HAMMERHEAD / FLAT TOP TOWER CRANE

Report

HHTC A 163372-11

Accreditation no. 19898

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: 05/01/2022

Conforms to Checklist: Yes

Issued Date: 10/01/2022

Expiry Date: 20/02/2023

COMPANY
Rigcon Engineering Pty Ltd
ABN 68 069 902 709
P O Box 364 ALTONA NORTH VIC 3025

REPRESENTATIVE
Mr Jamie Williams
03 9398 5155
jwilliams@rigcon.com.au

ASSESSED BY
Ken Darby
Reg No. SA1126
0459 056 615
ken.darby@pcni.com.au

COMPANY
Precision Crane NDT Inspections Pty Ltd
PO Box 3225 MORWELL GMC
VIC 3841

Wolffkran 7532

UPPER HOURS
17198

YOM
2006

SERIAL NUMBER
31100465

PLANT NUMBER
465

MAX LOAD
8300 KG

DESIGN REGISTRATION NUMBER
CR6-119532/09

PLANT REGISTRATION NUMBER
NOT APPLICABLE

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	Yes

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.

This inspection does not include any personnel hoists or other foreign attachments outside the design of manufacture.

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

Erection Inspection

Site Name & Location	Williamstown rd. Spotswood	**Height at Time of Inspection (m)**	36.00m
Power Source	Generator	**Prime Responsibility for Crane Erection & Testing**	Rigcon Engineering
Base	Non Reusable Fixing Angles (Starter Legs)	**Electrician for all Electrical Work**	National Site Services
Base Other		**Foundation Engineer**	Andrew Baigent
Jib Length (m)	50.00m	**View Crane Standing / Climbing Documentation**	Yes
Base Ballast (kg)	N/A	**Level / Location of Ties / Chocks**	Ground
Counter Jib Ballast (kg)		**View Additional Signage Approval**	Yes
Tower / Mast Configuration	7 x (4.5 x 2.0 x 2.0) TV20		

Tower

Tower Access and Egress	**OK**	**Ladders**	**OK**
Barricades	**OK**	**Protection Device for Ladders**	**OK**
Base Level	**OK**	**Rest Platforms**	**OK**
Condition of Ballast	**N/A**	**Walkways and Landings**	**OK**
Base Counterweight Total Correct	**N/A**	**Building Ties / Chocks**	**OK**
Tower / Mast Vertical	**OK**	**Climbing Frame**	**N/A**
Tower Bolts / Pins	**OK**		

Boom and Attachments

Boom Base Section	**OK**	**Static Line (s)**	**OK**
Boom Foot Pins and Bushings	**OK**	**Guy Ropes and Pins**	**OK**
No. 1 Boom Section	**OK**	**Tie Bars and Pins**	**OK**
No. 2 Boom Section	**OK**	**Cable Rollers - Guards**	**OK**
No. 3 Boom Section	**OK**	**Main Hoist Rope Socket and Pins**	**OK**
No. 4 Boom Section	**N/A**	**Correct Assembly and Connection of Hoist Rope Socket**	**OK**
No. 5 Boom Section	**N/A**	**Correct Hoist Rope Reeving**	**OK**
No. 6 Boom Section	**N/A**	**Condition of Hook Block**	**OK**
Additional Sections	**N/A**	**Trolley Rope Socket and Pins**	**OK**
Boom Tip Section	**OK**	**Correct Assembly and Connection of Trolley Rope Anchor**	**OK**
Sheaves	**OK**	**Correct Trolley Rope Reeving**	**OK**
Walkways and Landings	**OK**	**Condition of the Trolley**	**OK**

Revolving Frame and Cabin

Slip Ring	OK	Cab-Visibility, Attachment, Horn and Seating	OK
Revolving Frame	OK	Crane Operator Communication System	OK
Ladders	OK	Controls as per Australian Standards and COP's	OK
Protection Device for Ladders	OK	Load Charts in English as per AS1418	OK
Walkways and Landings	OK	Load Indicators	OK
Tower Bolts / Pins	OK	Fire Extinguisher	OK
Cab and Mountings	OK		

Slew System

Slew Ring Condition and Functionality	OK	Slew Gearbox & Oil Level	OK
Slew Bearing	OK	Slew Pinion	OK
Slew Bolts	OK	Slew Brake	OK
Slew Motor (s)	OK	Weather Vaning	OK

Counter Jib

Walkways and Landings	OK	Counterweight	OK
Ladders	N/A	Counterjib Counterweight Fastening	OK
Protection Device for Ladders	N/A	Tie Bars and Pins	OK
Counterjib Counterweight Total Correct	OK		

'A' Frame / CatHead

"A" Frame / Cathead	OK	Walkways and Landings	OK
Pins & Bushes	OK	Tie Bars and Pins	OK
Ladders	OK	Sheaves	OK
Protection Device for Ladders	OK		

Hydraulic System

N/A

Electrical System

Isolation Switch	OK	Condition of Electric Wiring	OK
Emergency Stop	OK	Electrical Cabinet (s)	OK
Anemometer	OK	Fire Suppression	N/A
Load Moment Cut-Out	OK	Radio Remote Controls	N/A
Electrical Wiring AS/NZS 3000	OK		

Main Winch

Winch Condition	OK	Main Wire Rope	OK
Gearbox & Oil Level	OK	Condition of Hoist Brake	OK
Leaks	OK	Condition of Secondary Hoist Brake	OK
Winch Attachment, Pins / Bolts	OK	Hoist Upper and Lower Limit Switches	OK
Rope Spooling	OK		

Auxiliary Winch

N/A

Trolley Winch

Winch Condition	OK	Rope Spooling	OK
Gearbox & Oil Level	OK	Trolley Wire Rope	OK
Leaks	OK	Condition of Trolley Brake	OK
Winch Attachment, Pins / Bolts	OK	Trolley In and Out Limit Switches	OK

Functional Tests - Main Winch

Rated Capacity Indicator (RCI)

Load Chart Reference Number CC Plus

Safe Load Indicator - No Load **OK**

	Printed Chart	RCI
Boom Length, m	50.00m	50.00m
Radius, m	45.00m	45.00m
Load, kg	7900kg	7900kg

Rated Capacity Limiter (RCL)

Dynamic Load Test **OK**

	RCI	Measured
Radius, m	31.90m	31.90m
Load, kg	9200kg	9110kg

Rated Load in Stability **OK**

	RCI	Measured
Radius, m	31.90m	31.90m
Load, kg	9200kg	9110kg

Winch Brake Test **OK**

	RCI	Measured
Load, kg	9200kg	9110kg

Overload Warning Lights and Alarms **OK**

Manufacturer Additional

N/A

Site Requirements

N/A

Attachments and Notes

Crane

Serial Number

Upper Hours

Model

Assessment

Log Book

Maintenance Records

Boom and Attachments

Boom Base Section

Correct Assembly and Connection of Trolley Rope Anchor

Correct Assembly and Connection of Hoist Rope Socket

Revolving Frame and Cabin

Protection Device for Ladders

Protection Device for Ladders

Slew System

Slew Motor (s)

Counter Jib

Counterjib Counterweight Total Correct

Electrical System

Isolation Switch

Main Winch

Hoist Upper and Lower Limit Switches

Trolley Winch

Trolley In and Out Limit Switches

Safe Load Indicator - No Load

No load display

Dynamic Load Test

Dynamic Load Test

Accreditation no. 19898

Certificate No: VIC163372

CraneSafe®

CERTIFICATE OF ANNUAL INSPECTION AND TESTING

Hammerhead / Flat Top Tower Crane

Inspection Date: 05/01/22 **Renewal Date:** 20/02/2023 **Issued Date:** 10/01/2022

Location of Inspection: Williamstown Rd. Spotswood

Crane Owner: Rigcon Engineering Pty Ltd

Address: P O Box 364 ALTONA NORTH, 3025, VIC, Australia

Crane Make: Wolffkran
Crane Model: 7532
Crane Serial Number: 31100465
YOM: 2006
Hours: 17198

Inspection in accordance with: ☑ AS2550.1 & AS2550.4 ☐ 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: Ken Darby

CraneSafe Assessor No:: SA1126

CraneSafe Assessment No: HHTC A 163372-11

Accreditation no. 19898

Certificate No: VIC163372

CraneSafe®

LOAD INDICATOR CERTIFICATION

Hammerhead / Flat Top Tower Crane

Annual Inspection Date: 10/01/2022 **Crane Owner:** Rigcon Engineering Pty Ltd
Address: P O Box 364 ALTONA NORTH, 3025, VIC, Australia

Crane Make: Wolffkran **Crane Model:** 7532
Crane Serial Number: 31100465 **YOM:** 2006 **Hours:** 17198

Rated Capacity Indicator (RCI)
Load Chart Reference Number CC Plus
Rated Capacity Limiter (RCL)

Dynamic Load Test

	Rated Capacity Indicator	Measured
Radius, m	31.90	31.90
Load, kg	9,200.00	9,110.00

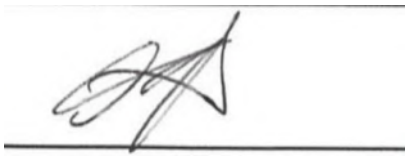
Rated Load in Stability

	Rated Capacity Indicator	Measured
Radius, m	31.90	31.90
Load, kg	9,200.00	9,110.00

Winch Brake Test

	Rated Capacity Indicator	Measured
Load, kg	9,200.00	9,110.00

At the time of test, the load indicator was reading in accordance with the requirements of AS1418.1 & AS1418.4 and the load charts supplied with the crane



Signed:

Printed Name: Ken Darby

CraneSafe Assessor No:: SA1126

CraneSafe Assessment No: HHTC A 163372-11

Issued Date:: 10/01/2022

SUPPORTING INFORMATION

Safe Load Indicator - No Load

Dynamic Load Test

Dynamic Load Test

CERTIFICATE OF PLANT DESIGN REGISTRATION

Occupational Health & Safety Act 2000
Occupational Health & Safety Regulation 2001

ABN: 77 682 742 966
Phone: (02) 4321 5498
Fax: (02) 4325 5094

Registration No: CR 6-119532/09 **ABN:** 64080995204 **Issue Date:** 5/08/2009

Controller: CAELLI CONSTRUCTIONS (VIC) PTY LTD
Trading As: CAELLI CONSTRUCTIONS
Postal Address: PO BOX 21
CRAIGIEBURN
VIC 3064

Plant Type: Crane Original

Model Number/ Trade Name: 7532

Design Description:

Crane Design Type	Tower Crane
Crane Max Rated Capacity (t)	16.5000
Crane Max Radius (m)	75.00
Crane Max Free Height (m)	90.00
Crane Luff Type	Winch
Drawing Number Design	962-3-025157E

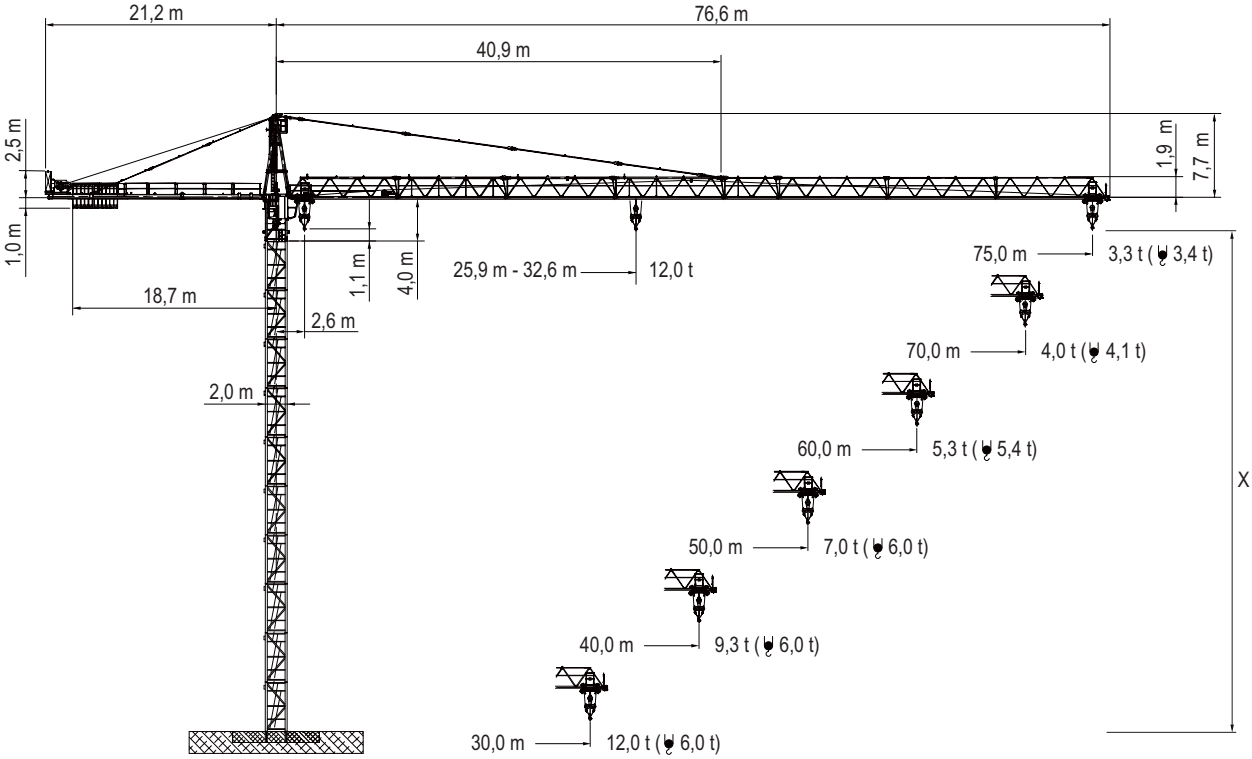
CONDITIONS:

1. This registration applies only to the design described above which has been notified to WorkCover NSW in accordance with the OHS Regulation 2001.
2. The plant owner will require a copy of this certificate. A copy of the certificate must therefore be supplied to the manufacturer so that it can, in turn, be provided to the supplier and owner with the item of plant or equipment.
3. WorkCover NSW reserves the right to audit the registered design at any time to assess compliance with its Acts and Regulations. If an audit is undertaken, detailed information may be requested relating to the design of the plant. Design systems of work and documentation may also be audited. If an audit identifies non-compliance, all plant built to that design may require modifications, and in some cases, may be prohibited from use.
4. This Registration is automatically invalidated if the design is altered to an extent that requires new measures to control risks. A person must not use, or cause or allow plant manufactured to the original design to be used at a workplace unless notification of the alteration, or the prescribed form, has been confirmed by WorkCover NSW.
5. The Registration Number should be quoted in all correspondence to WorkCover regarding this item. Any queries should be addressed to WorkCover's Licensing Unit.

Fee Paid: $ 65.00 **Receipt No:** 05-3064

1 Schedule drawing

1.1 Schedule drawing WOLFF 7532.12cross



Data WOLFF 7532.12

Item	Data
Crane type	BGL GROUP C.0.10.0315
Design	Overhead travelling crane with top slewing trolley jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN 14439 (C25)
Payload torque	max. 3910 kNm
Hoist winch	Hw 645 FU / Hw 675 FU

POWER REQUIRED: min.194 Amp (grid power)
or min. 250 kVa (generated power)

2.1 Table of load carrying capacity WOLFF 7532.12 (6.0t, 2 fall operation)

6.0 t		Operating radius[m]		20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	
JL [m]	75.0	2.6 – 47.9		6.0	6.0	6.0	6.0	6.0	6.0	5.7	5.1	4.6	4.1	3.7	**3.4**	LCC [t]
	70.0	2.6 – 51.5		6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.0	4.5	**4.1**		
	65.0	2.6 – 54.2		6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.9	5.3	**4.8**			
	60.0	2.6 – 55.0		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	**5.4**				
	55.0	2.6 – 55.0		6.0	6.0	6.0	6.0	6.0	6.0	6.0	**6.0**					
	50.0	2.6 – 50.0		6.0	6.0	6.0	6.0	6.0	6.0	**6.0**						
	45.0	2.6 – 45.0		6.0	6.0	6.0	6.0	6.0	**6.0**							
	40.0	2.6 – 40.0		6.0	6.0	6.0	6.0	**6.0**								
	35.0	2.6 – 35.0		6.0	6.0	6.0	**6.0**									
	30.0	2.6 – 30.0		6.0	6.0	**6.0**										

JL	Jib length
LCC	Load carrying capacity

The load carrying capacity is related to a hook range of 42.0 m. Hook ranges greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (2 fall operation = 2.4 kg per meter of the hook range).

2.3 Table of load carrying capacity WOLFF 7532.12 (12.0t, 4 fall operation)

12.0 t		Operating radius[m]		20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	
JL [m]	75.0	2.6 – 25.9		12.0	12.0	10.2	8.6	7.3	6.4	5.6	5.0	4.5	4.0	3.6	**3.3**	LCC [t]
	70.0	2.6 – 27.9		12.0	12.0	11.1	9.3	8.0	6.9	6.1	5.4	4.9	4.4	**4.0**		
	65.0	2.6 – 29.3		12.0	12.0	11.7	9.8	8.4	7.4	6.5	5.8	5.2	**4.7**			
	60.0	2.6 – 29.8		12.0	12.0	11.9	10.0	8.6	7.5	6.6	5.9	**5.3**				
	55.0	2.6 – 30.6		12.0	12.0	12.0	10.3	8.9	7.7	6.8	**6.1**					
	50.0	2.6 – 31.2		12.0	12.0	12.0	10.6	9.1	7.9	**7.0**						
	45.0	2.6 – 31.8		12.0	12.0	12.0	10.8	9.3	**8.1**							
	40.0	2.6 – 31.9		12.0	12.0	12.0	10.8	**9.3**								
	35.0	2.6 – 32.6		12.0	12.0	12.0	**11.1**									
	30.0	2.6 – 30.0		12.0	12.0	**12.0**										

JL	Jib length
LCC	Load carrying capacity

The load carrying capacity is related to a hook range of 42.0 m. Hook ranges greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (4 fall operation = 4.8 kg per meter of the hook range).