

R130

SKID STEER LOADER

TIER 4 FINAL CERTIFIED



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Model	ISM N844L-F
Emissions Certification	Tier 4 Final
Type Diesel 4-strok	ke, 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 Main filter	14 micron/in line 10 micron/spin-on
Air intake Natural	ly aspirated w/o EGR
Exhaust aftertreatment	Diesel Particulate Filter – DPF
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2825 +/- 25 2800 1200 +/- 50
Horsepower @ 2800 RPM -	- SAE J1349:
Gross Net	48.8 hp (36.4 kW) 45.8 hp (34.1 kW)
Peak torque @ 1800 RPM	105.5 lb·ft (143 N·m)
Radiator: Core type Core size area Rows of tubes x columns	All aluminum 2.77 ft ² (0.257 m ²) 43 x 3

Fan:

Diameter	17.7 in (450 mm)
Ratio	0.89:1

16 +/- 2 psi

(1.10 +/- 0.14 bar)

Water pump:

Cap pressure

Centrifugal Style 19.0 gpm (71.9 L/min)

Engine lubrication pump Pressure feed w/ Trichoid pump

Pump operating angle ratings:

35° Side to side Bucket up 35° 35° **Bucket Down**

LIFT GEOMETRY

Radial Lift

Drive pump controls Direct mechanical Pump to engine ratio 1:1 2.14 in³ (35 cm³) Displacement Flow @ rated engine RPM: @ 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 2.14 in³ (35 cm³) Displacement Flow @ rated engine RPM: @ 97% efficiency 25.1 gpm (95 L/min) 362 psi (24.5 bar) Charge pressure System relief pressure 5,220 psi (360 bar) Drive motors: Displacement 19.8 in³ (325 cm³) Motor RPM @ high idle and 97% efficiency 313

Max. torque @ 5,000 psi (345 bar): 1,315 lb·ft (1 783 N·m) Travel speed 7.4 mph (11.9 kph) Final drive Single-reduction chain drive Drive chain:

Size

ASA #80 Tensile strength 21,000 lb (93.4 kN) Axles:

4,381 lb·ft (5 940 N·m) Torque Diameter 2.0 in (50.8 mm) Length 13.2 in (346.0 mm)

Parking brake:

Spring-applied, hydraulic Type release multiple disc.

Depress on/off brake button Engagement on handle or instrument panel,

raise seat bar, get off seat or stop engine.

120 amn

ELECTRICAL Alternator

ratoriator	120 41119
Starter	2.95 hp (2.2 kW)
Battery	12-volt low-maintenance
925 cold-cra	anking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy w/ side screens; Keyed start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Suspension Seat, vinyl w/ 2 in (51 mm) retractable 3 point lap seat belt; Hand and foot throttle; Alarm package back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional auxiliary hydraulic control - on joystick; Advanced Instrument Cluster w/ digital hour meter,

tachometer, fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

Warning lights with alarms:

Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:

Battery voltage - plus display; Oil service.

Indicator light:

Engine preheat; Parking brake;

Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 60 in Dirt & Foundry bucket; full of fuel; 10 x 16.5 tires: 5,070 lb (2 300 kg) 4,770 lb (2 160 kg) Shipping weight 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 (10.0 kg) Additional counterweight 168 lb (76.2 kg)

HYDRAULICS

Implement pump type	Gear	
Displacement	1.45 in ³ (23.8 cm ³)	
Standard flow @ rated engine RPM: @ 100% efficiency 17.5 gpm (66.2 L/n		
Loader control valve: Type 3 spool/op Relief pressure	pen center/series - series 3,050 psi (210 bar)	
Port relief pressures: Loader raise Bucket curl Bucket dump	3,263 psi (225 bar) 3,770 psi (260 bar) 1,160 psi (80 bar)	
Hydraulic lines: Tubing Loop hoses	37° JIC Flare SAE 100 R19	
Hydraulic oil cooler:	10 per inch (2.04 per em)	

Number of fins 10 per inch (3.94 per cm) Number of tube rows x columns 9 x 1 Area 130.7 in² (843.2 cm²)

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	25.40 in (645.0 mm)
Closed length	38.94 in (989.0 mm)

Bucket cylinders:

Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.25 in (31.7 mm)
Stroke	14.57 in (370.1 mm)
Closed length	23.38 in (594.0 mm)

SERVICE CAPACITIES	
Fuel tank	16.0 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 (6.5 L)

PERFORMANCE SPECS

Rated operating capacity - ROC*:

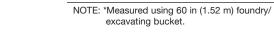
50% of tipping load w/ additional counterweight 1,300 lb (590 kg) 1,400 lb (635 kg)

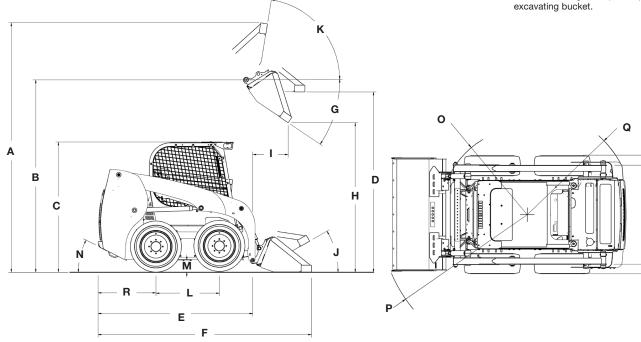
2,600 lb (1 179 kg) Tipping load*

Breakout forces @ 3,150 psi (217 bar)*: Bucket cylinders Lift cylinders – tip limit 4,180 lb (18.6 kN) 2,850 lb (12.7 kN) Cycle times:

Raise 3.2 sec 2.0 sec Lower Dump 1.8 sec 1.3 sec Roll back

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Line drawings are for illustrative purpose only and may not be exact representation of unit.

141.4 in (3.59 m)
141 4 in (2.50 m)
141.4 in (3.59 m) 146.9 in (3.73 m) 152.0 in (3.86 m)
112.0 in (2.85 m) 75.5 in (1.92 m) 105.6 in (2.68 m)
95.9 in (2.44 m) 119.2 in (3.03 m) 125.0 in (3.18 m) 129.8 in (3.30 m)
40.2°
4 in (2.25 m) @ 40.2° 3 in (2.15 m) @ 40.2° 7 in (0.58 m) @ 40.2°
111 (0.36 111) @ 40.2
26.1° 95.2°
37.0 in (0.94 m)
7.0 in (0.18 m)
22.0°
48.7 in (1.24 m) 73.3 in (1.86 m) 78.5 in (1.99 m) 83.1 in (2.11 m)
56.4 in (1.43 m)
33.8 in (0.86 m)
49.2 in (1.25 m)
59.0 in (1.50 m)
3

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TIRE SELECTION				
Туре	Size	Tread Gauge	Over Tires Width	Each Tire Weight*
Heavy-Duty	10 L x 16.5	49.2 in (1.25 m)	59.0 in (1.50 m)	87 lb (39.5 kg)
Premium	10 L x 16.5	49.2 in (1.25 m)	59.0 in (1.50 m)	96 lb (44.0 kg)
Premium-Lined	10 L x 16.5	49.2 in (1.25 m)	59.0 in (1.50 m)	63 lb (28.5 kg)
Non-Pneumatic - Solid	10 L x 16.5	51.0 in (1.29 m)	64.0 in (1.55 m)	229 lb (104.0 kg)
Premium	27 L x 10.5-15	_	64.0 in (1.63 m)	69 lb (31.0 kg)

NOTE: *Tire weight does not include the wheel weight.

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 Extended	60 in (1.52 m)	400 lb (182 kg)	14.1 ft ³ (0.40 m ³)
	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 ft ³ (0.40 m ³)
Heavy-Duty with spillguard	66 in (1.68 m)	520 lb (235 kg)	16.6 ft ³ (0.47 m ³)
	72 in (1.83 m)	585 lb (265 kg)	18.4 ft ³ (0.52 m ³)

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844L-F diesel

135.2 CID (2.2 L) Naturally Aspirated

Tier 4 Final Certified

Spark Arresting Diesel Particulate Filter (DPF) muffler

Charged Air Cooler (CAC)

Indirect fuel injection

Horsepower:

Gross: 48.8 hp (36.4 kW) Net: 45.8 hp (34.1 kW)

Peak torque: 105.5 lb·ft (143 N·m)

120 amp alternator

Dual element air cleaner

Organic Acid Technology (OAT)

Anti-freeze solution to -34° F

Fuel tank - 16 gal (U.S.)

Over and under radiator and oil cooler

Single plane, top and bottom oil cooler/

radiator configuration

Glow plugs

Integral engine oil cooler Fuel filter with water trap 925 CCA 12V battery Master electrical disconnect

DRIVETRAIN

1-speed hydrostatic four wheel drive ASA #80 drive chain SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics:

@ 3,050 psi (210 bar) - 17.5 gpm

(66.2 L/min)

6 micron oil filtration system

3-spool loader control valve

Auxiliary hydraulic disconnects, ISO flat-face - connect-under-pressure

with case drain

Hydraulic circuit pedal lock

Auxiliary function lockout override

Loader lift lockout override

Heavy-duty hydraulic oil cooler

Loader arm float position

Loader function lockout system

LOADER

Manual attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 1,300 lbs

Tipping load: 2,600 lbs

TIRES

10 X 16.5 Heavy duty

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood

Heavy duty front lights

Pre-wired for rotating beacon

Lockable service access hood

Single-point daily service

Rear tail lights

Remote oil drain

Remote oil and fuel filters

Block heater

Debris ingression sealing

Mounting points for add-on counterweights

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

Fully sealed and pressurized - FSP Glass door with wiper and washer Sliding side windows - removable

Ventilation system with integrated heater

AM/FM radio with 2 speakers

Keyless start ignition Control lockout system

Electro-hydraulic controls:

For drive/steering, loader functions Switchable between H and ISO patterns

Adjustable sensitivity of controls

Mechanical hand controls

Hand and foot controls:

Hand controls the loader drive function and foot controls the bucket and boom

Non suspension seat

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

Open cab interior trim package

Demolition cab door with polycarbonate FOPS level 2

HYDRAULICS

Second auxiliary hydraulic Hydraulic one-way self-leveling Ride control

LOADER

Hydraulic attachment coupler

OTHER

Language decals

Factory-installed tires - see page 3

Buckets - see page 3

Bolt-on bucket cutting edges

Bolt-on heavy-duty bucket spill guard

Special paint

Offsite service arrangement

Telematics

FACTORY SUPPLIED ATTACHMENTS

Interior mirror

Add-on counterweights

Road lights

Rotating beacon

Four-corner LED strobe

Bolt-on heavy-duty bucket teeth

48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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