## SV185 swin siri SV185

## ENGINE

| Model | ISM N844T / M3 |
| :---: | :---: |
| Type | Diesel 4-stroke, Turbo, I.D.I. |
| Cylinder | 4 |
| Bore/stroke | $3.31 \times 3.94$ in $(84 \times 100 \mathrm{~mm})$ |
| Displacement | $135 \mathrm{cu} \mathrm{in} \mathrm{(2.2} \mathrm{L)}$ |
| Fuel injection | Indirect |
| Fuel | \#2 diesel |
| Fuel filter | In-line strainer |
| Air intake | Turbocharged w/ internal EGR |
| Cooling | Liquid |
| Engine speeds |  |
| High idle - no | load (rpm) 3080 +/- 50 |
| Rated -full load | (rpm) 2900 |
| Low idle (rpm) | $1200+/-50$ |
| Horsepower per SAE J1349 |  |
| Gross | $60 \mathrm{hp}(44.7 \mathrm{~kW})$ @ 2900 rpm |
| Net | 57 hp (42.1 kW) @ 2900 rpm |
| Peak torque | $126 \mathrm{lb}-\mathrm{ft}(171 \mathrm{~N}-\mathrm{m})$ @ 1800 rpm |

## ENGINE COOLING

| Radiator - |  |
| :--- | ---: |
| Core type | All aluminum |
| Core size area | $0.261 \mathrm{~m}^{2}$ |
| Rows of tubes | 43 |
| Cap pressure | $16+/-2 \mathrm{psi}$ |
| Fan - |  |
| $\quad$ Diameter | $17.7 \mathrm{in}(450 \mathrm{~mm})$ |
| Ratio | $0.89: 1$ |
| Water pump - |  |
| $\quad$ Style | Centrifugal |
| Flow | $13.2 \mathrm{gpm}(50.1 \mathrm{~L} / \mathrm{min})$ |


| Engine lubrication - <br> Pump |  |
| :--- | ---: |
| Pressure feed w/ Trichoid pump, <br> deep sump \& plate cooler |  |
| Pump operating angle ratings - |  |
| Side to side | $35^{\circ}$ |
| Bucket up | $35^{\circ}$ |
| Bucket down | $35^{\circ}$ |

## POWERTRAIN



## Axles -

| Torque @ max. displacement and relief |  |
| :--- | ---: |
| pressure (calculated) | $4,868 \mathrm{lb}-\mathrm{ft}(6600 \mathrm{~N}-\mathrm{m})$ |
| Diameter | 2 in $(50.48 \mathrm{~mm})$ |
| Length | $15.1 \mathrm{in}(384 \mathrm{~mm})$ |
| Parking brake |  |
| Type |  |
| Spring-applied, |  | hydraulic release disc

Engagement Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine


## INSTRUMENTATION

| Indicators |
| :--- |
| Digital Hourmeter |
| Fuel level LCD bar graph with alarm |
| Warning lights with alarms |
| Engine coolant temperature |
| Engine oil pressure |
| Engine Malfunction |
| Hydraulic charge pressure |
| Hydraulic filter restriction |
| Hydraulic oil temperature |
| Warning alarms |
| Battery voltage (plus display) |
| Indicator light |
| Engine preheat |
| Parking brake |
| Seat bar reminder |
| ELECTRICAL SYSTEM |
| Alternator 95 amp |
| Starter 2.2 kW |
| Battery |
| $12-$-volt low-maintenance 1000 cold-cranking |
| amps @ $0^{\circ} \mathrm{F}\left(-18^{\circ} \mathrm{C}\right)$ |


| OPERATOR ENVIRONMENT |
| :--- |
| ROPS/FOPS level 1 canopy w/side screens |
| Tilt ROPS/FOPS |
| Rear window w/ emergency escape |
| Instrument panels |
| Suspension vinyl seat |
| in (51 mm) retractable seat belt |
| Hand throttle |
| Alarm package throttle |
| Headliner |
| Top window |
| Cup holder |
| Power plug socket |
| Stoot rest |
| Low effort ergonomic hand controls |
| Padded seat bar w/integral armrests |
| Eleader control lockout system |
| Floor cleanout panel |

## CYLINDERS

| Lift cylinder - |  |
| :--- | ---: |
| $\quad$ Bore diameter | $2.25 \mathrm{in}(57.2 \mathrm{~mm})$ |
| Rod diameter | $1.375 \mathrm{in}(34.9 \mathrm{~mm})$ |
| Stroke | $26.8 \mathrm{in}(681.0 \mathrm{~mm})$ |
| Closed length | $38.7 \mathrm{in}(982.0 \mathrm{~mm})$ |
| Bucket cylinders - |  |
| $\quad$ Bore diameter in $(\mathrm{mm})$ | $2.5 \mathrm{in}(63.5 \mathrm{~mm})$ |
| Rod diameter in $(\mathrm{mm})$ | $1.375 \mathrm{in}(34.9 \mathrm{~mm})$ |
| Stroke | $16.14 \mathrm{in}(410.0 \mathrm{~mm})$ |
| Closed length | $24 \mathrm{in}(610.0 \mathrm{~mm})$ |
| WEIGHTS |  |
| Operating weight $\mathrm{kg}(\mathrm{lbs})$ | $6,500 \mathrm{lb}(2950 \mathrm{~kg})$ |
| Shipping weight | $6,200 \mathrm{lb}(2810 \mathrm{~kg})$ |
| Add-on weights - |  |
| Side cab glass |  |
| Lexan door | $46.9 \mathrm{lb}(21.3 \mathrm{~kg})$ |
| Glass door with wiper | $74 \mathrm{lb}(33.6 \mathrm{~kg})$ |
| Suspension seat | $134 \mathrm{lb}(60.8 \mathrm{~kg})$ |

## SERVICE CAPACITIES

| Fuel tank | $20 \mathrm{gal}(75.5 \mathrm{~L})$ |
| :--- | ---: |
| Engine oil with filter | $9 \mathrm{qt}(8.5 \mathrm{~L})$ |
| Hydraulic system - |  |
| Reservoir $4.3 \mathrm{gal}(16.2 \mathrm{~L})$ <br> Total NA |  |
| Chain tanks (per side) | $7.1 \mathrm{qt}(6.7 \mathrm{~L})$ |

## TIRE SELECTION

|  | Size | Ply <br> Rating | Tread Depth | Tire Width | Tread Width | Width Over Tires | Tire Weight* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Heavy-Duty | $10 \times 16.5$ | - | - | - | $\begin{gathered} 53 \\ (1348) \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (1627) \\ \hline \end{gathered}$ | - |
| Premium | $10 \times 16.5$ | - | - | - | $\begin{gathered} 53 \\ (1348) \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (1627) \\ \hline \end{gathered}$ | - |
| Premium - Lined | $10 \times 16.5$ | - | - | - | $\begin{gathered} 53 \\ (1348) \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (1627) \\ \hline \end{gathered}$ | - |
| Severe Duty | $10 \times 16.5$ | - | - | - | $\begin{gathered} 53 \\ (1348) \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (1627) \\ \hline \end{gathered}$ | - |
| Non-Pneumatic | $10 \times 16.5$ | - | - | - | $\begin{gathered} 53 \\ (1348) \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (1627) \\ \hline \end{gathered}$ | - |
| Heavy-Duty | $12 \times 16.5$ | - | - | - | $\begin{gathered} 57 \\ (1465) \\ \hline \end{gathered}$ | $\begin{gathered} 70 \\ (1785) \\ \hline \end{gathered}$ | - |
| Premium | $12 \times 16.5$ | - | - | - | $\begin{gathered} 57 \\ (1465) \\ \hline \end{gathered}$ | $\begin{gathered} 70 \\ (1785) \\ \hline \end{gathered}$ | - |
| Premium - Lined | $12 \times 16.5$ | - | - | - | $\begin{gathered} 57 \\ (1465) \\ \hline \end{gathered}$ | $\begin{gathered} 70 \\ (1785) \\ \hline \end{gathered}$ | - |



## PERFORMANCE SPECS

Rated operating load -

| $50 \%$ | $1850 \mathrm{lb}(840 \mathrm{~kg})$ |
| :--- | ---: |
| Tipping load | $3,700 \mathrm{lb}(1678 \mathrm{~kg})$ |
| Breakout forces - |  |
| $\quad$ Lift cylinder | $2,740 \mathrm{lb}(12.2 \mathrm{kN})$ |
| Bucket cylinder | $5,435 \mathrm{lb}(24.2 \mathrm{kN})$ |
| Dig depth with bucket flat | 0 |
| Cycle times (seconds) - |  |
| $\quad$ Raise | 3.0 |
| Lower | 2.4 |
| Dump | 2.2 |
| Roll back | 1.5 |

## OPTIONAL BUCKETS

| Type | Width <br> inch $(\mathrm{m})$ | Weight <br> $\mathrm{lb}(\mathrm{kg})$ | Heaped <br> Capacity $_{\mathrm{ft}^{3}\left(\mathrm{~m}^{3}\right)}$ |
| :--- | :---: | :---: | :---: |
| Dirt \& | 60 | 270 | 11.5 |
| Foundry | $(1.5)$ | $(122)$ | $(0.33)$ |
|  | 66 | 370 | 15.2 |
|  | $(1.6)$ | $(168)$ | $(0.43)$ |
|  | 72 | 390 | 16.7 |
|  | $(1.8)$ | $(177)$ | $(0.47)$ |
| Low Profile | 60 | 330 | 11.5 |
|  | $(1.5)$ | $(150)$ | $(0.33)$ |
|  | 66 | 400 | 13.2 |
|  | $(1.6)$ | $(181)$ | $(0.37)$ |
|  | 72 | 425 | 14.5 |
|  | $(1.8)$ | $(193)$ | $(0.41)$ |
| Low Profile | 60 | 360 | 14.3 |
| Extended | $(1.5)$ | $(163)$ | $(0.40)$ |
|  | 66 | 434 | 15.5 |
|  | $(1.6)$ | $(197)$ | $(0.44)$ |
|  | 72 | 477 | 17.1 |
|  | $(1.8)$ | $(216)$ | $(0.48)$ |
| Light | 60 | 350 | 19.7 |
| Material | $(1.5)$ | $(159)$ | $(0.56)$ |
|  | 72 | 434 | 23.7 |
|  | $(1.8)$ | $(197)$ | $(0.67)$ |
| Manure \& | 60 | 340 | 16.7 |
| Slurry | $(1.5)$ | $(154)$ | $(0.47)$ |
|  | 72 | 465 | 19.1 |
|  | $(1.8)$ | $(211)$ | $(0.54)$ |
| Heavy Duty | 66 | 474 | 13.3 |
|  | $(1.6)$ | $(215)$ | $(0.37)$ |
|  | 72 | 501 | 14.6 |
|  | $(1.8)$ | $(227)$ | $(0.41)$ |

## OPERATOR'S COMPARTMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/ emergency escape
Instrument panels
Suspension vinyl seat
2 in ( 51 mm ) retractable seat belt
Hand throttle
Foot throttle
Alarm package
Headliner
Top window
Cup holder
Power plug socket
Foot rest
Storage tray
Low effort ergonomic hand controls
Padded seat bar w/integral armrests
Loader control lockout system
Electric parking brake control
Floor cleanout panel

## LOADER

Vertical loader arm design
Mechanical attachment coupler
Loader lift arm support strut

## ENGINE

ISM N844T / M3 diesel
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
120 amp alternator
1000 CCA 12-volt battery
Glow plug
Over \& under radiator and oil cooler
Spark arresting muffler

## POWERTRAIN

Hydrostatic four wheel drive
Servo controlled pumps
ASA \#80HS drive chain
SAHR disc parking brakes

## HYDRAULICS

Auxiliary hydraulics 3050 psi
(210 bar) - 23.8 gpm ( $90 \mathrm{~L} / \mathrm{min}$ )
Hydraulic circuit pedal lock
Loader arm-mounted ISO flat face connectors
Auxiliary function lockout override
Loader function lockout system
Loader lift lockout override
3 -spool loader control valve
Heavy-duty oil cooler
Loader arm float position

## OTHER

Add-on counterweights
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 2 side, 2-rear (halogen)
Rear tail lights
Remote oil drain

## OPTIONAL EQUIPMENT

## OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/ heater and
lumbar support
Interior mirror
Electric auxiliary hydraulic control
Glass front door w/wiper \& washer
Sliding side windows
3 inch retractable seat belt
Heater and AC
Radio
Demolition door

## LOADER

Auxiliary front electric control
Ride control
Switchable EH controls
Hydraulic attachment coupler
Hydraulic one-way self-leveling

HYDRAULICS
High-flow auxiliary hydraulics 3050 psi (210 bar) - 33.2 gpm ( $126 \mathrm{~L} / \mathrm{min}$ ) Attachment case drain plumbing

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.
NOTE: All engines meet current EPA emissions requirements.
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## ENGINE

Coolant block heater
Battery disconnect switch

## OTHER

2 speed ground drive
Deluxe instrument panel
Road lights
Rotating beacon
Lift hooks
Special paint
Language decals
Factory-installed tires - see page 2
Buckets - see page 3
Bolt-on bucket cutting edges
42 in ( 1.07 m ) and 48 in ( 1.22 m ) pallet forks Steel tracks

