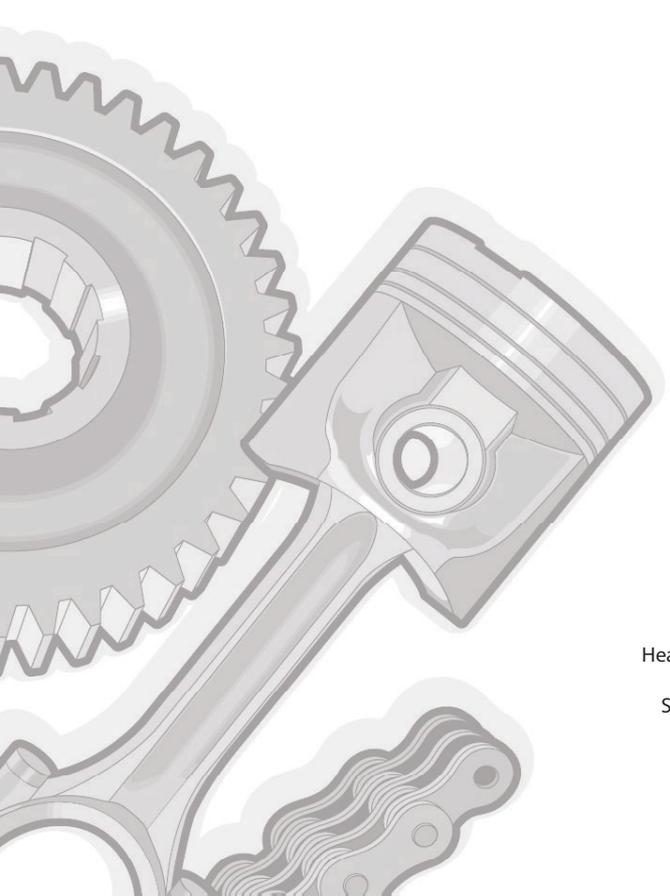




**REPAIR MANUAL
MANUEL DE RÉPARATION
REPARATURANLEITUNG
MANUAL DE REPARACIÓN
MANUALE RIPARAZIONE**

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GROUP 0

GENERAL POINTS

LIFT TRUCK CHARACTERISTICS

0-1-M92 EN

	Pages
MLT 845 -120 LSU Série 3-E2	3 to 15
MLT 940 L -120 LSU Série 3-E2	
ML 635 Turbo Série 3-E2	17 to 97
MT 940 L Turbo Série 3-E2	
MT 1235 S Série 3-E2	
MT 1235 S Turbo Série 3-E2	
MT 1240 L Turbo Série 3-E2	
MT 1240 L Turbo ULTRA Série 3-E2	
MT 1335 SL Série 3-E2	
MT 1335 SL Turbo Série 3-E2	
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MT 1440 SL Turbo ULTRA Série 3-E2	
MT 1740 SL Turbo Série 3-E2	
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MT 1340 SL Turbo MONO-ULTRA NACELLE ORH Série 3-E2	99 to 129
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MT 1340 SL Turbo ULTRA NACELLE ORH RC Série 3-E2	131 to 162
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CHARACTERISTICS

I.C. ENGINE

- Type	PERKINS 1104C-44TA RJ81376
	1104C-44TA
- Number of cylinders	4 in line
- Number of strokes	4
- Suction	Turbocharged, cooled
- Injection system	Direct
- Ignition sequence	1.3.4.2.
- Clearance of rocker valve (cold)	
. Inlet	0,20 mm
. Exhaust	0,45 mm
- Capacity	4400 cm ³
- Bore	105 mm
- Stroke	127 mm
- Compression ratio	17,5/1
- Nominal rating loaded	2200 rpm
- Rating slow unladen	930 ⁺²⁰ rpm
- Max. rating unladen	2370 rpm
- Power ISO/TR 14396	123 cv/90,5 kw
- Maximum torque ISO/TR 14396	434 Nm à 1400 rpm
- Air cleaner	Sec 3 µ

COOLING CIRCUIT

- Type	By water
- Fan	Puller
. Number of blades	10
. Diameter	508 mm
- Thermostat	
. Start opening	79 °C/84 °C
. Full opening	93 °C

TRANSMISSION

- Type	TURNER POWERTRAIN SYSTEMS
- Torque converter	SACHS
- Gear box	
. Number of forward speeds	4
. Number of reverse speeds	4
- Gear reverser	Electro-hydraulic

ANGLE GEAR-BOX

- Type	TURNER POWERTRAIN SYSTEMS
--------	----------------------------------

FRONT AXLE

MLT 845 -120 LSU Série 3-E2

- | | |
|-----------------------------|-------------|
| - Type | DANA |
| - Limited slip differential | 45 % |
| - Hub reducers | Epicyclic |

FRONT AXLE

MLT 940 L -120 LSU Série 3-E2

(up to machine no 220755)

- | | |
|----------------|-------------|
| - Type | DANA |
| - Hub reducers | Epicyclic |

(from machine no 220756)

- | | |
|-----------------------------|-------------|
| - Type | DANA |
| - Limited slip differential | 45 % |
| - Hub reducers | Epicyclic |

REAR AXLE

MLT 845 -120 LSU Série 3-E2

- | | |
|-----------------------------|-------------|
| - Type | DANA |
| - Limited slip differential | 45 % |
| - Hub reducers | Epicyclic |

REAR AXLE

MLT 940 L -120 LSU Série 3-E2

(up to machine no 220755)

- | | |
|----------------|-------------|
| - Type | DANA |
| - Hub reducers | Epicyclic |

(from machine no 220756)

- | | |
|-----------------------------|-------------|
| - Type | DANA |
| - Limited slip differential | 45 % |
| - Hub reducers | Epicyclic |

BRAKE

- | | |
|---------------------------|--|
| - Service brake
. Type | Foot pedal. Hydraulic servo-brake, applied on the front and rear wheels.
Multidisc brake immersed in oil. |
|---------------------------|--|

(up to machine no 203419)

- | | |
|---------------------------|--|
| - Parking brake
. Type | Mechanical hand lever applied on the front wheels.
Multidisc brake immersed in oil. |
|---------------------------|--|

(from machine no 203420)

- | | |
|---------------------------|--|
| - Parking brake
. Type | Switch. Electro-hydraulic brake acting on front wheels through pressure break.
Multidisc brake immersed in oil. |
|---------------------------|--|

ELECTRIC CIRCUIT

- | | |
|------------------------|----------------------------------|
| - Earth | Negative |
| - Battery | 12 V - 110 Ah - 750 A EN |
| - Alternator
. Type | 12 V - 75 A
Denso A115i |
| . Tension regulator | Incorporated into the alternator |
| - Starter
. Type | 12 V - 3,0 kW
Denso E95RL |

FRONT AND REAR TYRES

DIMENSIONS	PRESSURE	TYRE LOAD		PRESSURE ON THE CONTACT SURFACE		AREA OF THE CONTACT SURFACE	
				HARD GROUND	LIGHT GROUND	HARD GROUND	LIGHT GROUND
440/80-24 T37 158B TUBELESS DUNLOP	4,5 BAR	FRONT UNLADEN	1900 KG	7,79 KG/CM2	2,16 KG/CM2	243 CM2	877 CM2
		FRONT LADEN	5750 KG	12,37 KG/CM2	3,40 KG/CM2	465 CM2	1690 CM2
		REAR UNLADEN	2450 KG	8,45 KG/CM2	2,36 KG/CM2	290 CM2	1040 CM2
		REAR LADEN	800 KG	6,03 KG/CM2	1,68 KG/CM2	132 CM2	474 CM2
15,5-25 12PR SGL DL 2A GOODYEAR	4,5 BAR	FRONT UNLADEN	1900 KG	7,01 KG/CM2	3,77 KG/CM2	271 CM2	504 CM2
		FRONT LADEN	5750 KG	8,39 KG/CM2	4,53 KG/CM2	685 CM2	1269 CM2
		REAR UNLADEN	2450 KG	6,81 KG/CM2	3,71 KG/CM2	360 CM2	660 CM2
		REAR LADEN	800 KG	5,71 KG/CM2	3,08 KG/CM2	140 CM2	260 CM2
15,5/80-24 SGI 16PR TUBELESS GOODYEAR	4,5 BAR	FRONT UNLADEN	1900 KG	8,98 KG/CM2	2,45 KG/CM2	211 CM2	776 CM2
		FRONT LADEN	5750 KG	13,77 KG/CM2	3,73 KG/CM2	418 CM2	1540 CM2
		REAR UNLADEN	2450 KG	10,21 KG/CM2	2,71 KG/CM2	240 CM2	903 CM2
		REAR LADEN	800 KG	8,17 KG/CM2	2,21 KG/CM2	100 CM2	368 CM2
445/70R24 IT510 151G TUBELESS GOODYEAR	4,1 BAR	FRONT UNLADEN	1900 KG	8,63 KG/CM2	2,86 KG/CM2	220 CM2	664 CM2
		FRONT LADEN	5750 KG	10,28 KG/CM2	3,39 KG/CM2	559 CM2	1694 CM2
		REAR UNLADEN	2450 KG	9,07 KG/CM2	3,02 KG/CM2	270 CM2	810 CM2
		REAR LADEN	800 KG	7,16 KG/CM2	2,35 KG/CM2	110 CM2	334 CM2
445/70R24 XM47 151G TUBELESS MICHELIN	4,1 BAR	FRONT UNLADEN	1900 KG	1,85 KG/CM2		1025 CM2	
		FRONT LADEN	5750 KG	3,31 KG/CM2		1736 CM2	
		REAR UNLADEN	2450 KG	2,16 KG/CM2		1133 CM2	
		REAR LADEN	800 KG	1,02 KG/CM2		782 CM2	
1200R24 X MINE D2 MICHELIN	6 BAR	FRONT UNLADEN	1900 KG	4,02 KG/CM2		472 CM2	
		FRONT LADEN	5750 KG	6,65 KG/CM2		864 CM2	
		REAR UNLADEN	2450 KG	4,64 KG/CM2		528 CM2	
		REAR LADEN	800 KG	2,22 KG/CM2		360 CM2	
15,5R25 XHA TUBELESS MICHELIN	4 BAR	FRONT UNLADEN	1900 KG	2,72 KG/CM2	1,27 KG/CM2	666 CM2	1427 CM2
		FRONT LADEN	5750 KG	3,62 KG/CM2	1,64 KG/CM2	1588 CM2	3513 CM2
		REAR UNLADEN	2450 KG	3,09 KG/CM2	1,44 KG/CM2	793 CM2	1699 CM2
		REAR LADEN	800 KG	1,67 KG/CM2	0,78 KG/CM2	463 CM2	991 CM2
445/65R22,5 XZY 169K TUBELESS MICHELIN	4,5 BAR	FRONT UNLADEN	1900 KG	3,37 KG/CM2		563 CM2	
		FRONT LADEN	5750 KG	4,82 KG/CM2		1193 CM2	
		REAR UNLADEN	2450 KG	3,66 KG/CM2		669 CM2	
		REAR LADEN	800 KG	2,54 KG/CM2		313 CM2	
480/65R24 146D SF TUBELESS NOKIAN	3,8 BAR	FRONT UNLADEN	1900 KG	3,17 KG/CM2	0,94 KG/CM2	598 CM2	2020 CM2
		FRONT LADEN	5750 KG	3,32 KG/CM2	1,97 KG/CM2	1731 CM2	2920 CM2
		REAR UNLADEN	2450 KG	3,25 KG/CM2	1,13 KG/CM2	754 CM2	2167 CM2
		REAR LADEN	800 KG	2,92 KG/CM2	0,46 KG/CM2	268 CM2	1679 CM2
460/70R24 XMCL 159A8 MICHELIN	4 BAR	FRONT UNLADEN	1900 KG	KG/CM2	KG/CM2	CM2	CM2
		FRONT LADEN	5750 KG	KG/CM2	KG/CM2	CM2	CM2
		REAR UNLADEN	2450 KG	KG/CM2	KG/CM2	CM2	CM2
		REAR LADEN	800 KG	KG/CM2	KG/CM2	CM2	CM2

HYDRAULIC CIRCUIT

- Type of pump	Variable displacement piston pump
. Capacity	63 cm ³
. Max. rating capacity unladen	149 L/mn
. Flow rate at 2300 rpm	145 L/mn
. Flow rate at 1600 rpm	101 L/mn
- Pressure	
. Lifting, tilting, telescoping, attachment circuit	270 Bar
. Steering circuit	140 Bar
. Brake circuit	40 Bar
- Filtration	
. Return	10 µm
. Suction	125 µm

SPECIFICATIONS

- Level of sound pressure in the driver's cab LpA (according to standard prEN 12053: 1995)	83,6 dB	
- Level of sound power in the LwA environment (according to directive 2000/14/EC modified by directive 2005/88/EC)	107 dB	
- Average weighted acceleration on driver's body (according to standard NF EN 13059)	m/s ²	
- The average weighted acceleration transmitted to the driver's hand/arm system (in accordance with ISO 5349-2) is less than 2.5 m/s ²		
- Speed of movement of lift truck in standard configuration on horizontal ground (except particular conditions)		
. Forward unladen	31,9 km/h	
. Reverse unladen	31,9 km/h	
- Standard lift height	7550 mm	
- Rated capacity with standard attachment	4500 kg	
- Load center	500 mm	
- Weight of forks (each)	78 kg	
- Lifting motions (jib retracted)		
. Unladen lifting	9,6 s	30,4 m/mn
. Laden lifting	10,4 s	27,9 m/mn
. Unladen lowering	6,1 s	47,6 m/mn
. Laden lowering	5,6 s	51,7 m/mn
- Telescoping motions (lifting jib)		
. Unladen extending	9,8 s	18,6 m/mn
. Laden extending	10,1 s	19,4 m/mn
. Unladen retracting	7,8 s	24,2 m/mn
. Laden retracting	7,9 s	23,8 m/mn
- Reverse tilt time unladen	3,7 s	38,4 °/s
- Forward tilt time unladen	3,2 s	44,4 °/s
- Lift truck weight with standard attachment		
. Unladen	8645 kg	
. Rated load	13145 kg	
- Axle weight with attached equipment (transport position)		
. Front unladen	3765 kg	
rated load	11515 kg	
. Rear unladen	4880 kg	
rated load	1630 kg	
- Tensile strain at coupling hook		
. Unladen	6600 daN	
. Rated load	9000 daN	
- Break out force with bucket (according to standard ISO 8313)	6650 daN	