1825B
Skid Steer

ENGINE
Model: Kubota V1505
Type: Diesel
Cylinders: 4
Bore/Stroke: 3.07" x 3.09" (78 x 78.4 mm)
Displacement: 91.4 in³ (1.5 L)
Horsepower per SAE J1349 –
  Gross: 30 (22.2 kW) @ 2400 rpm
  Net: 27 (20.1 kW) @ 2400 rpm
Peak torque –
  @ 2100 rpm: 67.1 lb·ft (91 N·m)

POWERTRAIN
Drive pump: Tandem, axial piston hydrostatic transmission
Flow: Bi-directional
Controls: Mechanical
Drive motors: Fixed displacement high torque/low speed gerotor motors
Final drive: Single stage reduction chain drive to all wheels
Drive chain –
  Size: No. 60 HT
Brakes: Mechanical parking latch spring applied, cable release
Engagement: Raise the seat bar
Travel speed: 0 - 5.7 mph (0 - 9.2 km/h)

HYDRAULIC SYSTEM
Standard equipment pump –
  Gear pump driven directly off engine crankshaft
Pump flow @ rated engine rpm
  Total: 9.6 gpm (36.3 L/min)
Loader control valve: 2-spool mono cast with float detent
Main relief: 2300 psi (159 bar)
Hydraulic filters: 6-micron, spin-on replaceable element on the loader hydraulic return line with warning indicator

OPERATOR ENVIRONMENT
ROPS/FOPS tilt canopy w/ side screens
Seat presence switch
Vinyl seat
2” (51 mm) seat belt
Restrainment bar w/ integral armrests
Two hands-only control levers
Hand throttle
Loader control lockout system
Loader arm lock strut
Front and rear halogen floodlights
Floor cleanup panel

INSTRUMENTATION
Electro-mechanical hourmeter
Fuel level LED bar graph
Warning lights –
  Battery voltage
  Engine coolant temperature
  Transmission charge pressure
  Transmission temperature
  Engine oil pressure
  Air cleaner restriction
  Hydraulic filter restriction
  Systems normal
Warning alarms –
  Engine coolant temperature
  Transmission charge pressure
  Engine oil pressure
  Hydraulic oil temperature
  Battery voltage
  Seat belt reminder

ELECTRICAL SYSTEM
Alternator:............. 30 amp
Battery:............ 12 volt low-maintenance
  350 cold-cranking amps

SERVICE CAPACITIES
Fuel tank:.............. 8.5 gal (32.2 L)
Engine oil w/ filter: .... 6.7 qt (6.3 L)
Engine cooling system: 7.0 qt (6.6 L)
Hydraulic system –
  Reservoir
    w/ filter change: .... 23 qt (21.8 L)
  Total:.................. 30 qt (28.4 L)
Chain tanks (per side): .... 3 qt (2.8 L)

OPTIONS
OPERATOR’S COMPARTMENT
  Deluxe seat
  Seat backrest extension
  Horn
HYDRAULICS
  Auxiliary hydraulics, loader arm mounted
OTHER
  Backup alarm
  Front and rear lift brackets
  Drawbar
  Special paint
DIRT/UTILITY BUCKETS
Bucket
  Width
  Capacity
  Capacity
  Weight
  44” (1.12 m): 4.84 ft³ (0.14 m³) 6.34 ft³ (0.18 m³) 130 lb (59 kg)
  49” (1.24 m): 5.4 ft³ (0.15 m³) 7.1 ft³ (0.20 m³) 145 lb (66 kg)
TIRES
Chevron 5.70 x 15, 4PR
  Width over tires: .... 39.3” (0.99 m)
Goodyear SureGrip 8.50 x 15, 4PR
  Width over tires: .... 47.3” (1.2 m)
Galaxy “Beefy Baby” 8.50 x 15, 6PR
  Width over tires: .... 47.3” (1.2 m)
Airboss Altrakka II 8.50 x 15
  Width over tires: .... 47.3” (1.2 m)
**DIMENSIONS**

A. Overall operating height – dirt bucket .................................. 126.9” (3.2 m)
   Height to*
B. Bucket hinge pin.................................................................... 98.2” (2.49 m)
C. Top of rollover protective structure (ROPS).............................. 70.1” (1.78 m)
D. Bottom of level bucket, loader arm fully raised.................. 92” (2.34 m)
   Overall length –
E. w/o attachment........................................................................ 84.8” (2.15 m)
F. w/bucket on ground............................................................... 109” (2.77 m)
G. Dump angle at maximum height –
   Dirt bucket................................................................................ 40°
H. Dump height – loader arm fully raised –
   Dirt bucket................................................................................. 76” (1.93 m)
J. Reach – loader arm fully raised –
   Dirt bucket.............................................................................. 27.6” (0.70 m)
   Maximum attachment rollback –
K. Bucket on ground........................................................................ 27°
L. Bucket at full height............................................................... 98°
M. Wheelbase................................................................................ 33.5” (0.85 m)
N. Ground clearance........................................................................ 6.8” (0.17 m)
O. Angle of departure....................................................................... 31°
   Clearance circle front –
P. Less bucket ........................................................................... 35.8” (0.90 m)
Q. w/44” (1.12 m) dirt bucket on ground ............................... 62.8” (1.60 m)
Q. w/49” (1.25 m) dirt bucket on ground ............................... 63.7” (1.62 m)
R. Clearance circle rear.................................................................. 52.2” (1.33 m)
   Operating weight........................................................................ 3,107 lb (1,409 kg)

NOTE: *Equipped with 5.70 x 15 tires.

**PERFORMANCE SPECS**

Operating load .......... 885 lb (401 kg)
Tipping load............ 1,770 lb (803 kg)
Breakout force –
   Lift cylinder............... 1,730 lbf (7695 N)
   Bucket cylinder............. 1,795 lbf (7985 N)
Cycle time –
   Raise........................... 4.1 seconds
   Lower........................... 2.5 seconds
   Dump............................. 1.2 seconds
   Rollback........................ 1.6 seconds

NOTE: SAE rated lift capacities. Cycle time measured with rated load in bucket.

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