN (FEM&ISO) ☐ JIS ☒ Codes of Practice ☐ Manufacturer's Instructions.

Comments



ROUGH TERRAIN CRANE LOAD INDICATOR CERTIFICATION

Certificate Number: VIC214462 Green Sticker by CraneSafe Assessment Number: RTC A 214462-15



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

Inspection Date: 18 May 2026

Renewal Date: 20 May 2027

Issued Date: 29 May 2026

Tadano GR-200E-3-00101

MACHINE HOURS
2505

SERIAL NUMBER
527419

PLANT NUMBER
U145

YEAR OF MANUFACTURE
2022

COMPANY

Metcalfe Crane Services Pty Ltd

ABN 43 076 537 749

PO Box 54 SOMERTON VIC 3062

REPRESENTATIVE

Mr. Tim Metcalfe Phone: 03 9308 0044

Email: workshop@metcalfecranes.com.au

ASSESSED BY

John Carroll

Reg No: VIC1017

Phone: 0418 508 870

Email: info@jatco.com.au

COMPANY

Jatco Engineering VIC Pty Ltd

PO Box 260 BALLARAT

VIC 3353

RATED CAPACITY INDICATOR (RCI)

Load Chart Reference Number GR 200EX

PRINTED CHART - NO LOAD

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	N/A	N/A
Boom Length, m	27.50	27.50
Radius, m	10.00	10.00
Load, kg	26.00	2,600.00

RATED CAPACITY LIMITER (RCL)

Load Chart Reference Number ISO GR-200EX

RATED LOAD - BOOM FULLY EXTENDED

	Rated Capacity Indicator	Measured
Radius, m	21.40	21.40
Load, kg	2,200.00	1,951.00

RATED LOAD IN STABILITY

	Rated Capacity Indicator	Measured
Radius, m	21.40	21.40
Load, kg	2,200.00	1,951.00

LINE PULL TEST

	Rated Capacity Indicator	Measured
Load, kg	11,600.00	12,097.00

WINCH BRAKE TEST

	Rated Capacity Indicator	Measured
Load, kg	11,600.00	12.10

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

John Carroll

Load Chart Reference Number

ISO GR-200EX RATED

ON OUTRIGGERS FULLY EXTENDED 5.2m SPREAD 360° ROTATION (Unit: x 1000kg)							ON OUTRIGGERS MD 360° ROTATION						
L(m)	R(m)	6.5	10.7	14.9	19.1	23.3	27.5	L(m)	R(m)	6.5	10.7	14	
2.5	20.0	12.0	9.0	7.0				2.5	20.0	12.0	9.0		
3.0	16.0	12.0	9.0	7.0				3.0	16.0	12.0	9.0		
3.5	14.0	12.0	9.0	7.0	5.0	3.5		3.5	14.0	12.0	9.0		
4.0	12.5	12.0	9.0	7.0	5.0	3.5		4.0	12.5	12.0	9.0		
4.5	11.7	11.1	9.0	6.6	4.95	3.5		4.5	11.7	11.1	9.0		
5.0	(4.4m)	10.25	8.9	6.35	4.7	3.5		5.0	(4.4m)	10.2	8.9		
5.5		9.4	8.2	6.3	4.4	3.35		5.5		9.05	8.2		
6.0		8.8	7.6	6.2	4.2	3.2		6.0		8.4	7.65		
7.0		6.75	6.5	5.8	4.0	2.95		7.0		6.5	5.8		
8.0		5.05	4.95	5.15	3.9	2.8		8.0		4.3			
9.0		4.35	3.9	4.3	3.7	2.75		9.0		3.7			
10.0		(8.6m)	3.1	3.45	3.3	2.65		10.0		(8.6m)			
11.0			2.5	2.85	3.05	2.4		11.0					
12.0			2.0	2.35	2.65	2.2		12.0					
13.0			1.7	1.95	2.2	2.05		13.0					
14.0			(12.8m)	1.6	1.85	1.9		14.0					
15.0				1.35	1.55	1.7		15.0					
16.0				1.15	1.3	1.45		16.0					
17.0				0.95	1.1	1.25		17.0					
18.0					0.95	1.1		18.0					
19.0					0.75	0.95		19.0					
20.0					0.65	0.8		20.0					
22.0					0.5	0.5		22.0					
24.0					(21.2m)	0.35		24.0					
A(°)					0°			A(°)					

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Line Pull Test

ON RATED LIFTING CAPACITIES

STATIONARY (Unit: x 1,000kg)	Rim	360° Rotation	ON RUBBER	Rim	360° Rotation	CREEP (Unit: x 1,000kg)	Rim	360° Rotation		Rim	360° Rotation																								
Over Front	6.5	10.7	14.9	19.1	23.3	27.5	Over Front	6.5	10.7	14.9	19.1	23.3	27.5	Over Front	6.5	10.7	14.9	19.1	23.3	27.5	Over Front	6.5	10.7	14.9	19.1	23.3	27.5	Over Front	6.5	10.7	14.9	19.1	23.3	27.5	
3.0	3.2	3.1	3.1	3.25	3.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6		
4.0	2.8	2.7	2.7	2.85	2.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
4.5	2.55	2.4	2.35	2.5	2.5	1.3	1.1	1.05	1.3	1.7	1.6	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9		
5.0	(4.4m)	2.1	2.05	2.2	(4.4m)	0.8	0.75	1.1	(4.4m)	1.2	1.4	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7		
5.5		1.85	1.8	2.0		0.8	0.75	1.1	(4.4m)	1.4	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
6.0		1.6	1.6	1.75		0.5	0.45	0.85		1.2	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		
7.0		1.25	1.25	1.4						0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
8.0		1.0	0.9	1.1						0.65	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
9.0										0.5	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
10.0										0.4	0.35	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
11.0										0.25	0.4																								
12.0										0.25																									
13.0										0.15																									
A(°)																																			

L: Boom length
R: Load radius
A: Minimum boom angle (°)
for indicated length (no load)

NOTES

- Read lifting capacities based on crane safety are according to ISO 4305.
- Use is authorized. Consider the lifting and working conditions etc. when actually working.
- The weight of handling device such as hook blocks (75kg for 3200kg capacity, 50kg for 3200kg capacity) shall be included in the load and must be included in the lifting capacities.
- Read lifting capacities are based on actual working radius (increased by the net boom deflection) always refer to working radius.
- Standard number of part lines for each boom length is as shown below. Load per line should not exceed 2500kg for main winch and 3300kg for auxiliary winch.

Boom length	6.5m	10.7m	14.9m	19.1m	23.3m	27.5m
No. of parts of line	4	4	4	4	4	4

- Operate the crane in one-hand area only when the full, over-front indicator is lit. Over-front area is where the boom is within 2 degrees in front of chassis.
- For lifting capacity of single line, deduct the weight of the load handling equipment from the rated lifting capacity of the boom.
- For the lifting capacity of single line, the net capacity shall not exceed 3300kg including the main boom hook mass attached to the boom.
- High-speed down hoisting and on the line with JIB is not permitted. Maximum permissible boom length is 19.1m.
- CREEP is enabled for crane not to travel more than 50m in any 20 minutes period and to travel at the speed of less than 1.5km/h.
- For CREEP operation, set Drive select switch to "LAC" and set gear shift switch to "1".
- During "CREEP" status, travel slowly and keep the lifting load as close to the ground as possible and especially avoid any abrupt steering, accelerating or braking.
- Do not operate the crane while carrying the load.

Load



Load



RCL Warning Lights and Alarms



Rated Load - Boom Fully Extended



Load



Load

