



Model for the certificate of conformity

CERTIFICATE OF CONFORMITY ACCOMPANYING EACH VEHICLE IN THE SERIES OF THE SERIES IF THE TYPE WHICH HAS BEEN APPROVED

Section I
MODEL A-COMplete VEHICLE

EU CERTIFICATE OF CONFORMITY

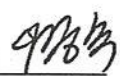
The undersigned: Joong-suk, Lee Manager / Quality Assurance Term
hereby certify that the following tractor:

- 1.1. Make (trade name of the manufacturer): ----- LS Mtron Ltd.
- 1.2. Type: ----- R-SERIES
- 1.2.1. Variant(s): ----- R50CAMT
- 1.2.2. Version(s): ----- N/A
- 1.2.3. Commercial name(s) (if available): ----- XR50
- 1.3. Category, subcategory and speed index of vehicle: ----- T2a
- 1.4. Company name and address of manufacturer: ----- LS Mtron Ltd.
127, LS-Ro, Dongan-Gu, Anyang-Si, Gyeonggi-Do, Korea
- 1.4.2. Name and address of manufacturer's authorised representative (if any): ----- MOVITER Equipamentos SA
Parque Movicortes, 2404-006 Azoria, Leiria, Portugal
- 1.5.1. Location of the manufacturer's statutory plate: ----- Front right side of tractor frame
- 1.5.2. Method of attachment: ----- Riveting
- 1.6.1. Location of the vehicle identification number on the chassis: ----- Front right side of tractor frame
- 2. Vehicle identification number: KLJ22412JJJ010782 ----- Right side of tractor frame

conforms in all respects to the type described in EU type-approval ----- e13*167/2013*00062*00
issued on ----- 13 July 2017
and can be permanently registered in Member States having right-hand traffic and using metric/imperial units for the speedometer

Wanju-Gun, Jeollabuk-Do, Korea
Place

18 Dec 2018
Date

Joong-suk, Lee 
Signature





Section2
Model 1 – VEHICLE CATEGORY T
(COMPLETE VEHICLE)

General construction characteristics

- 3.3.1. Number of axles and wheels: 2 axles, 4 wheels
3.3.2. Number and position of axles with twinned wheels: N/A
3.3.3. Number and position of steered axles: 1, Front
3.3.4. Number and position of powered axles: 2, Front and rear when 4WD is engaged
1, Rear when 4WD is disengaged
3.3.5. Number and position of braked axles: 2, Front and rear when 4WD is engaged
1, Rear when 4WD is disengaged
3.4.1. Crawler undercarriage configuration: set of track trains at front/set of track trains at rear/set of track trains at front and rear/continuous track train at each side of the vehicle: N/A
3.4.3. Number and position of braked set of track trains: N/A
3.4.4. Steering by N/A
- changing the speed between the left-hand side and right-hand side track trains: yes/no
- pivoting of two opposite or all four track trains: yes/no
- articulation of the front and rear part of the vehicle around a central vertical axis: yes/no
- articulation of the front and rear part of the vehicle around a central vertical axis and by changing the direction of the wheels on the wheeled axle: yes/no
3.5.2. Type of chassis: backbone/central tube/ladder/articulated/chassis with side members/other (if other: specify ...): Chassis with side members

Constructions characteristics for special purposes

- 47.1. Vehicle equipped with falling object protective structures(FOPS) for forestry applications: T - category vehicles equipped for forestry applications
47.2. Vehicle equipped with falling object protective structures(FOPS) for other applications than forestry: All other T - category vehicles fitted with FOPS
55.1. Vehicle equipped with protection against penetrating objects(OPS) for forestry applications: T - category vehicles equipped for forestry applications
55.2. Vehicle equipped with protection against penetrating objects(OPS) for other applications than forestry: All other T - category vehicles fitted with OPS
58.3. Vehicle equipped with a cab classified for protection against hazardous substances of category 2/3/4/ and a Dust filter/Aerosol filter/Vapour filter with regard to protection against hazardous substances: *CA*: Yes
59. Vehicle with machinery mounted on it: For T - category vehicles, machinery mounted on the vehicle
59.1. General description of the machinery and its inter-action with the vehicle: N/A



Masses

4.1.1.1. Unladen mass(es) in running order

4.1.1.1.1. Maximum: ----- 2,005kg

4.1.1.1.2. Minimum: ----- 1,895kg

4.1.2.1. Technically permissible maximum laden mass(es): ----- see point 4.1.2.2

4.1.2.1.1. Technically permissible maximum mass(es) per axle: ----- F axle: 810 - 1320 kg,
R axle: 2105 - 2105kg

4.1.2.2. Mass(es) and tyre(s): -----

Tyre combination No.	Axle No	Tyre dimension including load capacity index and speed category symbol	Roll-ing radius (mm)	Tyre Load rating per tyre(kg)	Maximum permissible mass per axle [kg](*)	Maximum permissible mass of the vehicle [kg](*)	permissible vertical load on the coupling point [kg](*)(**)(***)	Track width(mm)	
								Minimum	Maximum
1	F	7-16 4PR 76 A6	352	405	810	2915	R47DB : 1500kg R47iDBT : 350~450kg	1193	1193
	R	11.2-24 8PR 115 A6	533	1235	2105			1150	1266
2	F	8-16 4PR 82 A6	368	475	950	3008	R47DB : 1500kg R47iDBT : 350~450kg	1193	1193
	R	12.4-24 8PR 120 A6 (522)	560	1445	2105			1150	1266
		12.4-24 8PR 120 A6 (HS632)	560	1445	2105				
3	F	8-18 6PR 93 A6	408	660	1320	3008	R47DB : 1500kg R47iDBT : 350~450kg	1193	1193
	R	13.6-24 8PR 124 A6	583	1615	2105			1150	1266
4	F	9.5-16 6PR 96 A6	404	725	1320	3008	R47DB : 1500kg R47iDBT : 350~450kg	1261	1261
	R	13.6-24 8PR 124 A6	583	1615	2105			1150	1266
5	F	8.3-20.6PR 96 A6	366	1030	1320	3008	R47DB : 1500kg R47iDBT : 350~450kg	1244	1444
	R	12.4-28.6PR 116 A6	546	1500	2105			1140	1360
6	F	260/70R16 109 A8	373	1400	1320	3008	R47DB : 1500kg R47iDBT : 350~450kg	1272	1272
	R	360/70R24 112 A8	547	2180	2105			1173	1173
7	F	250/75R16MPT 120G	408	2000	1320	3008	R47DB : 1500kg R47iDBT : 350~450kg	1241	1241
	R	340/80R24IND 130D	583	3550	2105			1152	1152
8	F	400/60-15.5 132 A8	408	2000	1320	3008	R47DB : 1500kg R47iDBT : 350~450kg	1492	1492
	R	550/60-22.5 152 B	583	3550	2105			1352	1352

(*) According to the tyre specification.

(**)Load transmitted to the reference centre of the coupling under static conditions, irrespective to the coupling device; if the maximum permissible vertical load on the coupling point depending on the coupling is indicated in this table, expand the table at the right side and indicate the identification of the coupling device in the header of the column; for R- or S-category vehicles this column(s) concerns the rear coupling devices if there is such a device.

(***) Value to be provided only if the maximum permissible vertical load on the coupling point is lower than indicated in entries 38.3 and 38.4.

4.1.2.3. Mass(es) and crawler undercarriage: ----- N/A



4.1.3. Technically permissible towable mass(es) for each chassis/braking configuration of the R- or S-category vehicle:

For R47DB

Brake \ R-and S category vehicle	Drawbar	Rigid drawbar	Center-axle
Unbraked	N/A	N/A	N/A
Inertia braked	3600kg	3600kg	3600kg
Hydraulic braked	N/A	N/A	N/A
Pneumatic braked	N/A	N/A	N/A

For R47iDBT

Brake \ R-and S category vehicle	Drawbar	Rigid drawbar	Center-axle
Unbraked	N/A	N/A	N/A
Inertia braked	2800kg	2800kg	2800kg
Hydraulic braked	N/A	N/A	N/A
Pneumatic braked	N/A	N/A	N/A

4.1.4. Total technically permissible mass(es) of combination with a towed vehicle(R- or S- category vehicle) for each chassis/braking configuration of the R- or S-category vehicle:

For R47DB

Brake \ R-and S category vehicle	Drawbar (kg)		Rigid drawbar (kg)		Centre-axle (kg)	
	RF, *FF*	*CA*	*RF*, *FF*	*CA*	*RF*, *FF*	*CA*
Unbraked(*)	N/A	N/A	N/A	N/A	N/A	N/A
Inertia braked	6487	6515~6608	6487	6515~6608	6487	6515~6608
Hydraulic braked	N/A		N/A		N/A	
Pneumatic braked	N/A		N/A		N/A	

For R47iDBT

Brake \ R-and S category vehicle	Drawbar (kg)		Rigid drawbar (kg)		Centre-axle (kg)	
	RF, *FF*	*CA*	*RF*, *FF*	*CA*	*RF*, *FF*	*CA*
Unbraked(*)	N/A	N/A	N/A	N/A	N/A	N/A
Inertia braked	5687	5715~5808	5687	5715~5808	5687	5715~5808
Hydraulic braked	N/A		N/A		N/A	
Pneumatic braked	N/A		N/A		N/A	

Ballast masses

29.2. Number of sets of ballast masses: ----- See point 29.4

29.2.1. Number of components on each set: Set1: ... Set2: ... Set ...: ----- See point 29.4

29.4. Total mass of ballast masses: ... kg: -----

No	Front ballasts	Rear ballasts(**)	Total mass(es) (kg)	Front mass (kg)	Rear mass (kg)
1	4-front ballast masses (*)	N/A	80	110	-30

* Front ballasts mass : 20kg/each plate

** Rear ballasts mass : N/A



Main dimensions

- 4.2.1. For incomplete vehicles
 - 4.2.1.1. Permissible length for the completed vehicle: ----- N/A
 - 4.2.1.2. Permissible width for the completed vehicle: ----- N/A
 - 4.2.1.3.. Height (in running order): maximum ... mm minimum ... mm: ----- N/A
- 4.2.2. For complete vehicles
 - 4.2.2.1.1. Length for on-road use: ----- maximum: 3,607mm / minimum: 3,607mm
 - 4.2.2.1.2. Width for on-road use: ----- maximum: 1,893mm / minimum: 1,457mm
 - 4.2.2.1.3. Height for on-road use: ----- maximum: 2,332mm / minimum: 2,255mm
 - 4.2.2.5. Wheelbase: ----- 1,858mm
 - 4.2.2.8. Track width: ----- maximum: 1,492mm for front wheel, 1,352mm for rear wheel
minimum: 1,193mm for front wheel, 1,140mm for rear wheel

General powertrain characteristics

- 5.1.1.1. Declared maximum design vehicle speed: ----- 28.6km/h
- 5.1.2.1. Declared rearward maximum design vehicle speed: ----- 25.9km/h
- 5.2. Rated engine net power: (UNECE R120) ----- 35.0kW - 2600min⁻¹
- 5.3. Maximum engine net power: (UNECE R120) ----- 35.0kW - 2600min⁻¹
- 5.5. Fuel type: ----- B5(Diesel)

Engine

- 2.1. Make(s) (trade name(s) of manufacturer): ----- LS Mtron Ltd.
- 2.2. Type: (Operating principle) ----- in-direct injection
 - 2.2.2. Type-approval number without extension: ----- e13*97/68KA*2012/46*0861
- 2.5.2. Manufacturer's type coding (as marked on the engine or other means of identification): ----- S4Q-L34.6kW
- 6.1. Cycle: ----- four stroke
- 6.4. Number and layout of cylinders: ----- 4, L1(in-line), vertical
- 6.5. Engine capacity: ----- 2,505cm³
- 7.1.1. Combustion cycle: positive ignition/compression ignition: ----- compression ignition



Gearbox

11.2.8. Type of gear shift system(s): ----- Mechanical lever and linkage

Steering

13.2. Steering category: ----- Power-assisted

Braking

43.4.6. Electronic braking system: ----- yes/no/optional

43.5.1. Braking transmission: ----- Mechanical

43.6.1. Towed vehicle braking control system technology: ----- Hydraulic/Pneumatic/Electric/None

43.6.4. Connections type: ----- Single line/Two lines/None

43.6.4.1. Supply pressure Hydraulic: Single line: ... kPa Two lines ... kPa ----- N/A

43.6.4.2. Supply pressure Pneumatic: ... Two lines: ... kPa ----- N/A

43.6.5. Presence of ISO 7638:2003 connector: ----- yes/no

Rollover protective structure (ROPS)

2.1. Make(s) (trade name(s) of manufacturer): ----- LS Mtron Ltd.

2.2.2. Type-approval number(s) (if available): ----- e13*1322/2014*2016/1788U5S*00092*00

46.1. Equipment of ROPS: ----- compulsory/optional/standard

46.2. ROPS by cab/by frame/by roll bar(s) mounted at front/rear: ----- Cab

46.2.1. In the case of roll bar: foldable/not foldable: ----- N/A

46.2.2. In the case of foldable roll bar: ----- N/A

46.2.2.1. Folding operation: non-assisted / partially assisted / fully assisted ----- N/A

46.2.2.2.1. Hand operated foldable ROPS: with tools / without tools: ----- N/A

46.2.2.4. Locking mechanism: manual/automatic: ----- N/A



Seating position(saddles and seats)

- 49.1. Seating position configuration: ----- Seat
- 49.4.2. Driver's seat type category: ----- Category A, class II for Woochang(W10SSS)
Category A, class II for Grammer(DS85H/90)
- 49.4.3. Reversible driving position: ----- No
- 49.5.1. Number of passenger seats: ----- N/A

Load platform(s)

- 33.1.1. Length of the load platform(s): ... mm: ----- N/A
- 33.1.2. Width of load platform(s): ... mm: ----- N/A
- 33.1.3. Height of load platform(s) above the ground: ... mm: ----- N/A
- 33.2. Safe load carrying capacity of load platform(s) declared by manufacturer: ... kg: ----- N/A

Mechanical couplings

38.3. Rear mechanical coupling: -----

Type (according to Appendix 1 to Annex XXXIV to Commission Delegated Regulation (EU) 2015/208)			No-swivel Clevis Coupling	Tractor drawbar
Make			LS Mtron Ltd.	
Manufacturer's type designation			47DB	47iDBT
(EU) type-approval mark or -number			e13*2015/208*2016/1788 NS*00045*00	e13*2015/208*2016/1788 NS*00045*00
Maximum horizontal load/D-Value: ... kg/kN			N/A	N/A
Towable mass (T)			3.6 tonnes	2.8 tonnes
Maximum permissible vertical load on the coupling point			1500kg	350(Short position)~ 450kg(Long position)
Position of coupling point	height above ground	minimum	453mm	362mm
		maximum	453mm	452mm
	distance from vertical plane passing through the axis of the rear axle	minimum	317mm	549mm
		maximum	317mm	649mm

Three-point lifting mechanism

- 39.1. Three-point lifting mechanism: ----- Rear mounted
- 39.2. Maximum towable mass: ... kg: ----- 1,120kg



Additional coupling points

40.1. Additional coupling points: ----- yes/no/optional

Power take-off(s)

51.2. Main PTO: position: front/rear/other (if other specify: ...): ----- rear

51.3. Secondary PTO: position: front/rear/other (if other specify: ...) ----- N/A

51.2.3. Optional: Power at the power take-off (PTO) at the rated speed(s) (in accordance with OECD Code 2 or ISO 789-1:1990 (Agricultural tractors — Test procedures — Part 1: Power tests for power take-off))

Rated speed PTO (min ⁻¹)	Corresponding engine speed (min ⁻¹)	Power (kW)		
		R41**	R45**	R50**
1-540	2409	26.5	27.3	30.4
2-1000	2381	26.3	27.2	30.1
540E	1710	20.5	21.2	25.0
750	2375	26.7	27.1	30.3

Results of the sound level test(external)

Measured according to Annex III to Commission Delegated Regulation (EU) 2015/96, as last amended by Commission Delegated Regulation (EU)

Moving[dB(A)]	79.5
Stationary[dB(A)]	80.9
Engine speed[min ⁻¹]	2,750

Driver-perceived sound level

Measured according to Annex XIII to Commission Delegated Regulation (EU) No 1322/2014, as last amended by Commission Delegated Regulation (EU)

Driver's exposure to noise level[dB(A)]	85.0 closed/ 85.4 opened
Test method used	Test method 2



Results of exhaust emission tests (inclusive of Deterioration Factor)

Measured according to:

- Annex I to Commission Delegated Regulation (EU) 2015/96, as last amended by Commission Delegated Regulation (EU) .../... : -----yes/no
- Annex XII to Directive 97/68/EC of the European Parliament and of the Council, as last amended by (Commission) Directive No .../.../EU: -----yes/no
- Regulation (EC) No 595/2009 of the European Parliament and of the Council, as last amended by (Commission Delegated) Regulation (EU) (No) .../... (of the European Parliament and of the Council): -----yes/no
- Annex 4B to UNECE Regulation No 96.04 series of amendments (OJL 88,22.3.2014, p.1): -----yes/no

Cycle	NRSC/ESC/WHSC	NRTC/ETC/WHTC
Stage	STAGE IIIA	-
CO(g/kWh)	1.879	-
HC(g/kWh)	0.26	-
NOx(g/kWh)	6.69	-
HC+NOx(g/kWh)	6.95	-
PM(g/kWh)	0.461	-
CO2(g/kWh)	821.2	-
NMHC(g/kWh)	-	-
CH4(g/kWh)	-	-
NRTC hot cycle CO2(g/kWh)	-	-
NRTC hot cycle work	-	-
Cycle work for hot start w/o regeneration	-	-

Comments: -----

Vehicle compliant to TMR - Reg. (EU) 167/2013 last amended by: ----- Reg. (EU) 2018/830

Vehicle compliant to RVBR - Reg. (EU) 2015/68 last amended by: ----- Reg. (EU) 2018/828

Vehicle compliant to RVFSR - Reg. (EU) 2015/208 last amended by: ----- Reg. (EU) 2018/829

Vehicle compliant to RVCR - Reg. (EU) 1322/2014 last amended by: ----- Reg. (EU) 2018/830