	621G	421G	521G	651G	721G	821G	921G	1021G	1121G
ENGINE									
Maker & Model	FPT N67	F5C	FPT N45	FTP N67	FPT N67	FPT N67	FPT N67	FPT Cursor 9	FPT Cursor 9
No. of cylinders	6	4	4	6	6	6	6	6	6
Displacement (l)	6.7	3.6	4.5	6.7	6.7	6.7	6.7	8.7	8.7
Air intake	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	Turbocharged with Waste Gate	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed
Injection	Common Rail Multiple Injection	High pressure common rail	Common Rail Multiple Injection	Common Rail Multiple Injection	Common Rail Multiple Injection	Common Rail Multiple Injection	Common Rail Multiple Injection	Common Rail Multiple Injection	Common Rail Multiple Injection
After Treatment System	HI-eSCR 2 (DOC+SCRoF)	SCR-T	HI-eSCR 2 (DOC+SCRoF)	HI-eSCR 2 (DOC+SCRoF)	HI-eSCR 2 (DOC+SCRoF)	HI-eSCR 2 (DOC+SCRoF)	HI-eSCR 2 (DOC+SCRoF)	HI-eSCR 2 (DOC+SCRoF)	HI-eSCR 2 (DOC+SCRoF)
Emission level	Compliant with EU Stage V	Stage V	Compliant with EU Stage V	Compliant with EU Stage V	Compliant with EU Stage V	Compliant with EU Stage V	Compliant with EU Stage V	Compliant with EU Stage V	Compliant with EU Stage V
Maximum power (kW)	128/121	72	106/99	128/121	145	172	190	239	250
Maximum power (hp)	172/162	97	142/133	172/162	195	230	255	320	347
@ Engine speed (ISO 14396) (rpm)	1800	2200 (Rated Engine Power) / 2000 (Peak Engine Power)	1800	1800	2000	1800	1600	1800	1800
Maximum Torque (Nm)	730/692	1400	612/586	730/692	950	1184	1300	1479	1604
@ Engine speed (ISO 14396) rpm	1600	-	1600	1600	1300	1300	1300	1100	1100
TRANSMISSION									

Proshift	5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch Proportional declutching.	-	5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch Proportional declutching.	5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch: Proportional declutching.	5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch Proportional declutching.	5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch Proportional declutching.	5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch Proportional declutching.	-	-
Forward 1 (km/h)	7	-	-	7	7	7	6	-	-
Forward 2 (km/h)	13	-	-	13	13	11	11	-	-
Forward 3 (km/h)	20	-	-	20	19	17	17	-	-
Forward 4 (km/h)	31	-	-	31	30	26	26	-	-
Forward 5 (km/h)	45	-	-	45	40	40	40	-	-
Reverse 1 (km/h)	7	-	-	7	8	7	7	-	-
Reverse 2 (km/h)	14	-	-	14	14	12	12	-	-
Reverse 3 (km/h)	32	-	-	32	31	28	28	-	-
4-speed ZF Powershift	with Intelligent Clutch Cut Off (ICCO)	-	with Intelligent Clutch Cut Off (ICCO)	with Intelligent Clutch Cut Off (ICCO)	with Intelligent Clutch Cut Off (ICCO)	with Intelligent Clutch Cut Off (ICCO)	with Intelligent Clutch Cut Off (ICCO)	with Auto-Shift system and Intelligent Clutch Cut Off (ICCO)	with Auto-Shift system and Intelligent Clutch Cut Off (ICCO)
Forward 1 (km/h)	7	-	6	7	8	7	7	7	7
Forward 2 (km/h)	13	-	11	13	13	12	12	13	12
Forward 3 (km/h)	24	-	22	24	25	23	23	19	18
Forward 4 (km/h)	39	-	36	39	37	37	36	38	38
Reverse 1 (km/h)	7	-	6	7	8	7	7	7	7

Reverse 2 (km/h)	14	-	12	14	13	13	13	13	13
Reverse 3 (km/h)	25	-	23	25	26	25	25	27	25
AXLES									
Heavy Duty ZF Axles with Limited Slip Differential on both front and rear axle	yes	Standard	n.a.	yes	yes	yes	n.a.	n.a.	n.a.
Heavy Duty ZF Axles with automatic 100% differential lock on front and open	yes	Optional	yes	yes	yes	yes	yes	Yes	Yes
Standard ZF Axles with Limited Slip Differential on both front and rear axle	yes	n.a.	yes	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Heavy Duty ZF Axles with automatic 100% differential lock on front and LSD on rear axle	yes	n.a.	n.a.	yes	yes	yes	n.a.	n.a.	n.a.
Axles oscillation angle (total)	24°	10°	24°	24	24°	24°	24°	24°	24°
TIRES									
Standard tire's size	20.5R25	17.5 R25 L3	17.5R25	20.5R25	20.5R25	23.5R25	23.5R25	26.5R25	26.5R25
BRAKES									
Service brake	Maintenance free, self-adjusting wet 4-wheel disc brakes	Wet service brake on front and rear axle	Maintenance free, self-adjusting wet 4-wheel disc brakes	Maintenance free, self-adjusting wet 4-wheel disc brakes	Maintenance free, self-adjusting wet 4-wheel disc brakes	Maintenance free, self-adjusting wet 4-wheel disc brakes	Maintenance free, self-adjusting wet 4-wheel disc brakes	Maintenance free, self-adjusting wet 4-wheel disc brakes	Maintenance free, self-adjusting wet 4-wheel disc brakes
Brake disc area (m^2/hub)	0,39	n.a.	0,31	0.39	0.39	0.39	0.47	0.74	0.74

Parking brake	With the negative brake all four wheels are automatically stopped when the engine is stopped	Spring applied hydraulically released (SAHR)	With the negative brake all four wheels are automatically stopped when the engine is stopped	With the negative brake all four wheels are automatically stopped when the engine is stopped	With the negative brake all four wheels are automatically stopped when the engine is stopped	With the negative brake all four wheels are automatically stopped when the engine is stopped	With the negative brake all four wheels are automatically stopped when the engine is stopped	With the negative brake all four wheels are automatically stopped when the engine is stopped	With the negative brake all four wheels are automatically stopped when the engine is stopped
Parking disc brake area (cm²)	58	n.a.	58	58	82	82	82	82	82
HYDRAULICS									
Loader control valve	Bosch-Rexroth, closed center, load sensing/flow sharing.	Closed-center circuit.	Bosch-Rexroth, closed center, load sensing/flow sharing.	Bosch-Rexroth, closed center, load sensing/flow sharing.	Bosch-Rexroth, closed center, load sensing/flow sharing.	Bosch-Rexroth, closed center, load sensing/flow sharing.	Bosch-Rexroth, closed center, load sensing/flow sharing.	Bosch-Rexroth, closed center, load sensing/flow sharing. 3 spool main control valve.	Bosch-Rexroth, closed center, load sensing/flow sharing. 3 spool main control valve.
Steering	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Two hydrostatic cylinders controlled by a hydrostatic steering gear with relief on steering line and flow control	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.
Loader controls	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Oil supplied to the integrated steering/loader hydraulic system by a variable displacement pump	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.
Pump type	Single, variable displacement	Variable displacement pump with closed center	Single, variable displacement	Single, variable displacement	Single, variable displacement	Tandem. var. displ.	Tandem. var. displ.	Tandem, variable displacement	Tandem, variable displacement
Max oil flow (l/min)	169	n.a.	134	190	206	236	278	348	376
@ engine speed (rpm)	2000	n.a.	2000	2000	2000	2000	2000	2000	2000
AUXILIARY HYDRAULIC									
Max oil flow (l/min)	169	125	134	188	206	236	278	240	240
Max pressure (bar)	249-255	200	249-255	249-255	249-255	249-255	249-255	249/255	249/255
SERVICE CAPACITIES									

Fuel tank (l)	248	118	189	248	246	288	288	459	288
DEF (AdBlue®) tank (l)	41.3	21.5	41.3	41.3	41.3	41.3	41.3	65	65
Engine coolant (l)	27	13.9 + 13,9	22	27	28	30	30	57	57
Engine oil (l)	13	7	12	13	13	13	13	26	26
Hydraulic oil tank (l)	91	74	57	91	91	91	91	134	134
Total hydraulic system oil (l)	148	n.a.	114	148	180	180	200	250	250
Front and Rear Axles (l)	22+22	7.5	22+22	22+22	35+35	40+40	42+40	68+68	68+68
Transmission oil (l)	27	n.a.	19	27	34	34	34	45	45
CAB PROTECTION									
Protection against falling objects (FOPS)	According to ISO EN 3449 std.	According to ISO 3449:2005	According to ISO EN 3449 std.	According to ISO EN 3449 std.	According to ISO EN 3449 std.	According to ISO EN 3449 std.	According to ISO EN 3449 std.	According to ISO EN 3449 std.	According to ISO EN 3449 std.
Protection against roll-over (ROPS)	According to ISO EN 13510 std.	According to ISO 3471:2008	According to ISO EN 13510 std.	According to ISO EN 13510 std.	According to ISO EN 13510 std.	According to ISO EN 13510 std.	According to ISO EN 13510 std.	According to ISO EN 13510 std.	According to ISO EN 13510 std.
NOISE AND VIBRATION									
Inside the cab - LpA (ISO 6396-2008) dB	68	71	68	68	68	68	69	68	69
Outside - LwA (2000/14/EC) (dB)	104	103	102	104	103	104	104	105	104
Vibrations	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	n.a.	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	Operator's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²	Operator 's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s²
ELECTRICAL SYSTEM									
System voltage (V)	24	n.a.	24	24	24	24	24	24	24

Batteries (n° x V)	2 x 12	n.a.	2 x 12	2 x 12	2 x 12	2 x 12	2 x 12	2 x 12	2 x 12
Alternator – capacity (A)	120	14 V - 160 A	70	120	120	120	120	120	120