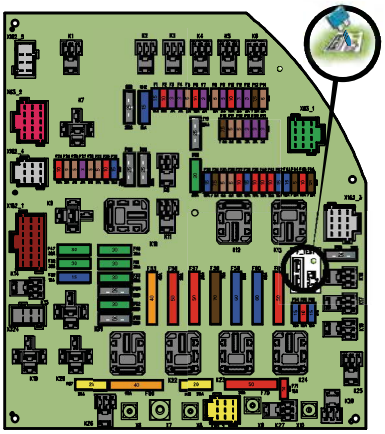
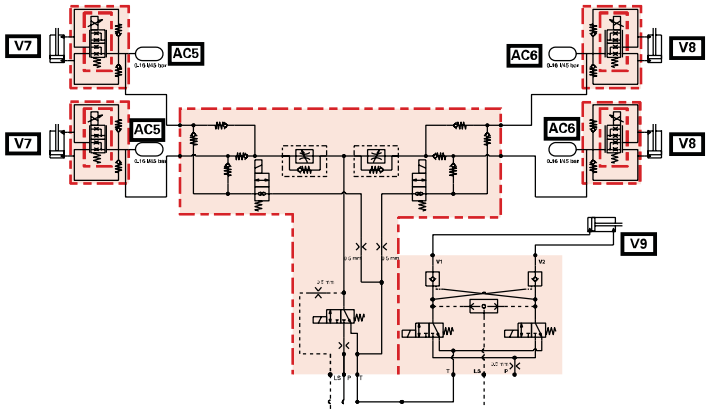
# Workshop Service Manual

# Technician Service Book - 6400 series tractors

Electrical and hydraulics diagrams






AGCO S.A. - Beauvais - France - RC B562 104 539
MASSEY FERGUSON is a worldwide brand of AGCO


June 2010
No. 4346420M1
6400
English

# Technician Service Book - 6400 series tractors

# 1 - General

# A - General specifications

# 1 Model 6445

| Engine | |
|---|---|
| Brand | Perkins |
| Type | 1104D E44TA |
| Nominal power (ISO TR14396) at 2200 rpm | 95 hp |
| Maximum power (ISO TR14396) at 2000 rpm | 100 hp |
| Maximum torque (ISO TR14396) | 400 Nm (295 lbf ft) |
| Maximum PTO power (OECD) at PTO 1000 rpm | 88 hp |
| Idle speed | 950 rpm |
| Maximum speed | 2350 rpm |
| Engine weight | 303 kg (668 lb) |
| Number of cylinders | 4 |
| Engine cubic capacity | 4,4 l (1.2 gal (US)) |
| Piston travel | 127 mm (5.0 in) |
| Piston diameter | 105 mm (4.1 in) |
| Compression ratio | 16.2:1 |
| Compression pressure | - |
| Injection pump brand | Delphi |
| Injection pump type | SF200HP |
| Firing order | 1-3-4-2 |
| Maximum pressure in the high-pressure system | 1600 bar |
| Injector brand | Delphi |
| Injector type | SF200 |
| Charge pump type | Mechanical, driven by the injection pump |
| Fuel prefilter filtration capacity | 20 µ |
| Main fuel filter filtration capacity | 2 µ |
| Low-pressure system pressure at minimum speed | 4 bar (58 psi) to 5 bar (73 psi) |
| Low-pressure system pressure at maximum speed | 4 bar (58 psi) to 5 bar (73 psi) |
| Recommended oil: | CI - 4 (ACEA and API) |
| Maximum operating tilt (precautions) | - |
| Oil/fuel consumption | Maximum 0.1% |
| Lubrication system | By gear pump |
| Oil cooling system | Radiator |
| Oil pressure at minimum speed | 3 bar (44 psi) |
| Oil pressure at maximum speed | 3,5 bar (51 psi) to 4,5 bar (65 psi) |
| Relief valve adjustment pressure | 4,5 bar (65 psi) |
| Air suction type | Turbo air/air |
| Air preheating type | Glow plugs |
| Number of valves | 4 per cylinder = 16 |
| Valve clearance value | 0,35 mm (0.01 in) +/- 0,05 mm (0.002 in) |
| Engine cooling system | Coolant |
| Fan type | Viscostatic |
| Thermostat begins to open at | 82 °C (180 °F) |
| Liquid temperature from - to | -35 °C (-31 °F) to 108 °C (226 °F) |

| Engine | |
|---|---|
| Block preheater | 110 or 220 volts |
| Fuel preheater | - |
| Internal EGR system | Yes |

| Transmission/rear axle | |
|---|---|
| Gearbox type | GBA25 |
| Transmission type | Dyna-6 |
| Number of ratios | 6 |
| Number of ranges | 4 |
| Number of gears | 24 |
| Creeper gears | 4/1 |
| Number of gears with creeper gears | 36/36 |
| Super creeper gears | 14/1 |
| Number of gears with super creeper gears | 48/48 |
| Maximum speed | 40 km/h (25 mile/h) |
| Rear axle type | GPA22 |
| Number of pinion/ring gear teeth | 8/39 |
| Rear axle ratio (crownwheel and pinion) | 24.750 |
| 4WD ratio | 1.04 |
| Final drive type | HD |
| Final drive reduction ratio | (53+13)/13 |
| Maximum 4WD clutch torque | 100 daNm (738 lbf ft) |
| Number of 4WD discs | 4 |
| Main brake type | Disc |
| Number of discs | 1 per trumpet housing |
| Braking pressure | - |
| Parking brake type | Hand brake |
| Trailer brake type | Hydraulics |
| Hydraulic trailer braking pressure | 0 to 150 bar (2176 psi) |
| Maximum operating tilt - pitch (front/rear) | 15° |
| Maximum operating tilt - roll (right/left) | 15° |
| Maximum operating tilt - combined | 15° |
| Transmission preheater | 110 V accessory kit available |
| Total loaded weight supported by rear axle - 40 km/h (25 mile/h) | 2WD = 6100 kg (13448 lb)<br>4WD = 6500 kg (14330 lb) assisted brakes, 6300 kg (13889 lb) non-assisted brakes |
| Total loaded weight supported by rear axle - 50 km/h (31 mile/h) | - |

| 4WD front axle and 2WD front axle | |
|---|---|
| 2WD front axle brand | LODI |
| Axle type | Fixed |
| Supplier reference | LODI 140 CP |
| Total loaded weight supported by front axle | 2800 kg (6173 lb) |
| 4WD front axle brand | DANA |

| 4WD front axle and 2WD front axle | |
|---|---|
| Axle type | Suspended or fixed |
| Supplier reference - fixed front axle | 720/527 |
| Supplier reference - suspended front axle | 730/604 (1 accumulator)<br>730/608 (2 accumulators) |
| Rotational direction | anti-clockwise |
| Total loaded weight supported by front axle - 40 km/h (25 mile/h) | 3300 kg (7275 lb) |
| Total loaded weight supported by front axle - 50 km/h (31 mile/h) | - |
| Recommended oil type (beam and final drive) | SAE 85 W 90 (API GL5) |
| Total ratio for fixed front axle | 18.975 |
| Total ratio for suspended front axle | 19.00 |
| Number of teeth on final drive | 14 x 27 x 70 |
| Ratio for fixed axle final drive | 4.6 |
| Ratio for suspended axle final drive | 6 |
| Number of fixed axle pinion/ring gear teeth | 8/33 |
| Number of suspended axle pinion/ring gear teeth | 12/38 |
| Differential type | Coupler |
| Number of discs on multidisc differential | - |
| Maximum steering angle | 55° |
| Oscillation angle | - |
| Type of oscillation stop | Mechanical |
| Steering ram diameter | 63 mm (2.5 in) x 32 mm (1.3 in) |
| Steering ram stroke | 2 x 125 mm (4.9 in) |
| Suspension type | Hydraulics |
| Suspension ram diameter | 65 mm (2.6 in) x 60 mm (2.4 in) |
| Suspension ram stroke | 100 mm (3.9 in) |
| Hydraulic control unit brand | Husco |
| Hydraulic control unit nominal pressure | 200 bar (2901 psi) |
| Number of accumulators | 1 accumulator (730/604)<br>2 accumulators (730/608) |
| Accumulator pressure | 1 accumulator 1 l (0.3 gal (US)) = 20 bar (290 psi)<br>2 accumulators:<br>– Left 0,5 l (0.1 gal (US)) = 10 bar (145 psi)<br>– Right 0,75 l (0.2 gal (US)) = 50 bar (725 psi) |
| Suspension sensor type | Angular potentiometer. |
| Steering sensor type (with Auto-Guide option) | - |
| Factor K | Fixed axle = 1.360<br>Suspended axle = 1.358 |

| Electrohydraulic | |
|---|---|
| System type | Open Centre (OC) 57 l/min (15.1 gal/min (US))<br>or<br>Closed Centre Load Sensing (CCLS) 110 l/min (29.1 gal/min (US)) |
| Flow rate | 57 l/min (15.1 gal/min (US)) (OC)<br>110 l/min (29.1 gal/min (US)) (CCLS) |
| High-pressure pump type | Bosch Rexroth gear pump (OC)<br>Bosch Rexroth piston pump (CCLS) |
| High-pressure pump displacement | 19 $cm^3$ (1.16 $in^3$) (OC)<br>45 $cm^3$ (2.75 $in^3$) (CCLS) |
| High-pressure pump rotational speed | 2200 rpm |
| High-pressure pump maximum flow rate | 57 l/min (15.1 gal/min (US)) (OC)<br>117 l/min (30.9 gal/min (US)) (CCLS) |
| High-pressure pump maximum pressure | 200 bar (2901 psi) |
| Maximum quantity of oil to add for heavy implements | 10 l (2.6 gal (US)) |
| Maximum exportable oil quantity (without adding oil) | 32 l (8.5 gal (US)) |
| Maximum exportable oil quantity (adding oil) | 42 l (11.1 gal (US)) |
| Charge pump type | Suction (OC)<br>Bosch Rexroth 71 $cm^3$ (4.33 $in^3$) gear pump (CCLS) |
| Main relief valve adjustment pressure | 195 bar (2828 psi) ± 5 bar (73 psi) (OC)<br>230 bar (3336 psi) ± 5 bar (73 psi) (CCLS) |
| Number of spool valves (maximum) | 4 |
| Number of front "push-pull" connectors (maximum) | 2 |
| Number of rear "push-pull" connectors (maximum) | 8 |
| Maximum flow rate per spool valve | 57 l/min (15.1 gal/min (US)) (OC)<br>100 l/min (26.4 gal/min (US)) (CCLS) |
| Spool valve control type | Mechanical or electrohydraulic (CCLS only) |
| Recommended oil: | According to MF CMS M 1145 specification |

| Steering | |
|---|---|
| Steering type | Hydrostatic |
| Type of control | Steering wheel |
| Orbitrol displacement | 2WD = 80 $cm^3$ (4.88 $in^3$)<br>4WD = 125 $cm^3$ (7.63 $in^3$) |
| Steering ram diameter | 63 mm (2.5 in) x 32 mm (1.3 in) |
| Steering ram stroke | 2 x 125 mm (4.9 in) |
| Working pressure | 175 bar (2538 psi) ± 5 bar (73 psi) |
| Pressure relief valve adjustment pressure | 175 bar (2538 psi) ± 5 bar (73 psi) |
| Shock valve adjustment pressure | 240 bar (3481 psi) |
| Oil recommended for steering | According to MF CMS M 1145 specification |

| Linkage | |
|---|---|
| Rear lift ram diameter | 66 mm (2.6 in) or 75 mm (3.0 in) |
| Rear linkage travel | 696 mm (27.4 in) or 702 mm (27.7 in) |
| Maximum lifting capacity at ball joints (rear) | 5850 kg (12897 lb) (rams 66 mm (2.6 in))<br>7100 kg (15653 lb) (rams 75 mm (3.0 in)) |

| Linkage | |
|---|---|
| Operating pressure (rear) | 180 bar (2611 psi) |
| 3-point linkage category (rear) | CAT2 or CAT3 |
| Front lift ram diameter | 70 mm (2.8 in) |
| Front linkage travel | - |
| Maximum lifting capacity at ball joints (front) | 2500 kg (5512 lb) |
| Operating pressure (front) | 180 bar (2611 psi) |
| 3-point linkage category (front) | CAT2 |

| Rear power take-off (PTO) | |
|---|---|
| Number of selections possible for rear PTO | 540/1000<br>540/1000/540 ECO/1000 ECO with GSPTO option |
| Maximum permissible power 540/540 ECO in 1"3/8 (6 and 21 splines) | 540 = 73 kW / 540E = 40 kW |
| Maximum permissible power 540/540 ECO in 1"3/4 (20 splines) | 540 = 80 kW / 540E = 40 kW |
| Maximum permissible power 1000/1000 ECO in 1"3/8 (6 and 21 splines) | 1000 = 73 kW / 1000E = 40 kW |
| Maximum permissible power 1000/1000 ECO in 1"3/4 (20 splines) | 1000 = 73 kW / 1000E = 40 kW |
| Engine speed if PTO 540 | 1980 rpm |
| Engine speed if PTO 540 ECO | 1550 rpm |
| Engine speed if PTO 1000 | 2000 rpm |
| Engine speed if PTO 1000 ECO | 1550 rpm |
| Rotational direction | Clockwise |
| Clutch type | Multidisc hydraulic |
| Number of clutch discs | 4 |
| Control pressure | 21 bar (305 psi) |
| Splined shaft type | 6 or 21 x 1"3/8 (diameter 35 mm (1.4 in)) splines<br>or<br>20 x 1"3/4 (diameter 45 mm (1.8 in)) splines |

| Front power take-off | |
|---|---|
| Number of selections possible for front PTO | 1000 rpm |
| Maximum permissible power - clockwise | - |
| Maximum permissible power - anti-clockwise | 94 kW |
| Maximum permissible torque - clockwise | - |
| Maximum permissible torque - anti-clockwise | 900 Nm (664 lbf ft) |
| Rotational direction | Anti-clockwise |
| Engine speed if PTO 1000 | 2000 rpm |
| Ratio | 2 |
| Clutch type | Multidisc hydraulic |
| Splined shaft type | 6 or 21 x 1"3/8 (diameter 35 mm (1.4 in)) splines |

| Electric | |
|---|---|
| Battery brand | TAB |
| Battery specifications (2 batteries) | 12 V - 66 A/H |
| Maximum current at start-up (IEC standard) | 840 A |
| Starter type | 12 V |
| Starter power | 3 kW |
| Alternator type | 14 V/80 A or 14 V/120 A |
| Current available on ISOBUS connector | 50 A |

| Electronics | |
|---|---|
| DCC2 | Instrument panel |
| 4 AUTO 5 units | Transmission (x 2)<br>Linkage<br>Suspended front axle |
| SB 23 Bosch valves | Electrohydraulic spool valves |
| 1 Perkins ECM Tier 3 | Engine |
| 1 Sisu ECU Tier 3 | - |
| 1 Orbitrol Danfoss valve | - |
| Data 3 | Onboard computer |
| Automatic air conditioning module | Air conditioning |

| Cab | |
|---|---|
| Type of cab available | Fixed or suspended |
| Type of rear-view mirror control available | Manual or electric |
| Type of air conditioning control available | Manual or automatic |
| Type and brand of air conditioning compressor | Sanden with axial pistons |
| Compressor displacement | 154,9 $cm^3$ (9.45 $in^3$)/rev. |
| Refrigerant | R134a |
| Cab noise level | 71 DBA |
| Roof type | Standard or High Visibility |

# 2 Model 6455

| Engine | |
|---|---|
| Brand | Perkins |
| Type | 1104D E44TA |
| Nominal power (ISO TR14396) at 2200 rpm | 105 hp |
| Maximum power (ISO TR14396) at 2000 rpm | 112 hp |
| Maximum torque (ISO TR14396) | 463 Nm (341 lbf ft) |
| Maximum PTO power (OECD) at PTO 1000 rpm | 100 hp |
| Idle speed | 950 rpm |
| Maximum speed | 2350 rpm |
| Engine weight | 303 kg (668 lb) |
| Number of cylinders | 4 |
| Engine cubic capacity | 4,4 l (1.2 gal (US)) |
| Piston travel | 127 mm (5.0 in) |
| Piston diameter | 105 mm (4.1 in) |
| Compression ratio | 16.2:1 |
| Compression pressure | - |
| Injection pump brand | Delphi |
| Injection pump type | SF200HP |
| Firing order | 1-3-4-2 |
| Maximum pressure in the high-pressure system | 1600 bar |
| Injector brand | Delphi |
| Injector type | SF200 |
| Charge pump type | Mechanical, driven by the injection pump |
| Fuel prefilter filtration capacity | 20 µ |
| Main fuel filter filtration capacity | 2 µ |
| Low-pressure system pressure at minimum speed | 4 bar (58 psi) to 5 bar (73 psi) |
| Low-pressure system pressure at maximum speed | 4 bar (58 psi) to 5 bar (73 psi) |
| Recommended oil: | CI - 4 (ACEA and API) |
| Maximum operating tilt (precautions) | - |
| Oil/fuel consumption | Maximum 0.1% |
| Lubrication system | By gear pump |
| Oil cooling system | Radiator |
| Oil pressure at minimum speed | 3 bar (44 psi) |
| Oil pressure at maximum speed | 3,5 bar (51 psi) to 4,5 bar (65 psi) |
| Relief valve adjustment pressure | 4,5 bar (65 psi) |
| Air suction type | Turbo air/air |
| Air preheating type | Glow plugs |
| Number of valves | 4 per cylinder = 16 |
| Valve clearance value | 0,35 mm (0.01 in) +/- 0,05 mm (0.002 in) |
| Engine cooling system | Coolant |
| Fan type | Viscostatic |
| Thermostat begins to open at | 82 °C (180 °F) |
| Liquid temperature from - to | -35 °C (-31 °F) to 108 °C (226 °F) |

| Engine | |
|---|---|
| Block preheater | 110 or 220 volts |
| Fuel preheater | - |
| Internal EGR system | Yes |

| Transmission/rear axle | |
|---|---|
| Gearbox type | GBA25 |
| Transmission type | Dyna-6 |
| Number of ratios | 6 |
| Number of ranges | 4 |
| Number of gears | 24 |
| Creeper gears | 4/1 |
| Number of gears with creeper gears | 36/36 |
| Super creeper gears | 14/1 |
| Number of gears with super creeper gears | 48/48 |
| Maximum speed | 40 km/h (25 mile/h) |
| Rear axle type | GPA22 |
| Number of pinion/ring gear teeth | 8/39 |
| Rear axle ratio (crownwheel and pinion) | 24.750 |
| 4WD ratio | 1.04 |
| Final drive type | HD |
| Final drive reduction ratio | (53+13)/13 |
| Maximum 4WD clutch torque | 100 daNm (738 lbf ft) |
| Number of 4WD discs | 4 |
| Main brake type | Disc |
| Number of discs | 1 per trumpet housing |
| Braking pressure | - |
| Parking brake type | Hand brake |
| Trailer brake type | Hydraulics |
| Hydraulic trailer braking pressure | 0 to 150 bar (2176 psi) |
| Maximum operating tilt - pitch (front/rear) | 15° |
| Maximum operating tilt - roll (right/left) | 15° |
| Maximum operating tilt - combined | 15° |
| Transmission preheater | 110 V accessory kit available |
| Total loaded weight supported by rear axle - 40 km/h (25 mile/h) | 2WD = 6100 kg (13448 lb)<br>4WD = 6500 kg (14330 lb) assisted brakes, 6300 kg (13889 lb) non-assisted brakes |
| Total loaded weight supported by rear axle - 50 km/h (31 mile/h) | - |

| 4WD front axle and 2WD front axle | |
|---|---|
| 2WD front axle brand | LODI |
| Axle type | Fixed |
| Supplier reference | LODI 140 CP |
| Total loaded weight supported by front axle | 2800 kg (6173 lb) |
| 4WD front axle brand | DANA |

| 4WD front axle and 2WD front axle | |
|---|---|
| Axle type | Suspended or fixed |
| Supplier reference - fixed front axle | 720/527 |
| Supplier reference - suspended front axle | 730/604 (1 accumulator)<br>730/608 (2 accumulators) |
| Rotational direction | anti-clockwise |
| Total loaded weight supported by front axle - 40 km/h (25 mile/h) | 3300 kg (7275 lb) |
| Total loaded weight supported by front axle - 50 km/h (31 mile/h) | - |
| Recommended oil type (beam and final drive) | SAE 85 W 90 (API GL5) |
| Total ratio for fixed front axle | 18.975 |
| Total ratio for suspended front axle | 19.00 |
| Number of teeth on final drive | 14 x 27 x 70 |
| Ratio for fixed axle final drive | 4.6 |
| Ratio for suspended axle final drive | 6 |
| Number of fixed axle pinion/ring gear teeth | 8/33 |
| Number of suspended axle pinion/ring gear teeth | 12/38 |
| Differential type | Coupler |
| Number of discs on multidisc differential | - |
| Maximum steering angle | 55° |
| Oscillation angle | - |
| Type of oscillation stop | Mechanical |
| Steering ram diameter | 63 mm (2.5 in) x 32 mm (1.3 in) |
| Steering ram stroke | 2 x 125 mm (4.9 in) |
| Suspension type | Hydraulics |
| Suspension ram diameter | 65 mm (2.6 in) x 60 mm (2.4 in) |
| Suspension ram stroke | 100 mm (3.9 in) |
| Hydraulic control unit brand | Husco |
| Hydraulic control unit nominal pressure | 200 bar (2901 psi) |
| Number of accumulators | 1 accumulator (730/604)<br>2 accumulators (730/608) |
| Accumulator pressure | 1 accumulator 1 l (0.3 gal (US)) = 20 bar (290 psi)<br>2 accumulators:<br>– Left 0,5 l (0.1 gal (US)) = 10 bar (145 psi)<br>– Right 0,75 l (0.2 gal (US)) = 50 bar (725 psi) |
| Suspension sensor type | Angular potentiometer. |
| Steering sensor type (with Auto-Guide option) | - |
| Factor K | Fixed axle = 1.360<br>Suspended axle = 1.358 |

| Electrohydraulic | |
|---|---|
| System type | Open Centre (OC) 57 l/min (15.1 gal/min (US))<br>or<br>Closed Centre Load Sensing (CCLS) 110 l/min (29.1 gal/min (US)) |
| Flow rate | 57 l/min (15.1 gal/min (US)) (OC)<br>110 l/min (29.1 gal/min (US)) (CCLS) |
| High-pressure pump type | Bosch Rexroth gear pump (OC)<br>Bosch Rexroth piston pump (CCLS) |
| High-pressure pump displacement | 19 $cm^3$ (1.16 $in^3$) (OC)<br>45 $cm^3$ (2.75 $in^3$) (CCLS) |
| High-pressure pump rotational speed | 2200 rpm |
| High-pressure pump maximum flow rate | 57 l/min (15.1 gal/min (US)) (OC)<br>117 l/min (30.9 gal/min (US)) (CCLS) |
| High-pressure pump maximum pressure | 200 bar (2901 psi) |
| Maximum quantity of oil to add for heavy implements | 10 l (2.6 gal (US)) |
| Maximum exportable oil quantity (without adding oil) | 32 l (8.5 gal (US)) |
| Maximum exportable oil quantity (adding oil) | 42 l (11.1 gal (US)) |
| Charge pump type | Suction (OC)<br>Bosch Rexroth 71 $cm^3$ (4.33 $in^3$) gear pump (CCLS) |
| Main relief valve adjustment pressure | 195 bar (2828 psi) ± 5 bar (73 psi) (OC)<br>230 bar (3336 psi) ± 5 bar (73 psi) (CCLS) |
| Number of spool valves (maximum) | 4 |
| Number of front "push-pull" connectors (maximum) | 2 |
| Number of rear "push-pull" connectors (maximum) | 8 |
| Maximum flow rate per spool valve | 57 l/min (15.1 gal/min (US)) (OC)<br>100 l/min (26.4 gal/min (US)) (CCLS) |
| Spool valve control type | Mechanical or electrohydraulic (CCLS only) |
| Recommended oil: | According to MF CMS M 1145 specification |

| Steering | |
|---|---|
| Steering type | Hydrostatic |
| Type of control | Steering wheel |
| Orbitrol displacement | 2WD = 80 $cm^3$ (4.88 $in^3$)<br>4WD = 125 $cm^3$ (7.63 $in^3$) |
| Steering ram diameter | 63 mm (2.5 in) x 32 mm (1.3 in) |
| Steering ram stroke | 2 x 125 mm (4.9 in) |
| Working pressure | 175 bar (2538 psi) ± 5 bar (73 psi) |
| Pressure relief valve adjustment pressure | 175 bar (2538 psi) ± 5 bar (73 psi) |
| Shock valve adjustment pressure | 240 bar (3481 psi) |
| Oil recommended for steering | According to MF CMS M 1145 specification |

| Linkage | |
|---|---|
| Rear lift ram diameter | 66 mm (2.6 in) or 75 mm (3.0 in) |
| Rear linkage travel | 696 mm (27.4 in) or 702 mm (27.7 in) |
| Maximum lifting capacity at ball joints (rear) | 5850 kg (12897 lb) (rams 66 mm (2.6 in))<br>7100 kg (15653 lb) (rams 75 mm (3.0 in)) |

| Linkage | |
|---|---|
| Operating pressure (rear) | 180 bar (2611 psi) |
| 3-point linkage category (rear) | CAT2 or CAT3 |
| Front lift ram diameter | 70 mm (2.8 in) |
| Front linkage travel | - |
| Maximum lifting capacity at ball joints (front) | 2500 kg (5512 lb) |
| Operating pressure (front) | 180 bar (2611 psi) |
| 3-point linkage category (front) | CAT2 |

| Rear power take-off (PTO) | |
|---|---|
| Number of selections possible for rear PTO | 540/1000<br>540/1000/540 ECO/1000 ECO with GSPTO option |
| Maximum permissible power 540/540 ECO in 1"3/8 (6 and 21 splines) | 540 = 73 kW / 540E = 40 kW |
| Maximum permissible power 540/540 ECO in 1"3/4 (20 splines) | 540 = 80 kW / 540E = 40 kW |
| Maximum permissible power 1000/1000 ECO in 1"3/8 (6 and 21 splines) | 1000 = 73 kW / 1000E = 40 kW |
| Maximum permissible power 1000/1000 ECO in 1"3/4 (20 splines) | 1000 = 73 kW / 1000E = 40 kW |
| Engine speed if PTO 540 | 1980 rpm |
| Engine speed if PTO 540 ECO | 1550 rpm |
| Engine speed if PTO 1000 | 2000 rpm |
| Engine speed if PTO 1000 ECO | 1550 rpm |
| Rotational direction | Clockwise |
| Clutch type | Multidisc hydraulic |
| Number of clutch discs | 5 |
| Control pressure | 21 bar (305 psi) |
| Splined shaft type | 6 or 21 x 1"3/8 (diameter 35 mm (1.4 in)) splines<br>or<br>20 x 1"3/4 (diameter 45 mm (1.8 in)) splines |

| Front power take-off | |
|---|---|
| Number of selections possible for front PTO | 1000 rpm |
| Maximum permissible power - clockwise | - |
| Maximum permissible power - anti-clockwise | 94 kW |
| Maximum permissible torque - clockwise | - |
| Maximum permissible torque - anti-clockwise | 900 Nm (664 lbf ft) |
| Rotational direction | Anti-clockwise |
| Engine speed if PTO 1000 | 2000 rpm |
| Ratio | 2 |
| Clutch type | Multidisc hydraulic |
| Splined shaft type | 6 or 21 x 1"3/8 (diameter 35 mm (1.4 in)) splines |

| Electric | |
|---|---|
| Battery brand | TAB |
| Battery specifications (2 batteries) | 12 V - 66 A/H |
| Maximum current at start-up (IEC standard) | 840 A |
| Starter type | 12 V |
| Starter power | 3 kW |
| Alternator type | 14 V/80 A or 14 V/120 A |
| Current available on ISOBUS connector | 50 A |

| Electronics | |
|---|---|
| DCC2 | Instrument panel |
| 4 AUTO 5 units | Transmission (x 2)<br>Linkage<br>Suspended axle |
| SB 23 Bosch valves | Electrohydraulic spool valves |
| 1 Perkins ECM Tier 3 | Engine |
| 1 Sisu ECU Tier 3 | - |
| 1 Orbitrol Danfoss valve | - |
| Data 3 | Onboard computer |
| Automatic air conditioning module | Air conditioning |

| Cab | |
|---|---|
| Type of cab available | Fixed or suspended |
| Type of rear-view mirror control available | Manual or electric |
| Type of air conditioning control available | Manual or automatic |
| Type and brand of air conditioning compressor | Sanden with axial pistons |
| Compressor displacement | 154,9 $cm^3$ (9.45 $in^3$)/rev. |
| Refrigerant | R134a |
| Cab noise level | 71 DBA |
| Roof type | Standard or High Visibility |

Thank you so much for reading.

Please click the “Buy Now!” button below to download the complete manual.


After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email:

ebooklibonline@outlook.com