ENGINE PERFORMANCE											
Stage III certified acc. 97/68/EC	**5080G**	**5090G**	**5085M OOS***	**5095M OOS***	**5070M**	**5080M**	**5090M**	**5100M**	**5080R**	**5090R**	**5100R**
Rated Power (97/68 EC), kW (hp)	59 (80)	66 (90)	63 (85)	71 (95)	51(70)	59 (80)	66 (90)	74 (100)	59 (80)	66 (90)	74 (100)
Max. Power (97/68 EC), kW (hp)	60 (81)	67 (91)	64 (85)	72 (96)	52 (71)	60 (81.5)	67.3 (91.5)	75.5 (102)	64 (87)	72 (98)	79 (108)
Rated Speed, rpm	2300	2300	2200	2200	2200	2200	2200	2200	2300	2300	2300
Rated Power (ECE-R24, kW (hp)	54.5 (74)	62 (84)	–	–	48.6 (66)	56.1 (76)	63 (86)	70.6 (96)	56 (76)	63 (86)	71 (96)
Max. Power (ECE-R24, kW (hp)	55.5 (75.5)	62 (85)	–	–	50.3 (68.4)	58.1 (79)	65.2 (88.7)	73.1 (99.5)	61 (83)	69 (94)	77 (104)
Max. torque (97/68 EC), Nm / Constant Power Range, rpm	325 / 500	365 / 500	331	372	291 / 340	337 / 340	373 / 340	390 / 340	334 / 550	376 / 550	416 / 550
Type	PowerTech M, mechanical injection, 2 Valve, Stage III A Emissions Certified		PowerTechM Mechanical Injection, 2 Valve, Stage III A Emissions Certified		PowerTech M, mechanical injection, Stage III A Emissions Certified ; Turbocharger with ChargeAircooler				PowerTech E, CommonRail, 2 Valve, Stage III A Emissions Certified		
Cylinder/Displacement	4/4525		4/4525		4/4525				4/4525		
Cooling fan drive	Temperature controlled viscous fan		Temperature controlled viscous fan		Temperature controlled viscous fan				Temperature controlled viscous fan		
Fuel Injection system & Control:	mechanical injection		Mechanical Injection with aneroid device		Mechanical Injection with aneroid device				High Pressure CommonRail		
Fuel Tank Capacity in liters	96 (Optional 80)		144		130 (Optional 150)				130 (Optional 150)		
TRANSMISSION OPTIONS											
Clutch	Heavy duty dry clutch, 280 mm diameter disc in Base, optional: PowerReverser Multi disc wet clutch, 135 mm diameter discs		Oil cooled wet disc, electro hydraulic base equipment		Oil-cooled , wet disc; Electro hydraulic as base equipment on all transmissions				Oil-cooled PermaClutch II, 225 mm diameter discs, base equiment		
Parking lock	No		base equipment		base equipment				base equipment		
TRANSMISSION OPTIONS	12F/12R Syncro Reverser 1.4 – 30 km/h		16/16 PowrReverser		16/16 SyncReverser				16/16 PowerQuad Plus 3.3 – 40 km/h		
	24F/24R Syncro Reverser with mechanical Hi-Lo 0.5 – 40 km/h		32/16 PowrReverser Plus		16/16 PowrReverser				16/16 AutoQuad Plus with 16/16 Underdrive 1.5 – 40 km/h		
	24F/24R Syncro Reverser with electro-hydraulic Hi-Lo 0.5 – 40 km/h				32/16 PowrReverser Plus				16/16 AutoQuad Plus 3.3 – 40 km/h		
	24F/12R PowerReverser electro-hydraulic Hi-Lo and de-clutch button 0.5 – 40 km/h								16/16 AutoQuad Plus with 16/16 Underdrive 1.5 – 40 km/h		
Reverser types	mechanical Reverser on 12F/12R and 24F/24R Syncro Reverser transmissions; electrical left hand reverser on PowerReverser transmission only		Electronic PowrReverser		Electronic Syncreverser and Electronic PowrReverser						
Speeds	4 Gears + 3 Ranges		4 Gears + 4 Ranges on all transmissions		4 Gears + 4 Ranges on all transmissions				4 Gears + 4 Ranges on all transmissions		
Electro-Hydraulic HiLo	Option		2 speed electro-hydraulic Hil Lo as option		2 speed electro- hydraulic HiLo as option				–		
Creeper	Yes		Optional 0.3 – 1.6 km/h		Optional 0.3 – 1.6 km/h				Optional 1.5 – 40 km/h		
Creeper Gears	–		Additional 8F/8R on 16/16PR or additional 16F/8R on 32/16PR+		Additional **8F/8R** on 16/16SR and 16/16PR or additional **16F/8R** on 32/16PR+				16/16 Underdrive		
Lever	2 Lever shifting		2 Lever shifting						1 Lever shifting, De Clutch button, Soft shift, Speed matching, CruiseControl in Base, Automatic Shift point control (AutoQuad)		
De Clutch button	on PowerReverser transmission only		N/A						Yes	Yes	Yes
Soft shift	No	No							Yes	Yes	Yes
Speed matching	No	No							Yes	Yes	Yes
PTO-REAR											
PTO Clutch	Mechanical, Servo assisted or electro hydraulic engagement		Electro-hydraulically operated oil-cooled multi-disc		Electro-hydraulically operated oil-cooled multi-disc				Electro-hydraulically operated oil-cooled multi-disc		
Engine rpm at rated PTO speed:	–		Electro hydraulic as base equipment on PowrReverser transmissions		Electro hydraulic as base equipment on all transmissions				–		
540/540E PTO with 6 Spline Shaft, rpm	1938 / 1648		540/540E or 540/540E/1000		540/540E				2097 / 1701		
540/540E/1000 PTO with Reversible 6 & 21 Spline Shaft, rpm	1938 / 1962 (540/1000 PTO 6 spline only)		–		540/540E/1000				2097 / 1697 / 2074		
PTO Remote control	–		–		Base equipment on LH fender (optional on RH fender)				Optional on LH or RH fenderonal on RH fender		
PTO-FRONT											
Type	N/A		Electro-hydr. operated oil cooled multi-disc clutch		Electro-hydr. operated oil cooled multi-disc clutch				Electro-hydr. operated oil cooled multi-disc clutch		
Speed, rpm	–		1000		1000				1000		
Rotation	–		Counterclockwise		Counterclockwise				Counterclockwise		
HYDRAULIC SYSTEM											
Maximum Flow in liters/min	71 with 190 bar (24 l/min + 47 l/min) Optional 84 with 190 bar (24 l/min + 60 l/min)		94 with 200 bar (24 l/min +70 l/min)		74 with 200 bar (24 l/min + 50 l/min) Optional 94 with 200 bar (24 l/min + 70 l/min)				Maximum Flow 56 or 65 with 200 bar		
Type	Open center		Open Center with Tandem Pump		Open Center with Tandem Pump				Load sensing with constant flow pump (PC=pressure compensated)		
Maximum SCV's	3		3 in the rear and 3 at mid mount couplers		3 in the rear + 2 for mid mounted couplers				3		
Mid mounted couplers	No		Optional (including Joystick Control		Option (incl Joystick control)				Option		

*Not available in UK & Ireland

ENGINE PERFORMANCE											
3-POINT HITCH – Rear	**5080G**	**5090G**	**5085M OOS**	**5095M OOS**	**5070M**	**5080M**	**5090M**	**5100M**	**5080R**	**5090R**	**5100R**
Hitch Control	Mechanical in base / Electronic optional		–		–				–		
Sensing Type	Mechanical center link		Electronic lower link (EHC) or Mech Lower link		Electronic lower link (EHC) or Mech lower link (MHC)				Electronic lower link		
Sensing Modes	Load & depth control, infinite mix, float		Load and depth control, infinite mix, and float		Load & depth control, infinite mix, float, float				Load & depth control, infinite mix, float		
Control Modes (EHC)	Height limiter, rate of drop, quick raise & lower; hitch dampening r		Height limiter, rate of drop, quick raise & pull-in; hitch dampening		Height limiter, rate of drop, quick raise&pull-in; hitch dampening				Height limiter, rate of drop, quick raise&pull-in; hitch dampening		
Control Modes (MHC)	–		Height limiter, rate of drop		Height limiter, rate of drop				–		
Maximum Lift Capacity at Hooks	26 kN		15.2 kN		36 kN				42 kN		
Hitch remote control	Optional with mechanical hitch control / base equipment on lh fender with electronic hitch control		optional on lh Electronic Hitch Control		optional on lh or lh+rh fender for Electronic Hitch Control				optional on lh fender or rh fender		
FRONT HITCH											
Max lift capacity, kN	–		–		29				29		
AXLES											
Axle Types	2WD or MFWD		MFWD		2WD or MFWD				MFWD		
Engagement 4WD	Mechanical or Electro-hydraulically		Electro-hydraulically operated		Electro-hydraulically operated				Electro-hydraulically operated, oil cooled clutch		
Engagement Front Differential Lock	Automatic self-locking under full load		–		–				Automatic self-locking under full load		
Engagement Rear Differential Lock	Mechanical or Electro-hydraulically		Electro-hydr. operated, oil-cooled multi-disc		Electro-hydraulically operated, oil-cooled multi-disc				Electro-hydraulically operated, oil-cooled multi-disc		
Steering angle in °	55		55		–				–		
BRAKES											
Foot Brake	Oil-cooled discs, self-equalizing, self-adjusting		Oil-cooled discs, self-equalizing, self-adjusting		Oil-cooled discs, self-equalizing, self-adjusting				Oil-cooled discs, self-equalizing, self-adjusting		
Park Lock	–		base equipment		base equipment				base equipment		
4WD Braking	Automatic MFWD engagement on 40Km/h transmissions		Automatic MFWD on transmissions		Automatic MFWD engagement				Automatic 4WD engagement		
CAB											
Type	Liftable cab; 320° all-round vision; Optional telescoping and tiltable steering column/wheel; 1mb Cab pressurisation		Isolated Open Operator Station		7"Tiltable cab; 310° all-round vision; telescoping and tiltable steering wheel; 2 storage compartments; opt. FieldOffice				Tiltable cab; 310° all-round vision; telescoping and tiltable steering column/wheel; 2 storage compartments; opt. FieldOffice		
Sound Level under Full Load in dB (A)	81 (86 OOS)		86		–				74		
Service	Liftable cab		–		–				Tiltable cab (Standard and Low Profile)		
Display	Single instrument panel		–		–				Dual Gauge II Premium panel and additional info-display in rh B-post		
Storage	–		–		Storage compartments with cup holders;				Storage compartments with cup holders;		
Important Options	Air Conditioning; openable front windshield;		Loader packages with mid-mounted couplers and joystick;		Loader packages with mid-mounted couplers and joystick;				Loader packages with mid-mounted couplers and joystick;		
	2 beltline H4 lights		–		AC; tiltable windshield; hydr.toplink; automatic stabilizers				AC; Low Profile cab; tiltable windshield;		
	Cupholder		–		4 working lights front and 4 rear; roof hatch with glass; Corner post exhaust				4 working lights front and 4 rear; roof hatch with glass;		
	Open Operator Station (OOS)		–		FieldOffice; hydraulic trailer brake system; Airbrake system				Electronic operator assistence package HMS II; FieldOffice;		
CHASSIS											
Structure	Block construction		Mid Frame Design		Short Frame Design				Full steel frame		
Engine Mounting	–		–		4 vibration absorbing bearings				4 vibration absorbing bearings		
Turning Radius, m	–		3.48 m		–				3.48 m		
DIMENSIONS AND WEIGHTS											
Wheelbase, mm	(2185) 2178				2250				2250		
Overall Height Standard Cab / Low Profile Cab, mm	2364 / 2627(2 post ROPS) / 2304 (4 post ROPS)				2595				2595 / 2540 (low Profile Cab)		
With Tyre Size, Rear/Front	16.9R30/11.2R24				16.9R34/13.6R24				12.4R36/11.2R20		
Center of Rear Axle to Top of Cab Roof, mm	1704 / 1967(2 post ROPS / 1644 4 post ROPS)				1850				1850		
Ground Clearance 4WD, Center, mm	400		390		390				390		
Overall Width, mm	2018								1860 (front axle)		
Overall Length with Base Weight, mm	3886								3950		
Minimum Shipping Weight, kg	3215 MFWD / 2940 ROPS				3700				3700		
Maximum Permissible Gross weight at 40 km/h, kg	5100				MFWD Versions: 6100; 2WD Versions: 5850				6600		
JOHN DEERE LOADERS COMPATIBLE WITH THE 5R SERIES											
Model 533	MSL/NSL	MSL/NSL	N.A.	N.A.	MSL/NSL	MSL/NSL	MSL/NSL	MSL/NSL	MSL/NSL	MSL/NSL	MSL/NSL
Model 583	MSL/NSL	MSL/NSL	N.A.	N.A.	HSL/MSL/NSL	HSL/MSL/NSL	HSL/MSL/NSL	HSL/MSL/NSL	HSL/MSL/NSL	HSL/MSL/NSL	HSL/MSL/NSL
Model 633	NSL	NSL	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	HSL/MSL/NSL	HSL/MSL/NSL	HSL/MSL/NSL
Model 563	N.A.	N.A.	MSL	MSL	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SERVICE INTERVALS AND QUANTITIES											
Engine Oil in liters	8, 250 h		10, 300 h		–	–	–	–	500 h		
Engine Coolant in liters	13, 2000 h		11.4, 3000 h		–	–	–	–	16, 3000 h		
Transmission, Final Drive and Hydraulic Oil in liters	38 – (36) 37.5, 1250 h		42, 600 h		–	–	–	–	55, 1500		