

ENGINE

Item	Performance	
	CAT	CUMMINS
Model	3306B (C6121ZG19)	6CTA8.3-615
Type	Straight-lined, water cooled, direct injection	Straight-lined, water cooled, direct injection
Rated power	162 kW/217 HP	160kW/214 HP
Rated rpm	2200 rpm	2200 rpm
Displacement	10.45 L	8.3 L
Cylinder No.	6	6
Cylinder bore/stroke	121/152.4 mm	114/135 mm
Min. fuel consumption	≤235g g/kW.h	≤233 g/kW.h
Max. torque	843 Nm	908 Nm

TRANSMISSION

Item	Performance					
	Torque converter	Type ZF	Circulated, water cooled			
Torque ratio		2:55				
Cooling system		Circulated, water cooled				
Inlet oil pressure		123 Psi				
Outlet oil pressure		72 Psi				
Travel speed	Speeds	I	II	III	IV	
	Forward(km/h)	0-6.5	0-11.5	0-23	0-36	
	Reverse(km/h)	0-6.5	0-11.5	0-23	--	
Transmission	Type	Dead axle electrohydraulic shift				
	Shift	Forward 4 Reverse 3				
	Transmission ratio	Forward I	4:278			
		Forward II	2:368			
		Forward III	1:126			
		Forward IV	0:648			
		Reverse I	4:278			
		Reverse II	2:368			
	Reverse III	1:126				
	Working pressure	203-232 Psi				
Main drive	Type	Single stage, spur gear				
	Gear ratio	3:7				
Final drive	Type	Single stage, planetary shift				
	Gear ratio	6:35				
Driving axle and tyre	Type	ZF driving axle and planetary				
	Tyre specification	23.5 x 25				
	Tyre pressure	Front wheel	48-51 Psi			
Rear wheel		40-43 Psi				
Brake system	Service brake	Internal wet brake				
	Service brake	65-99 Psi				
	Parking brake	Internal expansion type brake				

WORKING SYSTEM

Item	Performance
Type	Single lever hydraulic pilot control
Boom cylinder- cylinder borexpiston rod diameterxstroke	165x90x767 mm
Bucket cylinder- cylinder borexpiston rod diameterxstroke	180x90x538 mm
Pump	CBGj3100C
Multiple directional control valve type	D32-18
Working pressure	2610 Psi
Lifting time(max. load)x	≤5.5s
Lowering time(empty)x	≤3.0s
Dumping time (empty)	≤1.2s
Total	≤9.7s

SERVICE REFILL CAPACITIES

Item	Performance	Item	Performance
Fuel	300L	Engine	20L
Hydraulic oil	200L	Gear box	35L
Axles (main drive and final drive)	32L	Brake system	4L

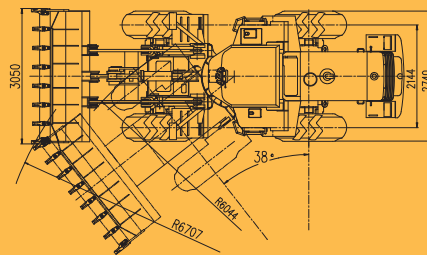
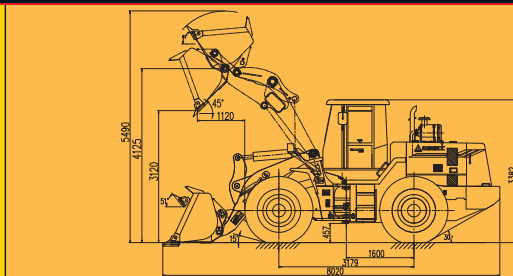
STEERING SYSTEM

Item	Performance
Type	Full-hydraulic articulated steering
Steering cylinder-cylinder borexpiston rod diameterxstroke	90x50x424 mm
Redirector	BZZ-100
Steering angle	38°
Working pressure	2030 Psi

DIMENSIONS

Item	Performance	Item	Performance
Length (With bucket on ground)	8020 mm	O/s to o/s width of wheels	2740 mm
Height	3382 mm	Wheel centre to wheel centre	2144 mm
Max. dumping height (-45° dump angle)	3120 mm	Front wheel to bucket edge	1120 mm
Bucket width	3050 mm	Wheelbase (front/back)	3200 (1600/1600) mm

DIMENSIONS OF 959



959

ZF transmission and ZF axles

RANGER



FEATURES

- Cat 3306B or Cummins 6CTA8.3-615 engine
- ZF transmission
- ZF axles and internal wet braking system
- A/C ROPS cabin with pillarless wrap around windscreen for maximum visibility
- Single lever hydraulic pilot control
- 2 years or 2000 hours warranty

OPTIONS

- Optional hydraulic quick hitch
- Optional full powered hydraulic 3rd function
- Optional extended loader arms (+300 mm or +429 mm)
- Optional auto weighing equipment
- Optional auto greasing system
- Large range of practical attachments available

SPECIFICATIONS

Item	Performance
Engine horse power	164 kW / 220 HP at 2300 rpm
Max. traction force	≥150.0 kN
Operating weight	16,400kg/16.4t
Standard bucket capacity	3.0 m ³
Rated load	5000 kg
Max. brakeout force	≥160.0 kN / 16,320 kg / 16.32t
Static tipping load	≥100.0 kN / 10,200 kg / 10.2t
Min. turning radius outside rear wheel	6044 mm
Min. turning radius outside bucket	6707 mm