

SPECIFICATIONS-LOADER

SPECIFICATION - DIMENSIONAL PER SAE J732 UNLESS OTHERWISE NOTED

| SAE ITEM | UNITS | STD | | SJC | |
|--|---------|-------|---------------------------------|-------|-------|
| | | OPT 1 | OPT 2 | OPT 1 | OPT 2 |
| 4.1 OVERALL OPERATING HEIGHT (A)-FULLY RAISED | mm [in] | | 3306.0 [130.15] | | |
| 4.2 HEIGHT TO HINGE PIN (B) FULLY RAISED | mm [in] | | 2632.6 [103.64] | | |
| 4.3 OVERALL HEIGHT (C) | mm [in] | | 1877.6 [73.92] | | |
| 4.5 OVERALL LENGTH (D) | mm [in] | | 2800.0 [110.20] | | |
| 4.6 DUMP ANGLE (E) | ° | | 43° | | |
| 4.7 DUMP HEIGHT (F) | mm [in] | | 2084.0 [82.04] | | |
| 4.8 REACH (G)-FULLY RAISED | mm [in] | | 390.0 [15.35] | | |
| 4.9 REACH (I) AT SPECIFIED HEIGHT (H) | mm [in] | | 412.0 [16.22] 1992.0 [78.43] | | |
| 4.10 ROLLBACK | ° | | 26° | | |
| 4.11 MAXIMUM ROLLBACK (J)-AT GROUND | ° | | 26° | | |
| 4.12 CARRY POSITION (K) | mm [in] | | 222.5 [8.74] | | |
| 4.13 MAXIMUM ROLLBACK (L)-AT CARRY POSITION | ° | | 28° | | |
| 4.14 MAXIMUM ROLLBACK (M)-FULLY RAISED | ° | | 95.3° | | |
| 4.15 DIGGING DEPTH (N) | mm [in] | | 0.0 [0.00] | | |
| 4.16 WHEELBASE (P) | mm [in] | | 817.6 [32.19] | | |
| 4.17 OVERALL WIDTH (Z) | mm [in] | | 1167.1 [45.94] | | |
| 4.18 BUCKET WIDTH (V) | mm [in] | | 1270.0 [50.00] | | |
| 4.19 GROUND CLEARANCE (S) | mm [in] | | 166.7 [6.56] | | |
| 4.20 TREAD (AA) | mm [in] | | 966.98 [38.07] | | |
| 4.21 MAXIMUM GRADING ANGLE - BUCKET (T) | ° | | 90° | | |
| ANGLE OF DEPARTURE (U) | ° | | 25° | | |
| REAR OF MACHINE CLEARANCE CIRCLE (Y) | mm [in] | | 1308.9 [51.53] | | |
| MACHINE CLEARANCE CIRCLE (X)-ISO 7457, SAE J1234 | mm [in] | | 1731.0 [68.15] | | |
| WIDTH ACROSS AXLE FLANGES W/O STUDS (AB) | mm [in] | | 1025.3 [40.37] | | |
| TIRE ROLLING RADIUS (AC) | mm [in] | | 323.0 [12.72] | | |
| LENGTH WITHOUT ATTACHMENT (AF) | mm [in] | | 2262.5 [89.07] | | |

| LOADER EQUIPPED WITH FOLLOWING ACCESSORIES AND OPTIONAL EQUIPMENT DURING TEST: | | | | |
|--|-----------|-------------|---------|-------|
| DESCRIPTION (MM [IN]) | TIRE SIZE | BUCKET SIZE | BALLAST | OTHER |
| OPT 1 <1> | A | Y | | |
| OPT 2 <2> | A | Y | | |

| TIRE | TIRE SIZE (MM [in]) | TIRE PRESSURE (MPa [PSI]) | TIRE LOADED RADIUS (MM [in]) |
|------|---------------------------|---------------------------|------------------------------|
| A | 685.8x215.9 [27.0x8.5] HD | 0.345 [50.0] | |

| BUCKET OR ATTACHMENT USED FOR SPECIFICATIONS: | | PMI |
|---|------------|------------|
| X | [REDACTED] | [REDACTED] |
| Y | [REDACTED] | [REDACTED] |

SPECIFICATION - OPERATIONAL PER SAE J732 UNLESS OTHERWISE NOTED

| SAE ITEM | UNITS | STD | | SJC | |
|---|-----------------------------------|------------|-------------|-------------|------------|
| | | OPT 1 | OPT 2 | OPT 1 | OPT 2 |
| 5.1 BUCKET HEAPED CAPACITY- PER ISO 7546 | m ³ [FT ³] | [REDACTED] | [REDACTED] | 0.19 [6.6] | [REDACTED] |
| 5.2 OPERATING MASS <5> | kg [LB] | [REDACTED] | [REDACTED] | 1936 [4267] | [REDACTED] |
| 5.3 TIPPING CAPACITY-ISO 14397-1 <5> | kg [LB] | [REDACTED] | [REDACTED] | 922 [2033] | [REDACTED] |
| RATED OPERATING CAPACITY-ISO 14397-1 <5> | kg [LB] | [REDACTED] | [REDACTED] | 461 [1017] | [REDACTED] |
| RATED OPERATING CAPACITY-BOBCAT <5> | kg [LB] | | 453 [1000] | | |
| 5.5 WORKING CIRCUIT PRESSURE | MPa [PSI] | | 20.7 [3000] | | |
| 5.6 HOLDING CIRCUIT PRESSURE (LIFT & TILT CYL RELIEF) | MPa [PSI] | | 27.6 [4000] | | |
| HOLDING CIRCUIT PRESSURE (AUX RELIEF-OPTIONAL) | MPa [PSI] | | 27.6 [4000] | | |
| 5.7 LIFT CAPACITY TO MAXIMUM HEIGHT (TIP LIMITED) <5> | kg [LB] | [REDACTED] | [REDACTED] | 1471 [3243] | [REDACTED] |
| 5.8 BREAKOUT FORCE - BOOM <5> | kg [LB] | [REDACTED] | [REDACTED] | 754 [1662] | [REDACTED] |
| 5.8 BREAKOUT FORCE - BUCKET <5> | kg [LB] | [REDACTED] | [REDACTED] | 764 [1685] | [REDACTED] |
| 5.9 RAISING TIME <5> | SEC | | | 2.8 | |
| 5.10 LOWERING TIME <5> | SEC | | | 2.0 | |
| 5.11 DUMP TIME <5> | SEC | | | 1.6 | |
| ROLLBACK TIME <5> | SEC | | | 1.2 | |

| J | UPDATED BATTERY AND STARTER DESCRIPTION | 110473 | MBA | 2 |
|-----|---|------------|-----|-------|
| REV | DESCRIPTION | CHG NOTICE | DWN | SHEET |

5. [REDACTED]

4. [REDACTED]

3. [REDACTED]

2. [REDACTED]

1. [REDACTED]

| WARNING | | D | MM[INCH] | TOLERANCES: |
|--|---------------------|---------------------|---|---|
| THE EXPORT OR REEXPORT OF THIS DRAWING OR A PRODUCT PRODUCED BY THIS DRAWING IS SUBJECT TO U.S. EXPORT ADMINISTRATION REGULATIONS AND OTHER APPLICABLE GOVERNMENTAL RESTRICTIONS OR REGULATIONS. | | | UNLESS OTHERWISE SPECIFIED MACHINED SURFACE MAX. ROUGHNESS 125 µin / 3.2 µm | UNLESS OTHERWISE SPECIFIED SEE BOBCAT STANDARD DE-L FOR SHEETMETAL BEND RADIUS TOLERANCE |
| PROPRIETARY NOTICE | | | THIRD ANGLE PROJECTION | ANGULAR ± 1° FILLETS & RADII ± 1.5 [0.06] |
| THIS DOCUMENT CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. IT IS THE PROPERTY OF BOBCAT COMPANY, AND IS LOANED TO THE RECEIVER IN CONFIDENCE. THE RECEIVER, BY RECEPTION AND RETENTION OF THE DOCUMENT, ACCEPTS THE CONFIDENCE IN CONFIDENCE AND AGREES THAT, EXCEPT AS AUTHORIZED BY WRITING BY BOBCAT COMPANY, IT WILL (1) NOT USE THE DOCUMENT OR ANY COPY THEREOF OR THE CONFIDENTIAL OR TRADE SECRET INFORMATION THEREIN; (2) NOT COPY THE DOCUMENT; (3) NOT DISCLOSE TO OTHERS EITHER THE DOCUMENT OR THE CONFIDENTIAL OR TRADE SECRET INFORMATION THEREIN; AND (4) UPON COMPLETION OF THE NEED TO RETAIN THE DOCUMENT OR UPON DEMAND, RETURN THE DOCUMENT, ALL COPIES THEREOF, AND ALL MATERIALS COPIED THEREFROM. | | | WELD SYMBOLS PER ANSI AWS A2.4 | |
| ECN | 68091 | | | |
| MATL | | | | |
| REAT | | | | |
| HARD | | | | |
| S/A | .00 in ² | .00 cm ² | DWG. NO. | 7135025 |
| WT | .00 lb | .00 kg | SHT 1/4 | |

SPECIFICATIONS-COMMERCIAL LITERATURE

| OPERATIONAL | | STD | | SJC | |
|---|--------------|-----|--|-------------|-------|
| | UNITS | | | OPT 1 | OPT 2 |
| TRAVEL SPEED 1 SPEED <5> | km/h [mph] | | | 10,3 [6,4] | |
| TRAVEL SPEED 2 SPEED <5> | km/h [mph] | | | 14,0 [8,7] | |
| SHIPPING MASS WITHOUT BUCKET <5> | kg [lb] | | | 1769 [3900] | |
| WEIGHT DISTRIBUTION % REAR % FRONT W/BUCKET <5> | % | | | 73/27 | |
| WEIGHT DISTRIBUTION RIGHT FRONT (RF) TIRE | kg [lb] | | | | |
| WEIGHT DISTRIBUTION LEFT FRONT (LF) TIRE | kg [lb] | | | | |
| WEIGHT DISTRIBUTION RIGHT REAR (RR) TIRE | kg [lb] | | | | |
| WEIGHT DISTRIBUTION LEFT REAR (LR) TIRE | kg [lb] | | | | |
| PUSH FORCE <5> | kg [lb] | | | 1325 [2920] | |
| LIFT FORCE WHILE PUSHING <5> | kg [lb] | | | 1121 [2470] | |
| PUSH FORCE WHILE LIFTING <5> | kg [lb] | | | 1442 [3178] | |
| RESULTANT DIGGING FORCE <5> | kg [lb] | | | 1830 [4033] | |
| AXLE STALL TORQUE | N-m [lbs-ft] | | | | |
| STATIC AXLE LOAD RATING | kg [lb] | | | | |
| DYNAMIC AXLE LOAD RATING | kg [lb] | | | | |

| | | | | |
|----------------|------------|------------|------------|------------|
| [REDACTED] <5> | | | | |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | 4,4 [1,2] | [REDACTED] |

| | STD | | SJC | |
|----------------|-------|-------|-------|-------|
| | OPT 1 | OPT 2 | OPT 1 | OPT 2 |
| [REDACTED] <5> | | | 101 | |
| [REDACTED] | | | 85 | |

| DRIVE SYSTEM | | STD | SJC |
|------------------------------------|-------------------------------|-----|-------------|
| ENGINE TO PUMP-BELT DRIVE RATIO | | | 0.89 |
| HYDROSTATIC PUMPS DISPLACEMENT | CC ³ /REV [IN/REV] | | 43,4 [2,65] |
| HYDROSTATIC MOTORS DISPLACEMENT | CC ³ /REV [IN/REV] | | 245 [15,0] |
| HYDROSTATIC SYSTEM RELIEF PRESSURE | MPa [PSI] | | 27,6 [4000] |
| GEARBOX REDUCTION RATIO | | | 0.31 |
| DRIVE SPROCKET-PITCH DIAMETER | | | |
| MINIMUM ENGINE TO WHEEL REDUCTION | | | |

| LOADER HYDRAULIC SYSTEM | | STD | SJC |
|---|--|-----|--|
| PUMP | | | ENGINE DRIVEN GEAR TYPE |
| PUMP CAPACITY / CHARGE | | | 49,6 lpm [13,1 gpm] 2860 pump rpm@91% eff |
| CHARGE PUMP CAPACITY | | | |
| SYSTEM RELIEF VALVE SETTING | | | 20,7 MPa [3000 PSI] |
| FILTRATION HYDRAULIC AND HYDROSTATIC CHARGE | | | |
| DIRECTIONAL CONTROL VALVE | | | |
| HYDRAULIC FLUID | | | |
| SERVICE CHARGE RELIEF VALVE SPEC | | | |

| CYLINDERS - ALL OPTIONS | | | | | |
|-------------------------|---------|-------------|---------------|-------------|------------|
| | UNITS | BORE | STROKE | ROD | TYPE |
| LIFT | MM [IN] | 50,8 [2,00] | 653,5 [25,73] | 31,8 [1,25] | DBL ACTING |
| TILT | MM [IN] | | | | |

| SYSTEM FLUID CAPACITIES - ALL OPTIONS | | | |
|---|---------|-----|-------------|
| | UNITS | STD | SJC |
| COOLING SYSTEM WITHOUT HEATER <5> | L [QT] | | |
| COOLANT RECOVERY BOTTLE | L [QT] | | |
| COOLING SYSTEM WITH HEATER <5> | L [QT] | | |
| FUEL TANK | L [GAL] | | 45,0 [11,9] |
| ENGINE LUBRICATING OIL WITH FILTER CHANGE <5> | L [QT] | | |
| TRANSMISSION (FINAL DRIVE) <5> | L [GAL] | | |
| HYDRAULIC AND HYDROSTATIC RESERVOIR | L [GAL] | | |
| HYDRAULIC AND HYDROSTATIC SYSTEM <5> | L [GAL] | | |

| | |
|------------|----------------|
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] <5> |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |

| ENGINE - ALL OPTIONS | | |
|------------------------------|----------------------|------------------------|
| MANUFACTURE | UNITS | |
| MANUFACTURE | | KUBOTA |
| MODEL | | V1505 |
| IGNITION | | COMPRESSION (DIESEL) |
| TYPE OF CYCLE | | 4 CYCLE |
| AIR INDUCTION | | NATURALLY ASPIRATED |
| NUMBER OF CYLINDERS | | 4 |
| BORE | MM [in] | |
| STROKE | MM [in] | |
| DISPLACEMENT | CC ³ [in] | |
| COOLING MEDIUM | | |
| TYPE OF FUEL | | |
| LUBRICATION | | |
| CRANKCASE VENTILATION | | |
| AIR FILTER | | |
| POWER ISO 9249 EEC | KW [HP] | 25,0 [33,5] / 3000 RPM |
| SAE J1349 NET | KW [HP] | 25,0 [33,5] / 3000 RPM |
| SAE J1995 GROSS | KW [HP] | 26,5 [35,5] / 3000 RPM |
| TORQUE ISO 9249 EEC | N-m [LBF-FT] | 92,9 [68,5] / 2200 RPM |
| SAE J1349 NET | N-m [LBF-FT] | 92,9 [68,5] / 2200 RPM |
| SAE J1995 GROSS | N-m [LBF-FT] | 93,9 [69,3] / 2200 RPM |
| HIGH IDLE | RPM | 3200 |
| HIGH IDLE(EUROPE) | RPM | 3200 |
| LOW IDLE | RPM | 1200 |
| ENGINE OPERATING SLOPE LIMIT | ° | 30° |

| | | | |
|---|--|--|---------------------------------------|
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| | ECN 68091 | Bobcat Company WEST FARGO, NORTH DAKOTA, USA TITLE SPECS S100 LOADER | DWG. NO. SHT 2/4 7135025 |
| | SIA .00 in ² | .00 cm ² | |
| | WT .00 lb | .00 kg | |