

Doosan

DL220-5

ENGINE:	<p>Doosan DL06: Turbo Charged, Air to Air Intercooled, T4F</p> <p>Electronically Controlled Common Rail Direct Injected</p> <p>160 SAE Gross Flywheel Horsepower @ 2,100 RPM</p> <p>360 cu.in., 6 Cylinder</p> <p>Air Cleaner: Dry Type (Double Stage)</p> <p>Engine Self Diagnostic System</p> <p>Plastic Reversible Fan Driven by Hydraulic Fan Motor</p> <p>Auto Idle</p> <p>Auto Shut Down</p>
HYDRAULIC SYSTEM:	<p>Variable Displacement Axial Piston Pump</p> <p>Closed-Center (LS) Hydraulic Systems with Variable Pumps, Pilot Control with Float Spool, 3 Spools</p> <p>3rd Valve with Lines & Control (lines terminate at boom base)</p> <p>Automatic Boom / Lift - Kick-Out (Set and Adjust from inside the cab)</p> <p>Return-to-Dig Position (Adjustable Electro-Magnetic Switch outside cab)</p> <p>Accumulator for Emergency Pilot System</p>
BRAKE SYSTEM:	<p>Dual Pedal Braking system</p> <p>4 Wheel Outboard Wet Disc Brakes with Separate Front & Rear Circuits</p> <p>Accumulator for Emergency Stopping</p> <p>Parking Brake: Spring Apply Hydraulic Release, sliding caliper disc brake on the face of the transmission</p>
STEERING:	<p>Load Sensing Type with a Flow Amplifier and a Priority Valve</p> <p>40 Degree Articulation, Full Hydraulic Power Steering</p> <p>Steering Cylinder Cushion Valve</p> <p>Tilt and Telescopic Steering Wheel</p>
	<p>Air Conditioner</p> <p>Heater & Defroster</p> <p>Double Filtered Air Cab</p> <p>Combination Lever</p> <p>Accelerator Pedal</p> <p>Transmission Lever</p> <p>Rear Hinged & Locking Doors (Both sides) / Right side is emergency access door</p> <p>Radio, AM-FM Stereo, MP3, with CD</p>

Switches:

Transmission Shift Switch (Manual, Auto 1-4 and Auto 2-4)

Economy Mode Switch (Power, Normal & Economy Modes)

Headlight Switch

Front Work Light Switch

Rear Work Light Switch

Rear Wiper Switch

Pilot Cutoff Switch

Parking Brake Switch

Transmission Cutoff Switch

Mirror Heater Switch

Reverse Fan Switch

Display Screen Control Switch

Display Screen Selector Switch

Hazard Warning Light Switch

Boom Kick Out Switch

DESOX Switch

Rear View Mirrors with Heat

Safety Glass, Tinted

Fully Adjustable Air Suspension Seat

Seat Belt (2 in. Wide)

Sliding Door Windows (Left Side)

Sound Suppression

Sun Visor

Windshield Wipers & Washers - Front and Rear

Digital Clock

Arm Rest

12 Volt Power Supply

Cup Holders

Cigarette Lighter

Sun Glass Holder

Full Automatic Power Shift

CAB WITH ROPS:

4 Forward & 3 Reverse Speeds

Differentials - US10 = Limited Slip Front and Rear

US11 = Hydraulic Locking Front & Conventional (Open) Rear

US20 = Limited Slip Front and Rear

TRANSMISSION / AXLES:

US21 = Hydraulic Locking Front & Conventional (Open) Rear

Self Adjusting Brake Disc Clearance

Torque Converter, Fixed Wheel Stator

Electrical T/M Clutch Disconnect with Service Brake

T/M Down Shift on Shift Control and Joy Stick Control

Transmission Oil Level Gauge

Alternator, 80 Amp., 24 Volt

Batteries, (2) 12 Volt, 100 AH, 900 CCA

Starter, 24 Volt 6 kw

Horn

Hour Meter

Lights:

(2) Front Headlights with High / Low Beams

(2) Stop Lights, Tail Lights & Directional Indicators

(2) Front & Rear Floodlights

Alarm Buzzer for:

Transmission Overheat

Engine Oil Pressure

Coolant Temperature

Electronic Monitoring & Display for:

Fuel Level Gauge

Engine Coolant Temperature Gauge

Transmission Oil Temperature Gauge

Speedometer

Tachometer

ECO Bar

Transmission Actual Gear

ELECTRICAL:

Transmission Gear Select

Preheat Indicator Light

Air Cleaner Clogging Warning Light

Multi Function Gauge (can display one of the following at a time)

 Trip Meter

 Battery Voltage

 Total Time of Operation

Left Turn and Hazard Warning Light

Right Turn and Hazard Warning Light

High Beam Indicator Light

Work Light Indicator Light

Reverse Fan Indicator Light

Mirror Heater Indicator Light

Parking Brake Indicator Light

F/R (Forward/Reverse) Selector Indicator Light

Brake Fluid Pressure Warning Light

Charge Warning Symbol

Engine Oil Pressure Warning Symbol

Transmission Warning Symbol

Engine Warning Symbol

Water in Fuel Warnings Symbol

Back-Up Alarm

Single Lever Control with FNR Control Buttons

Air Cleaner with Pre-cleaner

Steel Engine Side Covers

Boom / Float

Drawbar and Pin

Neutral Safety Start System

OTHER STANDARD EQUIPMENT:

Muffler

Fenders, Front & Rear

Ladders & Service Platforms

Manuals, Parts & Operator's

GPS with 3 Year Subscription

Remote Drain Ports

Specifications			
	DL220-5		
Configuration		US10	US20
Engine			
Model		DL06P	
Rated Flywheel Power (Gross)		160 hp @ 2,100 rpm	
Rated Horse Power (Net)		160 hp @ 2,100 rpm	
Max. Torque (Net)		542 lbf-ft @ 1,400 rpm	
Engine Emissions Tier (EPA)		T4	
Engine After Treatment		CEGR+DOC+SCR with DEF	
Engine Make		Doosan	
Engine Name			
Engine Number of Cylinders		6	
Engine Displacement		360 in³	
Hydraulic System			
Main Pump: Displacement		4.52 in³/rev	
System Pressure: Work		3,626 psi	
Boom Speed - Up (Loaded)		6 s (±0.5 s)	
Boom Speed - Down		3.5 s (±0.4 s)	
Bucket Speed - Dump		1.2 s (±0.3 s)	
Main Pump: Max. Flow Rate (each)		40.95 gal/min	
Main Pump: Quantity		1	
Main Pump: Main Relief Pressure		3,626 psi	
Total Cycle Time		10.7 s (±0.3 s)	
Undercarriage			
Tire Size		20.5-R25 (L3)	
Tread Width		6' 4"	
Travel System/Drive Mechanism			
Travel performance: Gradeability		30° @ 58 %	
Traveling performance: Max. Tractive Effort		24,692 lb	
Weights			
Operating Weight		27,381 lb	28,296 lb
Dimensions			
Bucket Capacity		3.01 yd³	3.01 yd³
Bucket Width		8' 4"	8' 4"
Hinge Pin Height		12' 7"	14' 1"
Dump reach at 45° (fully raised)		3' 5"	3' 4"
Dump height at 45° (fully raised)		9' 3"	10' 8"
Overall Height		10' 9"	10' 9"
Overall Length		24' 5"	25' 11"
Wheel Base		9' 10"	9' 10"
Ground Clearance		1' 5"	1' 5"
External Turning Radius at Bucket Edge		19' 6"	20' 0"
Static Tipping Load (Straight)		21,231 lb	19,412 lb
Static Tipping Load (Full Turn)		18,750 lb	17,141 lb
Breakout Force		22,706 lbf	25,179 lbf
Rear Axle Oscillation		22°	
Digging Depth		3"	7"
Transmission			
Speeds Fwd		4	
Speeds Rev		3	
Travel Speed Forward - 1st gear		4.35 mph	
Travel Speed Forward - 4th gear		24.23 mph	
Final Drive		Planetary-Outboard	
Differential Type		Limited Slip	
Refill Capacities			
Fuel Tank		62.08 gal	

Cooling System	8.29 gal
Hydraulic System	39.63 gal
Hydraulic Tank	31.7 gal
DEF / Ad blue Tank	8.32 gal
T/C and T/M	10.57 gal