

MOBILE CRANE REPORT SHEET

JOB No. L 52787

Unique No.	L52787	Serial No.	087 582	Inspection Date	14/04/2023
SWL (t)	90t at 2.5m max	Rego	PWQ638	Description	All terrain Crane
Owner	Agtrans Ltd	Location	Hawera	Maker	Liebherr LTM1090-4.2
				Year	2023

IF NOT PREVIOUSLY CERTIFICATED

Crane model is design verified	1	125% SWL test lift in stability governed range	1
Rope M.G.B.S. certificated or samples tested	1	All parts have correct Manufacturer's identification	1
Hook proof tested & compliance certificated	1	Part identification numbers are recorded below	1
Maker's rating sheets supplied	1	Control labels and rating sheets are in English language	1

CRANE INSPECTION & OPERATIONAL TESTS

Outrigger assemblies and jacks	1	Gearing, shafting keys and transmissions	1
Tracks / tyres & assemblies if pick & move	1	Controls, control labels & rating sheets	1
Chassis, underbody & frame	1	Hooks or lifting devices, swivels, shackles	1
Slew ring / slew post	1	Winch drums, pawls and attachment	1
Hydraulic hoses, lines and valves	1	Ropes: condition, length and terminations	1
Hydraulic rams and buffers	1	Sheaves and sheave blocks	1
Machinery spaces and upperworks frame	1	Boom & fly boom	1
Cab, horn, wipers, controls, labels, rating sheets	1	Boom upper luffing limit and preventers	1
Level indicator(s)	1	Rooster frame & sheave	1
		Maintenance records	1
		Test area clear & safe	1
		Periodic inspection lift performed ($\leq 100\%$ SWL)	1
		Limits, alarms & anti- two block	1
		Safe load device and/or circuit relief function	1
		All movements satisfactory	1
		Proof test type: 125% max moment (not previously certificated)	1

KEY: 1= Safe 2=Action next inspection 3=Repair 4=Renewal Required x = N/A

OBSERVATIONS & DEFECTS

First inspection on Liebherr LTM 1090-4.2 (2023) mobile crane s/n 087 582 for Agtrans Hawera at Liebherr NZ Wiri yard. This is the first certification in New Zealand. Following documentation reviewed:

- NZ Design Verification issued by Design Engineering 21030 Issue 1 (27/03/2019), letter from Liebherr that this crane is identical to crane on DV s/n 089 317.
- Manufacturers CE Declaration of Conformity) dated 29/11/2022
- Manufacture certificate and test certificate from Liebherr dated 02/12/2022
- Hook block certificates: 50t (3 sheave ramshorn), 22.01394-02, Y=159, 20t (1 sheave) 21.04357-08, Y=145 and 12.5t ball hook, 410851-01 Y=120
- Rope certificate (17mm, RHLL, mbs 283kN, 2160N/mm²), actual 17.72/17.76mm

All crane operations were demonstrated and the crane was visually inspected, full boom inspected. Anti 2 block alarm tested for main and auxiliary hook - OK.

The crane was tested with 2.4t counter weight, additional weights were already at the Auckland Cranes yard. Following test carried out: with 43.8m boom (4x 100%), 50t main hook in 4 part; test weight 5t; reading incl hook 5.6t

- 90% pre warning at 13m, 100% alarm and cut out at 14.6m over the rear - radius verified.
- Load luffed down to 17.8m (125%) SWL and slewed around over the right outrigger - crane found stable. 9.5/16m luffing fly jib was seen on the crane.

All of the above tests found satisfactory.

Crane to be maintained as per the manufactures recommendations.

New official number L52787 issued and hard stamped near the base of the boom.

TEST EQUIPMENT

ID No.	Steel counter weight	Calibration details
Type	As marked	

INSPECTOR: Leon Klijmiej	SIGNATORY: Leon Klijmiej	Issue date: 27/04/2023
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CERTIFICATE OF INSPECTION

Certificate No. L 52787

Owner / Controller:	Agtrans Ltd 24 Fitzgerald Lane Hawera 4673
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UNIQUE NO. OF ITEM: L52787 (s/n 087 582)

Description/Purpose	Maker	Location	SWL (t)
All terrain Crane	Liebherr LTM1090-4.2	Hawera	90t at 2.5m max

This item has been inspected in accordance with the HSE (PECPR) Regulations 1999, and was found to be safe at the time of inspection. Subject to proper operation and maintenance, this equipment may remain in use for the period of this certificate.

THIS CERTIFICATE EXPIRES ON: 30/04/2024

Refer to separate report for Surveyor's recommendations

Signatory: Leon Klijmeij

Inspector: Leon Klijmeij

Issue date: 27/04/2023

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