



Accreditation no. 19898

ARTICULATED MOBILE CRANE

Annual Report

Company	C & C Construction Services	ABN	82 780 055 822
Address	1 Sir Henry Parkes Avenue MEDOWIE	Representative	Mr Peter Ritters
State	ACT	Phone	02 4982 8257
Postcode	2318	Email	pritters@cccs.net.au

Make	Franna
Model	AT 22
Serial Number	22002
Plant Number	FCS014
Year of Manufacture	2013
Design Registration Number	Q27576
Plant Registration	MC 6-174659/13/0
Road Registration	826TIN
Max Load	22000kg
Number of Axles	2
Lower Hours	7071
Kilometers	971
New Odometer	Yes



Country where assessed	Australia	State	QLD
Operators Manual in English	OK		
Log Book	OK		
Maintenance Records	REMEDIED		
Crane Safety Manual	No		

Assessed By	Joe Finato	Company	QCM - Qld Crane Maintenance
Reg. No.	QLD1055	Address	21 Pioneer Street MACKAY
Phone	0437 018 665	State	QLD
Email	qcm@ehw.net.au	Postcode	4740

Initial Inspection Date	14/11/2019	Issued Date	17/12/2019
Re-Inspection Date	17/12/2019	Expiry Date	17/12/2020

Conforms to Checklist Yes

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.

Actions Required - NA

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
No. 1 Section	OK
No. 2 Section	OK
No. 3 Section	OK
No. 4 Section	N/A
Length Markings	N/A
Rope Compensation System	OK
Hook Lift Lugs and Tonnage Decals	OK
Head Sheaves and bearings	OK
Idler Sheave and Bearing	OK
Rooster Sheave and Bearing	N/A
Extension / Fly Jib Mounts	OK
Machinery Hook	OK
Boom Lift Cylinders	OK
Lock Valve(s)	OK
Extension Cylinders	OK
Lock Valve(s)	OK
Extend Ropes / Chains	OK
Retract Ropes / Chains	OK
Boom Length Recoil Drum(s)	OK
Boom Angle Indicator	OK
Extension / Fly Jib	N/A
Extension Sheaves and Bearings	N/A
<i>ANTI-TWO BLOCKS</i>	
Boom Head	N/A
Rooster Sheave	N/A
Extension / Fly	N/A
<i>HOOK BLOCKS - WITH CRANE</i>	
Description	Two Sheave Block
Branded WLL (kg)	OK 16800kg
Manufacturers Identification	OK - BBT15349
Safety Latches	N/A
Sheaves and Bearings	OK - Two
Swivel	N/A
Branded with Tare Weight (kg)	OK 180kg
<i>HOOK BLOCKS - WITH CRANE No. 2</i>	
Description	Machinery Hook
Branded WLL (kg)	OK 10000kg
Manufacturers Identification	OK - BBT14823
Safety Latches	OK
Sheaves and Bearings	N/A
Swivel	N/A
Branded with Tare Weight (kg)	OK 15kg
<i>HOOK BLOCKS - WITH CRANE No. 3</i>	
Description	Swivel hook
Branded WLL (kg)	OK 25000kg
Manufacturers Identification	OK - BBT15372
Safety Latches	OK
Sheaves and Bearings	N/A
Swivel	OK
Branded with Tare Weight (kg)	N/A kg

FRAME AND CABIN

Frame	OK
Counterweight Attachment - Security	N/A
Counterweight Hazard Striping	OK
Boom Mounting Lugs	OK
Boom Mounting Pins	OK
Lift Cylinder Lugs	OK
Lift Cylinder Pins	OK
Cab Glass and Mirrors	OK
Sheet Metal / Guards	OK
Seat and Assembly including Seat Belts	OK
Decals / Signs - In English	OK
Load Charts in English as per AS1418	OK
Side Slope Deration Chart	N/A
Control Levers - Clearly Marked	OK
Control Cables / Pilot Hoses	OK
Heater	OK
Air Conditioner	OK
Gauges	OK
Anti-Two block Alarms	OK
Horn	OK
Access Steps	OK
Doors and Locks	OK
Crane Level Indicator	OK
Front Wiper	OK
Roof Wiper	N/A
Windscreen Wiper / Washer	OK
Switches and Relays	OK
Rotating Beacon(s)	OK

DRIVE SYSTEMS

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

CHASSIS INSPECTION

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

HYDRAULIC SYSTEM

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

AIR SYSTEMS

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

ELECTRICAL SYSTEMS

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

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MAIN WINCH

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

FUNCTIONAL TESTS - MAIN WINCH*Rated Capacity Indicator (RCI)*

Load Chart Reference Number T133750B
Printed Chart - No Load OK

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	42.00°	42.80°
Boom Length, m	5.67m	5.70m
Radius, m	2.00m	2.00m
Load, kg	16800kg	16700kg

Rated Capacity Limiter (RCL)

Load Chart Reference Number T133750B
Rated Load - Boom Fully Extended OK - Total suspended weight is 6020kg.

	Rated Capacity Indicator	Measured
Radius, m	5.10m	5.10m
Load, kg	6300kg	5710kg

Rated Load in Stability OK

	Rated Capacity Indicator	Measured
Radius, m	5.10m	5.10m
Load, kg	6300kg	5710kg

Line Pull Test OK - Winch line pull is 4200kg.

	Rated Capacity Indicator	Measured
Load, kg	4800kg	4800kg

Winch Brake Test OK

	Rated Capacity Indicator	Measured
Load, kg	4800kg	4800kg

Overload Warning Lights and Alarms OK
Rated Capacity Limiter Fitted (Overload Limiter) OK

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CRACK INSPECTION

No Cracks Detected

OK

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

ADDITIONAL ANNUAL INSPECTIONS STIPULATED BY THE MANUFACTURER - NA

SITE REQUIREMENTS - NA

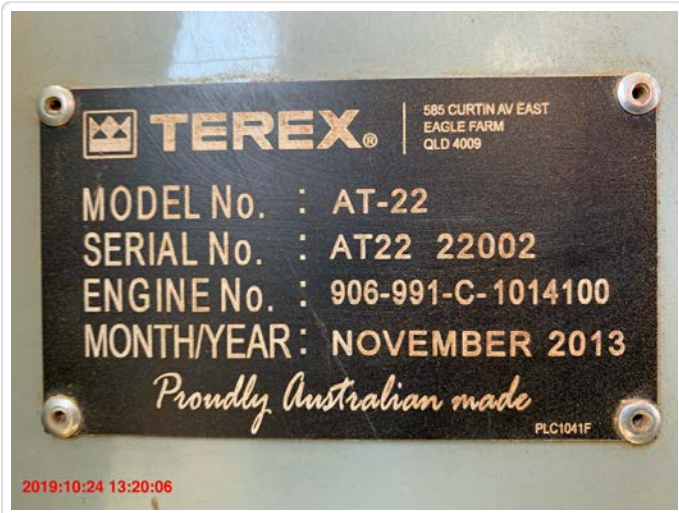
APPENDICES

CRANE

Model



Serial Number



Lower Hours



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ASSESSMENT

Log Book

EQUIPMENT PRE-START CHECK HV 45532

OPERATOR Dean FLEET No. 014 SITE Brown
 SMU/ODOMETER START 967 FINISH _____ SHIFT D A N
 PERCUSSION Hour Meter 7066 RH _____ DATE 24-10-19

CRITICAL CHECKS
 If any of the following critical components are found to be defective the equipment is to be tagged Out of Service and reported immediately. The equipment must not be operated until the fault has been rectified.

<input checked="" type="checkbox"/> Emergency Shutdown / Isolation	<input checked="" type="checkbox"/> Mirrors / Windows / Washers
<input checked="" type="checkbox"/> Tyres / Rims / Studs / Tracks	<input checked="" type="checkbox"/> Emergency Exits / Door operation
<input checked="" type="checkbox"/> Fuel System Hose Condition / Leaks	<input checked="" type="checkbox"/> Operator Warning Systems / Alarms
<input checked="" type="checkbox"/> Hydraulic System Hose Condition / Leaks	<input checked="" type="checkbox"/> Communications / Two Way / Fleet Management System
<input checked="" type="checkbox"/> Fire Extinguishers Tag / Date	<input checked="" type="checkbox"/> Service brake / Retarder
<input checked="" type="checkbox"/> Fire Suppression Systems	<input checked="" type="checkbox"/> Emergency / Park brake
<input checked="" type="checkbox"/> Seating / Seatbelts	<input checked="" type="checkbox"/> Steering / Brake Oil Reservoirs
<input checked="" type="checkbox"/> Implement Lock Outs	<input checked="" type="checkbox"/> Horn / Reverse Alarm
<input checked="" type="checkbox"/> Broken / Damaged Grease Lines	<input checked="" type="checkbox"/> Steps / Handrails
<input checked="" type="checkbox"/> Collision Avoidance system operational	

FLUID LEVELS

<input checked="" type="checkbox"/> Fuel Level	<input checked="" type="checkbox"/> Engine Oil
<input checked="" type="checkbox"/> Hydraulic Oil	<input checked="" type="checkbox"/> Steering Oil / Brake Oil
<input checked="" type="checkbox"/> Transmission Oil	<input checked="" type="checkbox"/> Engine Coolant (sight glass check only)

CONDITIONAL CHECKS

<input type="checkbox"/> Tray / Bucket / GET	<input checked="" type="checkbox"/> Air Filter Restriction Indicator
<input checked="" type="checkbox"/> Stabiliser Jacks / Suspension System	<input checked="" type="checkbox"/> Exhaust System Leaks
<input checked="" type="checkbox"/> Signs / Labels / SWL	<input checked="" type="checkbox"/> Air Leaks
<input checked="" type="checkbox"/> Booms / Carousels / Pin Retainers	<input checked="" type="checkbox"/> Visible Wiring Condition
<input checked="" type="checkbox"/> Machine Attachment / Chassis Cracks	<input type="checkbox"/> First Aid Kit
<input checked="" type="checkbox"/> Lifting Attachments / Slings / Shackles / Hooks	<input type="checkbox"/> Cabin Condition – cleanliness

OPERATIONAL CHECKS

<input checked="" type="checkbox"/> Drain water from air tanks	<input checked="" type="checkbox"/> Operational Functions
<input checked="" type="checkbox"/> Vehicle Loading Crane (E.g. Kevrek)	<input type="checkbox"/> Air Conditioning
<input type="checkbox"/> Lights / Warning Light / Beacon	

UNDERGROUND SPECIFIC CHECKS

<input type="checkbox"/> Long Life Self-Rescuer	<input type="checkbox"/> Jumbo Zoom Tube Cap Screws
<input type="checkbox"/> Basket Drift (max 50mm in 10 min)	

DEFECT LIST

Defect/Problem	Supervisor Comment	Date
<u>DRIVING SEAT RISKS + FALLS</u> <u>NON STOP</u>		<u>24-10</u>

Start of Shift: walk around damage identified

Time	Signature
<u>NIL</u>	<u>[Signature]</u>

End of Shift: walk around damage identified

Time	Signature
<u>ANNUAL CRANE INSPECTION 24-10-19</u>	<u>[Signature]</u>

Signed _____ OPERATOR Signed _____ OPERATIONS SUPERVISOR

2019:10:24 13:26:19

BOOM AND ATTACHMENTS

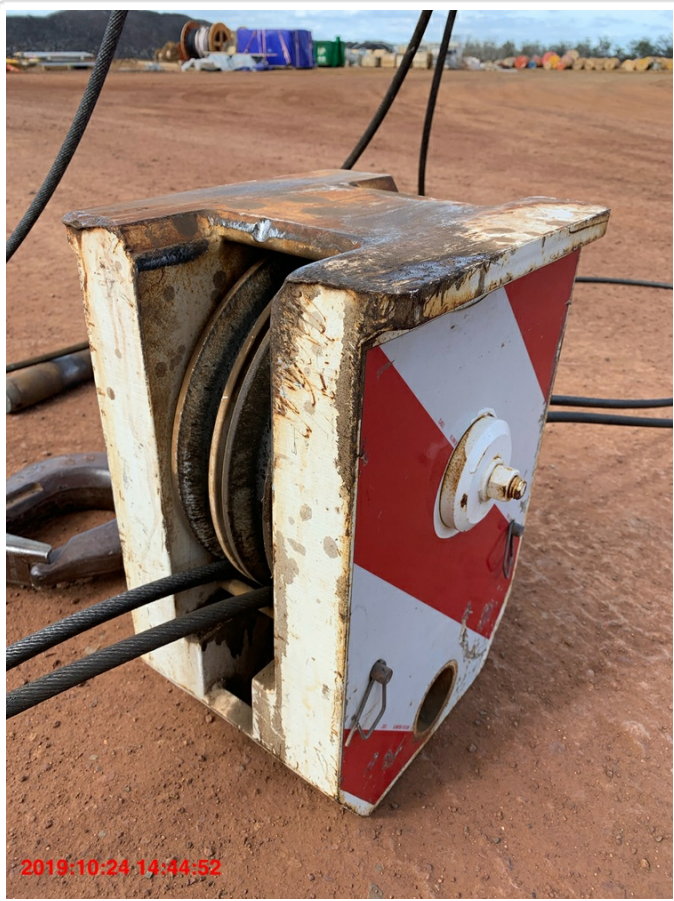
No. 2 Section



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Description



Manufacturers Identification



Description



Manufacturers Identification



Description



Manufacturers Identification



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FRAME AND CABIN



Switches and Relays

DRIVE SYSTEMS

Water Temperature Gauge
Coolant temperature gauge tested and functioning okay.

CHASSIS INSPECTION



Drive Lines

Articulation Joint
Articulation measured 0.06mm axial clearance.

HYDRAULIC SYSTEM

Main Pump(s)



AIR SYSTEMS



Compressor

ELECTRICAL SYSTEMS

Hazard Lights
Hazard lights tested and okay.

MAIN WINCH

Leaks



Correct Assembly and Connection of Hoist Rope Anchor

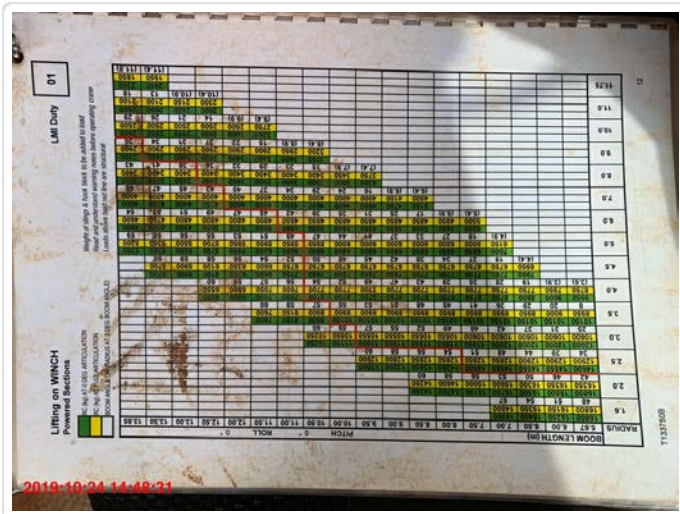


FUNCTIONAL TESTS - MAIN WINCH

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Load Chart Reference Number



Rated Load - Boom Fully Extended - Load RCI



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Rated Load - Boom Fully Extended - Load Measured



Line Pull Test - Load RCI



Line Pull Test - Load Measured





Farrelly Construction Services

Farrelly Construction Services
 ABN 19 136 719 394
 PO BOX 284
 RUTHERFORD, NSW, 2320
 Phone: 02 4932 4771
 Email: admin@fpcs.com.au
 Website: www.fpcs.com.au

FCS SERVICE REPORT

Service No. DB 0247

CUSTOMER: Fcs
 ADDRESS:
 CONTACT PHONE:

MACHINE MAKE: TEREX
 MODEL: AT22
 SERIAL NUMBER: FCS-014 22002
 HOUR METER: 6435

A. General Maintenance - Visual Inspection

	OK	POTENTIAL	URGENT	Comments
1 Oil Leaks	/			
2 ROPS Protection	/			
3 Main Frame	/			
4 Boom Arms	/			
5 Bob Tach (wedges & linkage)	/	/		
6 Tyre/Track Condition	/			
7 Axles (Leaks)	/			

B. Operational Checks

	1	2	3	Comments
8 Throttle	/			
9 Pedal Linkage & Auxillary	/			
10 Steering Creep (return to Neutral)	/			
11 Exhaust Smoke	/			
12 Check Preheaters	/			
13 Indicator Lights	/			
a Hydro Filter	/			
b Engine Oil Pressure	/			
c Engine Temperature	/			
d Alternator Charge	/			
e Hourmeter	/			
14 Check Ignition Switch	/			
15 Fuel Gauge	/			
16 Lights	/			

C. General Maintenance

	1	2	3	Comments
17 Check Engine Oil Level	/			
18 Check Engine Oil Leaks	/			
19 Alternator (check mount)	/			
20 Check Alternator Belt	/			
21 Check Angle Drive Belt	/	/		
22 Check Pump Drive Belt	/	/		
23 Inspect Engine Mounts	/			
24 Starter Mount Bolts	/			
25 Empty Water Trap (if applic)	/			
26 Battery (water & terminals)	/			
27 Inspect Bob Tach Lever Operation	/			
28 Check Chaincase Oil Level	/	/		
29 Check Hydraulic Fluid Level	/			

D. Last Filter Change Date

	OK	POTENTIAL	URGENT	Comments
30 Engine	/			
31 Fuel	/			
32 Hydrostatic	/			
33 Air Primary	/			
34 Air Secondary	/			

E. Cooling System

	1	2	3	Comments
35 Check Coolant Level	/			
36 Fan Blade Condition (if applic)	/			
37 Hose Connections	/			
38 Water Pump (leaks)	/			

F. Roll Up Cab

	1	2	3	Comments
39 Check Pump Mount	/	/		
40 Check Steer Bolts	/	/		
41 Check for Leaks	/	/		

G. Cylinder Check

	1	2	3	Comments
42 Check Lift/Tilt Cylinders For Leaks	/			
43 Check Bucket Cylinder For Leaks	/			
44 Check Hoses For Wear	/			

H. Safety Check

	1	2	3	Comments
45 Seat Bar Operation	/	/		
46 Lift & Tilt Pedal Locks	/			
47 Parking Brake	/			
48 Lift Override Valve	/			
49 Seat Belts (damage/latch operation)	/			
50 ROPS Fasteners Secure	/			
51 Decals	/			

Comments
500 HR SERVICE
LOAD LIGHT REPLACED

INSPECTED BY: DB DATE: 23-5-19

CUSTOMER SIGNATURE: _____ DATE: _____



Accreditation no. 19898

Certificate No: NSW143639

CraneSafe®

CERTIFICATE OF ANNUAL INSPECTION AND TESTING

Articulated Mobile Crane

Inspection Date: 17/12/19

Renewal Date: 17/12/2020

Issued Date: 17/12/2019

Location of Inspection: Byerwen

Crane Owner: C & C Construction Services

Address: 1 Sir Henry Parkes Avenue MEDOWIE, 2318, NSW, Australia

Crane Make: Franna

Crane Model: AT 22

Crane Serial Number: 22002

YOM: 2013

Hours: 7071



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

Codes of Practice Manufacturer's Instructions.

Inspection Comments:

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: Joe Finato

CraneSafe Assessor No.: QLD1055

CraneSafe Assessment No: AC A 143639-10

Accredited for compliance with ISO/IEC 17020

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Certificate No: NSW143639



Accreditation no. 19898

LOAD INDICATOR CERTIFICATION
Articulated Mobile Crane

Annual Inspection Date: 17/12/2019

Crane Owner: C & C Construction Services

Address: 1 Sir Henry Parkes Avenue MEDOWIE, 2318, NSW, Australia

Crane Make: Franna

Crane Model: AT 22

Crane Serial Number: 22002

YOM: 2013 **Hours:** 7071

Rated Capacity Indicator (RCI)

Load Chart Reference Number

T133750B

Printed Chart - No Load

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	42.00	42.80
Boom Length, m	5.67	5.70
Radius, m	2.00	2.00
Load, kg	16,800.00	16,700.00

Rated Capacity Limiter (RCL)

Load Chart Reference Number

T133750B

Rated Load - Boom Fully Extended

Rated Load in Stability

	Rated Capacity Indicator	Measured
Radius, m	5.10	5.10
Load, kg	6,300.00	5,710.00

	Rated Capacity Indicator	Measured
Radius, m	5.10	5.10
Load, kg	6,300.00	5,710.00

Line Pull Test

	Rated Capacity Indicator	Measured
Load, kg	4,800.00	4,800.00

Winch Brake Test

	Rated Capacity Indicator	Measured
Load, kg	4,800.00	4,800.00

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: Joe Finato

CraneSafe Assessor No.: QLD1055

CraneSafe Assessment No.: AC A 143639-10

Issued Date.: 17/12/2019

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SUPPORTING INFORMATION

Load Chart Reference Number

01

LMI Duty

Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

RADIUS	BOOM LENGTH (m)		PITCH		ROLL	
	5.67	6.00	6.50	7.00	7.50	8.00
11.75						
11.0						
10.0						
9.0						
8.0						
7.0						
6.0						
5.0						
4.5						
4.0						
3.5						
3.0						
2.5						
2.0						
1.6						

Lifting on WINCH
Powered Sections

LMI Duty

RC (kg) AT 0 DEG ARTICULATION
RC (kg) AT FULL ARTICULATION
BOOM ANGLE OR RADIUS AT 0 DEG BOOM ANGLE

13.85 13.00 12.50 12.00 11.50 11.00 10.50 10.00 9.50 9.00 8.50 8.00 7.50 7.00 6.50 6.00 5.67

01

LMI Duty

Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

RADIUS	BOOM LENGTH (m)		PITCH		ROLL	
	5.67	6.00	6.50	7.00	7.50	8.00
11.75						
11.0						
10.0						
9.0						
8.0						
7.0						
6.0						
5.0						
4.5						
4.0						
3.5						
3.0						
2.5						
2.0						
1.6						

Lifting on WINCH
Powered Sections

LMI Duty

RC (kg) AT 0 DEG ARTICULATION
RC (kg) AT FULL ARTICULATION
BOOM ANGLE OR RADIUS AT 0 DEG BOOM ANGLE

13.85 13.00 12.50 12.00 11.50 11.00 10.50 10.00 9.50 9.00 8.50 8.00 7.50 7.00 6.50 6.00 5.67

2019-10-24 14:48:31

T133750B

Rated Load - Boom Fully Extended - Load RCI



Rated Load - Boom Fully Extended - Load Measured



2019:10:24 16:13:00

Line Pull Test - Load RCI



Line Pull Test - Load Measured



Lifting on WINCH
Powered Sections

LMI Duty

01

Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

RC (kg) AT 0 DEG ARTICULATION
RC (kg) AT FULL ARTICULATION
BOOM ANGLE OR RADIUS AT 0 DEG BOOM ANGLE

--	--	--

RADIUS	BOOM LENGTH (m)												ROLL						
	5.67	6.00	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	13.85
1.6	16800	16250	16150	15350	14800														
2.0	16800	16800	16350	16300	15700	15100	14700	14350											
2.5	14800	14550	14550	14500	14250	13850	13200	13000											
3.0	10600	10600	10600	10600	10600	10600	10550	10550	10550	10550	10550	10550	10250						
3.5	8950	9000	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950	8950
4.0	8750	9000	8800	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750
4.5		7900	7700	7700	7700	7700	7650	7650	7650	7650	7650	7650	7650	7650	7650	7650	7650	7650	7650
5.0		6150	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
6.0		5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200
7.0		4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
8.0		3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800
9.0		3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300
10.0		2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900
11.0		2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
11.75		2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350

T133750B

2019:10:24 14:48:31

Rated Load - Boom Fully Extended - Load RCI



Rated Load - Boom Fully Extended - Load Measured



2019:10:24 16:13:00

Line Pull Test - Load RCI



Line Pull Test - Load Measured

