

## Doosan

## DL450-5

ENGINE:	<p>Scania DC13: Turbo Charged, Air to Air Intercooled, T4</p> <p>Electronically Controlled Common Rail Direct Injected</p> <p>775 cu.in., 6 Cylinder</p> <p>354 SAE Gross Flywheel Horsepower @ 1,900 RPM</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>
HYDRAULIC SYSTEM:	<p>Variable Displacement Axial Piston Pump</p> <p>Closed-Center (LS) Hydraulic Systems with Variable Pumps, Pilot Control with Float Spool, 2 Spools</p> <p>3rd Valve with Lines &amp; Control (lines terminate at boom base)</p> <p>Automatic Boom / Lift - Kick-Out (Set and Adjust from inside the cab)</p> <p>Automatic Return-to-Dig Position (Adjustable Electro-Magnetic)</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 &amp; 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 &amp; Defroster</p> <p>Double Filtered Air Cab</p> <p>Combination Lever</p> <p>Accelerator Pedal</p> <p>Transmission Lever</p> <p>Rear Hinged &amp; Locking Doors (Both sides) / Right side is emergency access door</p> <p>Radio, AM-FM Stereo, MP3, with CD</p> <p>Switches:</p> <p>Transmission Shift Switch (Manual, Auto 1-4 and Auto 2-4)</p>

CAB WITH ROPS:

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

Rear View Mirrors with Heat

Safety Glass, Tinted

Fully Adjustable Air Suspension Seat with Heat

Seat Belt (2 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

Full Automatic Power Shift

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, Free 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, 100 Amp., 28 Volt

Batteries, (2) 12 Volt, 200 Amp, 1300 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

DEF Level Gauge

Engine Coolant Temperature Gauge

Transmission Oil Temperature Gauge

Speedometer

Tachometer

ECO Bar

Transmission Actual Gear

Transmission Gear Select

ELECTRICAL:

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

DEF Low Level Warning Symbol

SCR Failure Warning Symbol

Back-Up Alarm

TIRES:

Triangle 26.5R25 TB516 (L3) Radial

Single Lever Control with FNR Control Buttons

OTHER STANDARD EQUIPMENT:

Air Cleaner with Pre-cleaner

Engine Side Covers

Boom / Float

Drawbar and Pin

Neutral Safety Start System

Muffler

Fenders, Front & Rear

Ladders & Service Platforms			
Manuals, Parts & Operator's			
GPS with 1 Year Subscription			
Remote Drain Ports			
NOTES	Trimble / Loadrite Scales: when order is placed, PO cut to Loadrite. Loadrite will coordinate with your dealership for installation. Price is inclusive of Install, Calibration and Customer training. Install will be done at your dealership or at customer location. Warranty is covered by Trimble / Loadrite Auto Lube (SKF / Lincoln): Listed under Dealer Installed Options. Price is the kit only. Installation can be done by your local SKF dealer or by your dealership. SKF dealer will charge aprx. \$4500 to install. If Dealer is installing, it take 1-2 days for install. Kit comes with pump bracket but modification is required, for factory fit, order pump bracket and front valve bracket from parts.		
Specifications			
	DL450-5		
Configuration		US10	US 20
Engine			
Model	DC13		
Rated Flywheel Power (Gross)	344.6 hp @ 1,800 rpm		
Rated Horse Power (Net)	344.6 hp @ 1,800 rpm		
Max. Torque (Net)	1180 lbf-ft @ 1,300 rpm		
Engine Emissions Tier (EPA)	T4		
Engine After Treatment	CEGR+DOC+SCR with DEF		
Engine Make	Scania		
Engine Name			
Engine Number of Cylinders	6		
Engine Displacement	775 in³		
Hydraulic System			
Main Pump: Displacement	8.54 in³/rev		
System Pressure: Work	4,569 psi		
Boom Speed - Up (Loaded)	6.1 s (±0.5 s)		
Boom Speed - Down	3 s (±0.4 s)		
Bucket Speed - Dump	1.6 s (±0.3 s)		
Main Pump: Max. Flow Rate (each)	70.27 gal/min		
Main Pump: Quantity	1		
Main Pump: Main Relief Pressure	4,569 psi		
Total Cycle Time	10.7 s (±0.3 s)		
Undercarriage			
Tire Size	26.5-R25 (L3)		
Tread Width	7' 6"		
Travel System/Drive Mechanism			
Travel performance: Gradeability	30° @ 58 %		
Traveling performance: Max. Tractive Effort	52,029 lb		
Weights			
Operating Weight	56,868 lb		57,618 lb
Dimensions			
Bucket Capacity	6.28 yd³		6.28 yd³
Bucket Width	10' 9"		
Hinge Pin Height	14' 9"		16' 4"
Dump reach at 45° (fully raised)	4' 2"		4' 10"
Dump height at 45° (fully raised)	10' 7"		12' 2"
Overall Height	11' 9"		
Overall Length	30' 0"		32' 0"
Wheel Base	11' 7"		
Ground Clearance	1' 5"		
External Turning Radius at Bucket Edge	23' 5"		24' 4"
Static Tipping Load (Straight)	45,228 lb		42,902 lb
Static Tipping Load (Full Turn)	39,937 lb		37,875 lb
Breakout Force	51,931 lbf		51,256 lbf

Rear Axle Oscillation	22°		
Digging Depth	4"		10"
Transmission			
Speeds Fwd	5		
Speeds Rev	3		
Travel Speed Forward - 1st gear	4.04 mph		
Travel Speed Forward - 4th gear	22.37 mph		
Final Drive	Planetary-Outboard		
Differential Type	Limited Slip		
Refill Capacities			
Fuel Tank	88.76 gal		
Cooling System	13.97 gal		
Hydraulic System	72.65 gal		
Hydraulic Tank	59.7 gal		
DEF / Ad blue Tank	15.85 gal		
T/C and T/M	15.06 gal		