

SR130

SKID STEER LOADER TIER 4 FINAL CERTIFIED

ENGINE

| Model | ISM N844L-F/M4 |
|--------------------------------------|---|
| Type Diesel 4-stre | oke, naturally aspirated |
| Cylinders | 4 |
| Bore/Stroke | 3.31 x 3.94 in |
| | (84 x 100 mm) |
| Displacement | 135.2 in ³ (2.2 L) |
| Fuel injection | Indirect |
| Fuel | #2 Diesel |
| Fuel filter: | |
| Pre-filter | 14 micron/in line |
| Main filter | 10 micron/spin on |
| | ally aspirated w/o EGR |
| Exhaust aftertreatment | Diesel particulate filter – DPF |
| Cooling | Liquid |
| Engine speeds | RPM |
| High idle – no load | 2825 +/- 25 |
| Rated – full load | 2800 |
| Low idle | 1200 +/- 50 |
| Horsepower @ 2800 RPM | I – SAE J1349: |
| Gross | 48.8 hp (36.4 kW) |
| Net | 45.8 hp (34.1 kW) |
| Peak torque @ 1800 RPM | 105.5 lb·ft (143 N·m) |
| Radiator: | |
| Core type | All aluminum |
| Core size area Rows of tubes x colum | 2.77 ft ² (0.257 m ²) ns 43 x 3 |
| Cap pressure | 16 +/- 2 psi |
| Cap pressure | (1.10 +/- 0.14 bar) |
| Fan: | (1110 17 011 1 001) |
| Diameter | 17.7 in (450 mm) |
| Ratio | 0.89:1 |
| Water pump: | |
| Style | Centrifugal |
| Flow | 19.0 gpm (71.9 L/min) |
| Engine lubrication pump | Pressure feed |
| | w/ Trichoid pump |
| Pump operating angle rat | ings: |
| Side to side | 35° |
| Bucket up | 35° |
| Bucket down | 35° |
| | |

POWERTRAIN

| Drive pump controls | Direct mechanical |
|------------------------|------------------------------|
| Pump to engine ratio | 1:1 |
| Displacement | 2.14 in ³ (35 cc) |
| Flow @ rated engine RP | M: |
| @ 97% efficiency | 25.1 gpm (95 L/min) |
| Charge pressure | 360 psi (24.5 bar) |
| System relief pressure | 5,000 psi (345 bar) |
| Drive pump controls | Electro-hydraulic |
| Pump to engine ratio | 1:1 |
| Displacement | 2.14 in ³ (35 cc) |
| Flow @ rated engine RP | M: |
| @ 97% efficiency | 25.1 gpm (95 L/min) |
| Charge pressure | 362 psi (24.5 bar) |
| System relief pressure | 5,220 psi (360 bar) |

POWERTRAIN (cont.)

| Drive motors: | | | |
|--|---|--|--|
| Displacement 19.8 in ³ (325 c | | | |
| Motor RPM @ hig | h idle, 97% efficiency 313 | | |
| Max. torque @ 5,0 | 000 psi (345 bar): | | |
| | 1,315 lb·ft (1783 N·m) | | |
| Travel speed | 7.4 mph (11.9 kph) | | |
| Final drive | Single-reduction chain drive | | |
| Drive chain: Size | ASA #80 | | |
| Tensile strength | 1 21,000 lb (93.4 kN) | | |
| Axles: | | | |
| Torque | 4,381 lb-ft (5940 N·m) | | |
| Diameter | 2.0 in (50.8 mm) | | |
| Length | 13.2 in (346 mm) | | |
| Parking brake: | | | |
| Туре | Spring-applied, hydraulic release multiple disc. | | |
| Engagement | Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine. | | |

ELECTRICAL

| Alternat | or 120 amp |
|----------|--|
| Starter | 2.95 hp (2.2 kW) |
| Battery | 12-volt low-maintenance |
| | 925 cold-cranking amps @ 0° F (-18° C) |

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/ side screens; Tilt ROPS/FOPS; Rear window w/ emergency escape; Instrument panel w/: hour meter, tachometer, fuel level, hydraulic oil temperature, engine coolant temperature, diagnostic features, and security lockout; Non-suspension vinyl seat; 2 in (51 mm) retractable lap seat belt; Hand and foot throttles; Alarm package - back-up and horn; Headliner; Dome light; Top window; Cup holder; 12-volt 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; Proportional auxiliary hydraulic control - on joystick.

Indicators:

Digital hourmeter; Fuel level LCD bar graph w/ alarm.

Warning lights w/ alarms:

Seat bar reminder.

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;

OPERATING WEIGHT

| Operating weight | 5,070 lb (2300 kg) |
|--------------------------|--------------------|
| Shipping weight | 4,770 lb (2160 kg) |
| Add-on weights: | |
| Side cab glass | 47 lb (21.3 kg) |
| Polycarbonate cab door | 74 lb (33.6 kg) |
| Glass cab door w/ wiper | 134 lb (60.8 kg) |
| Suspension seat | 22 lb (10 kg) |
| Additional counterweight | 168 lb (76.6 kg) |

HYDRAULICS

| Implement pump type | Gear |
|------------------------|--|
| Displacement | 1.45 in ³ (23.8 cc) |
| Standard flow @ rated | engine RPM: |
| @ 100% efficiency | 17.5 gpm (66.2 L/min) |
| Loader control valve: | |
| Type 3 spool/o | pen center/series - series |
| Relief pressure | 3,050 psi (210 bar) |
| Port relief pressures: | |
| Loader raise | 3,263 psi (225 bar) |
| Bucket curl | 3,770 psi (260 bar) |
| Bucket dump | 1,160 psi (80 bar) |
| Hydraulic lines: | |
| Tubing | 37° JIC Flare |
| Loop hoses | SAE 100 R19 |
| Hydraulic oil cooler: | |
| Number of fins | 10 per inch (3.94 per cm) |
| Number of tube rows | s x columns 9 x 1 |
| Area | 130.7 in ² (843.2 cm ²) |

| Hydraulic oil cooler: | |
|-----------------------|--|
| Number of fins | 10 per inch (3.94 per cm) |
| Number of tube row | s x columns 9 x 1 |
| Area | 130.7 in ² (843.2 cm ²) |
| Hydraulic filter | Beta (4) = 75/spin on |
| Lift cylinders: | |
| Bore diameter | 2.25 in (57.2 mm) |
| Rod diameter | 1.38 in (34.9 mm) |
| Stroke | 25.4 in (645 mm) |
| Closed length | 38.94 in (989 mm) |
| Bucket cylinders: | |
| Bore diameter | 2.25 in (57.2 mm) |
| Rod diameter | 1.25 in (31.7 mm) |

SERVICE CAPACITY

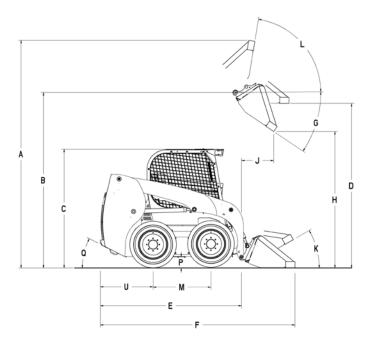
Stroke

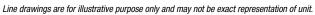
Closed length

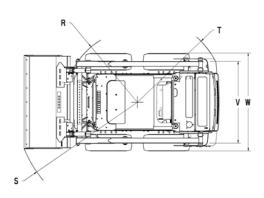
| Fuel tank | 16 gal (60.5 L) |
|------------------------|-------------------|
| Engine oil w/ filter | 7.5 qt (7.1 L) |
| Hydraulic system: | |
| Reservoir | 4.0 gal (15.1 L) |
| Total | 7.71 gal (29.2 L) |
| Chain tanks – per side | 1.65 gal (6.25 L) |

14.57 in (370.1 mm)

23.38 in (594 mm)







PERFORMANCE SPECS

| Rated operating capacity – ROC: | |
|--|--------------------|
| 50% of tipping load | 1,300 lb (590 kg) |
| with additional counterweight | 1,400 lb (635 kg) |
| Tipping load | 2,600 lb (1179 kg) |
| Breakout forces @ 3,150 psi (217 bar): | |
| Bucket cylinders | 4,180 lb (18.6 kN) |
| Lift cylinders | 2,850 lb (12.7 kN) |
| Cycle times: | |
| Raise | 3.2 sec |
| Lower | 2.0 sec |
| Dump | 1.8 sec |
| Roll back | 1.3 sec |
| | |

DIMENSIONS

| A. | Overall operating height: | |
|-----|---|--------------------------|
| | with foundry/excavating bucket | 141.4 in (3.59 m) |
| | with low profile bucket | 146.9 in (3.73 m) |
| | with low profile extended bucket | 152 in (3.86 m) |
| Hei | ght to: | |
| В. | Bucket hinge pin | 112 in (2.85 m) |
| C. | Top of ROPS | 75.5 in (1.92 m) |
| D. | Bottom of level bucket, fully raised | 105.6 in (2.68 m) |
| Ove | erall length: | |
| E. | without attachment with coupler | 95.9 in (2.44 m) |
| F. | with foundry/excavating bucket on ground | 119.2 in (3.03 m) |
| | with low profile bucket | 125 in (3.18 m) |
| | with low profile extended bucket | 129.8 in (3.30 m) |
| G. | Maximum dump angle | 40.2° |
| Н. | Dump height: | |
| | with foundry/excavating bucket | 88.4 in (2.25 m) @ 40.2° |
| | with low profile bucket | 84.8 in (2.15 m) @ 40.2° |
| J. | Dump reach at maximum height with low profile bucket | 22.7 in (0.58 m) @ 40.2° |
| Max | ximum attachment rollback: | |
| K. | Bucket on ground | 26.1° |
| L. | Bucket at full height | 95.2° |
| Μ. | Wheelbase | 37.0 in (0.94 m) |
| P. | Ground clearance – bottom of belly pan | 7.0 in (0.18 m) |
| Q. | Angle of departure | 22° |
| Cle | arance circle: | |
| R. | without bucket | 48.7 in (1.24 m) |
| S. | with 60 in (1.52 m) foundry/excavating bucket in carry position | 73.3 in (1.86 m) |
| | with 60 in (1.52 m) low profile bucket on ground | 78.5 in (1.99 m) |
| | with 60 in (1.52 m) extended low profile on ground | 83.1 in (2.11 m) |
| T. | Clearance circle rear | 56.4 in (1.43 m) |
| U. | Rear axle to bumper | 33.8 in (0.86 m) |
| V. | Tread gage with spec tires | 49.2 in (1.25 m) |
| W. | Over the tire width with spec tires | 59.8 in (1.52 m) |

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844L - F Tier 4 diesel Over & under radiator and oil cooler Glow plugs Fuel filter with water trap Dual element air cleaner 120 amp alternator 925 CCA 12-volt battery Master electrical disconnect

POWERTRAIN

1-speed hydrostatic four wheel drive Servo-assist mechanically-controlled pumps ASA #80HS drive chain SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics:

@ 3,050 psi (210 bar) - 17.5 gpm (59 L/min) Auxiliary hydraulic disconnects, ISO flat-face – connect-under-pressure with case drain

Hydraulic circuit pedal lock

Loader arm float position

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

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

Machine protection auto shutdown Mounting points for add-on counterweights Halogen lights:

2 front 2 side

2 rear flood

Rear tail lights

Lockable service access hood

Single-point daily servicing

Pre-wired for rotating beacon

Remote oil drain

Remote oil and fuel filters

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Electro-hydraulic controls: For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls

Vinyl mechanical suspension seat

Deluxe cloth, air suspension seat, with heater and lumbar support Interior mirror

Enclosed cab including glass door with wiper and washer, sliding side windows, heater, shoulder belt, radio with speakers, keyless start

3 inch (76.2 mm) retractable seat belt Heater and air conditioner Open cab interior trim package Demolition cab door with polycarbonate FOPS level 2

ENGINE

Coolant block heater

HYDRAULICS

Second auxiliary hydraulics

LOADER

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

OTHER

Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Lift points - four-point or single-point Language decals Factory-installed tires - see below Buckets - see below Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spill guard

Bolt-on heavy-duty bucket teeth - field kit 42 in (1.07 m) and 48 in (1.22 m) pallet fork Rear door guard insert

Special paint Steel tire tracks

TIRE SELECTION

| | 0. | Ply | Tread | Tire | Tread | Over Tires | Each Tire |
|---------------|----------------|--------|-------|-------|------------------|----------------|-----------------|
| | Size | Rating | Depth | Width | Gage | Width | Weight |
| Heavy-Duty | 10 L x 16.5 | _ | _ | _ | 49.2 in (1.25 m) | 59 in (1.50 m) | 87 lb (39.5 kg) |
| Premium | 10 L x 16.5 | _ | _ | _ | 49.2 in (1.25 m) | 59 in (1.50 m) | 96 lb (44.0 kg) |
| Premium-Lined | 10 L x 16.5 | _ | _ | _ | 49.2 in (1.25 m) | 59 in (1.50 m) | 63 lb (28.5 kg) |
| Premium | 27 L x 10.5-15 | _ | _ | _ | _ | 64 in (1.63 m) | 69 lb (31.0 kg) |

OPTIONAL BUCKETS

| Туре | Width | Weight | Heaped Capacity |
|------------------|----------------|-----------------|---|
| Dirt & Foundry | 60 in (1.52 m) | 300 lb (138 kg) | 11.3 ft ³ (0.32 m ³) |
| • | 66 in (1.68 m) | 385 lb (175 kg) | 14.8 ft ³ (0.42 m ³) |
| | 72 in (1.83 m) | 420 lb (190 kg) | 16.2 ft ³ (0.46 m ³) |
| Low Profile | 60 in (1.52 m) | 375 lb (170 kg) | 12.0 ft ³ (0.34 m ³) |
| | 66 in (1.68 m) | 440 lb (200 kg) | 13.4 ft ³ (0.38 m ³) |
| | 72 in (1.83 m) | 480 lb (218 kg) | 14.8 ft ³ (0.42 m ³) |
| Low Profile | 60 in (1.52 m) | 400 lb (182 kg) | 14.1 ft ³ (0.40 m ³) |
| Extended | 66 in (1.68 m) | 470 lb (214 kg) | 15.9 ft ³ (0.45 m ³) |
| | 72 in (1.83 m) | 510 lb (232 kg) | 17.7 ft ³ (0.50 m ³) |
| Light Material | 60 in (1.52 m) | 375 lb (170 kg) | 19.4 ft ³ (0.55 m ³) |
| • | 72 in (1.83 m) | 475 lb (216 kg) | 23.3 ft ³ (0.66 m ³) |
| Manure & Slurry | 60 in (1.52 m) | 370 lb (168 kg) | 15.9 ft ³ (0.45 m ³) |
| | 72 in (1.83 m) | 480 lb (218 kg) | 19.1 ft ³ (0.54 m ³) |
| Heavy-Duty | 66 in (1.68 m) | 450 lb (205 kg) | 13.1 ft ³ (0.37 m ³) |
| | 72 in (1.83 m) | 510 lb (230 kg) | 14.1 ft³ (0.40 m³) |
| Heavy-Duty | 66 in (1.68 m) | 520 lb (235 kg) | 16.6 ft ³ (0.47 m ³) |
| with spill guard | 72 in (1.83 m) | 585 lb (265 kg) | 18.4 ft ³ (0.52 m ³) |



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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