

SR175

SKID STEER LOADER TIER 4 FINAL CERTIFIED

ENGINE

| Model ISM | 1 N844LTA-DI-F-50/E4 | | | |
|-------------------------------|--|--|--|--|
| Type Die | Diesel 4-stroke, Turbo, D.I. | | | |
| Cylinders | 4 | | | |
| Bore/Stroke | 3.31 x 3.94 in | | | |
| | (84 x 100 mm) | | | |
| Displacement | 135.2 in ³ (2.2 L) | | | |
| Fuel injection | Direct, high pressure common rail – HPCR | | | |
| Fuel | #2 Diesel | | | |
| Fuel filter: | | | | |
| Pre-filter Main filter | Beta (30) = 200/spin on Beta (4) = 20/spin on | | | |
| Air intake | Turbocharged and | | | |
| inter | cooled w/ external EGR | | | |
| Exhaust aftertreatment | Diesel oxidation catalyst – DOC | | | |
| Cooling | Liquid | | | |
| Engine speeds | RPM | | | |
| High idle – no load | 2825 +/- 25 | | | |
| Rated – full load Low idle | 2800 1200 +/- 50 | | | |
| Horsepower @ 2800 RPM | | | | |
| Gross | 67 hp (50.0 kW) | | | |
| Net | 64 hp (47.7 kW) | | | |
| Peak torque @ 1800 RPM | | | | |
| Radiator: | <u>_</u> | | | |
| Core type | All aluminum | | | |
| Core size area | 2.05 ft ² (0.191 m ²) | | | |
| Rows of tubes x colun | | | | |
| Cap pressure | 16 +/- 2 psi | | | |
| | (1.10 +/- 0.14 bar) | | | |
| Fan: | | | | |
| Diameter | 17.7 in (450 mm) | | | |
| Ratio | 0.89:1 | | | |
| Water pump: | | | | |
| Style Flow | Centrifugal 14.7 gpm (55.5 L/min) | | | |
| | Pressure feed | | | |
| Engine lubrication pump | w/ Trichoid pump | | | |
| Pump operating angle ra | | | | |
| Side to side | 35° | | | |
| Bucket up Bucket down | 35° 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.)

| AIN (co | | | |
|-------------|--|--|--|
| | | | |
| nent | 19.8 in ³ (325 cc) | | |
| – optional: | | | |
| | 12.2 in ³ (200 cc) | | |
| gh idle and | 97% efficiency: | | |
| eed | 313 | | |
| ed | 443 | | |
| | cement and relief | | |
| | 000 psi (345 bar): | | |
| | 1,315 lb∙ft (1783 N·m) | | |
| | | | |
| | 7.4 mph (11.9 kph) | | |
| ptional | 10.8 mph (17.4 kph) | | |
| Single- | reduction chain drive | | |
| | | | |
| | ASA #80 | | |
| h | 21,000 lb (93.4 kN) | | |
| | | | |
| displacen | nent and | | |
| re i | 4,381 lb·ft (5940 N·m) | | |
| | 2.0 in (50.8 mm) | | |
| | 15.1 in (384 mm) | | |
| | | | |
| Spri | ng-applied, hydraulic | | |
| | release multiple disc. | | |
| Denres | s on/off brake button | | |
| | e or instrument panel. | | |
| | seat bar, get off seat, | | |
| 14.00 | | | |
| | - optional: gh idle and eed nax. displa ulated @ 5, ptional Single- h displacen e Spri Spri Depress on handle | | |

ELECTRICAL

| Alternat | or 120 amp |
|----------|--|
| Starter | 2.68 hp (2.0 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:

Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature.

OPERATOR ENVIRONMENT (cont.)

Warning alarms: Battery voltage – plus display

Battery voltage – plus

Indicator light:

Engine preheat; Parking brake;

Seat bar reminder.

OPERATING WEIGHT

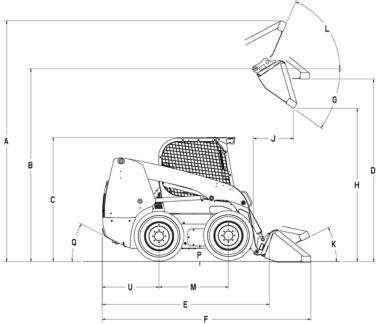
| Operating weight | 6,270 lb (2842 kg) |
|--------------------------|--------------------|
| Shipping weight | 5,970 lb (2705 kg) |
| Add-on weights: | |
| Side cab glass | 47 lb (21.3 kg) |
| Polycarbonate cab door | 74 lb (33.6 kg) |
| Glass cab door w/ wiper | 134 lb (60.8 kg) |
| Suspension seat | 22 lb (10 kg) |
| Additional counterweight | 140 lb (63.8 kg) |
| | |

HYDRAULICS

| Implement pump type | Gear | | |
|---|--|--|--|
| Displacement: | | | |
| Standard aux. | 1.7 in ³ (27.8 cc) | | |
| High flow aux. | 0.84 in ³ (13.8 cc) | | |
| Standard flow @ rated er | aine RPM: | | |
| @ 100% efficiency | 20.6 gpm (78 L/min) | | |
| Optional high flow @ rate | d engine RPM: | | |
| | 30.7 gpm (116.2 L/min) | | |
| Loader control valve: | <u> </u> | | |
| | en center/series - series | | |
| Relief pressure | 3,050 psi (210 bar) | | |
| · | 0,000 por (210 bar) | | |
| Port relief pressures: Loader raise | 2 062 pai (005 bar) | | |
| Bucket curl | 3,263 psi (225 bar) 3,770 psi (260 bar) | | |
| Bucket dump | 1,160 psi (200 bar) | | |
| · · | 1,100 p31 (00 bar) | | |
| Hydraulic lines: Tubing | 37° JIC Flare | | |
| Loop hoses | SAE 100 R19 | | |
| | 3AL 100 H13 | | |
| Hydraulic oil cooler: | 0 | | |
| Number of fins 1 Number of tube rows | 0 per inch (3.94 per cm) 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 | 1.50 in (38.1 mm) | | |
| Stroke | 31.69 in (804.9 mm) | | |
| Closed length | 45.59 in (1158 mm) | | |
| Bucket cylinders: | | | |
| Bore diameter | 2.75 in (69.9 mm) | | |
| Rod diameter | 1.38 in (34.9 mm) | | |
| Stroke Closed length | 16.14 in (410 mm) 24.02 in (610 mm) | | |
| | 24 u 2 m 6 u 10 mm | | |

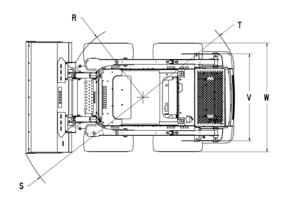
SERVICE CAPACITY

| Fuel tank | 19.5 gal (73.8 L) |
|------------------------|-------------------|
| Engine oil w/ filter | 7.5 qt (7.1 L) |
| Hydraulic system: | |
| Reservoir | 5.0 gal (18.9 L) |
| Total | 8.5 gal (32.2 L) |
| Chain tanks – per side | 1.95 gal (7.4 L) |



Line drawings are for illustrative purpose only and may not be exa

| | | 11011 54011 |
|------|---|--------------------------|
| DI | MENSIONS | |
| Α. | Overall operating height: | |
| | with foundry/excavating bucket | 153.4 in (3.90 m) |
| | with low profile bucket | 157.3 in (4.00 m) |
| | with low profile extended bucket | 162.2 in (4.12 m) |
| Hei | ght to: | |
| В. | Bucket hinge pin | 122 in (3.10 m) |
| C. | Top of ROPS | 77.7 in (1.97 m) |
| D. | Bottom of level bucket, fully raised | 115.2 in (2.93 m) |
| Ove | rall length: | |
| Е. | without attachment with coupler | 105.7 in (2.69 m) |
| F. | with foundry/excavating bucket on ground | 130.1 in (3.31 m) |
| | with low profile bucket | 134.3 in (3.41 m) |
| | with low profile extended bucket | 139.3 in (3.54 m) |
| G. | Maximum dump angle | 39.6° |
| н. | Dump height: | |
| | with foundry/excavating bucket | 97.2 in (2.47 m) @ 39.6° |
| | with low profile bucket | 94.6 in (2.40 m) @ 39.6° |
| J. | Dump reach at maximum height with low profile bucket | 24.4 in (0.62 m) @ 39.6° |
| Max | ximum attachment rollback: | |
| Κ. | Bucket on ground | 31.6° |
| L. | Bucket at full height | 98.6° |
| М. | Wheelbase | 44.4 in (1.13 m) |
| P. | Ground clearance – bottom of belly pan | 7.0 in (0.18 m) |
| Q. | Angle of departure | 23° |
| Clea | arance circle: | |
| R. | without bucket | 50.7 in (1.29 m) |
| S. | with 66 in (1.68 m) foundry/excavating bucket in carry position | 78.4 in (1.99 m) |
| | with 66 in (1.68 m) low profile bucket on ground | 81.7 in (2.07 m) |
| | with 66 in (1.68 m) extended low profile on ground | 86.3 in (2.19 m) |
| Т. | Clearance circle rear | 62.9 in (1.60 m) |
| U. | Rear axle to bumper | 36.4 in (0.92 m) |
| V. | Tread gage with spec tires | 53.9 in (1.37 m) |
| w. | Over the tire width with spec tires | 64 in (1.63 m) |



PERFORMANCE SPECS

Rated operating capacity - ROC:

| | Rated operating capacity – ROC: | |
|------------------------------|---|--|
| K I | 50% of tipping load with additional counterweight | 1,750 lb (790 kg) 1,850 lb (839 kg) |
| | Tipping load | 3,500 lb (1588 kg) |
| | Breakout forces @ 3,150 psi (217 bar): | |
| | Bucket cylinders | 7,270 lb (32.3 kN) |
| F | Lift cylinders | 3,810 lb (16.9 kN) |
| xact representation of unit. | Cycle times: | . |
| | Raise Lower | 3.4 sec 1.9 sec |
| | Dump | 2.6 sec |
| | Roll back | 1.9 sec |
| | | |
| | | 153.4 in (3.90 m) |
| | | 157.3 in (4.00 m) |
| | | 162.2 in (4.12 m) |
| | | 102.2 11 (4.12 11) |
| | | 122 in (3.10 m) |
| | | 77.7 in (1.97 m) |
| | | 115.2 in (2.93 m) |
| | | 105 7 in (0.60 m) |
| | | 105.7 in (2.69 m) |
| hd | | 130.1 in (3.31 m) |
| | | 134.3 in (3.41 m) |
| | | 139.3 in (3.54 m) |
| | | 39.6° |
| | 9 | 7.2 in (2.47 m) @ 39.6° |
| | 9 | 4.6 in (2.40 m) @ 39.6° |
| profile bucket | 2 | 4.4 in (0.62 m) @ 39.6° |
| | | 31.6° |
| | | 98.6° |
| | | 44.4 in (1.13 m) |
| | | 7.0 in (0.18 m) |
| | | 23° |
| | | |
| | | 50.7 in (1.29 m) |
| ucket in carry position | | 78.4 in (1.99 m) |
| ground | | 81.7 in (2.07 m) |
| on ground | | 86.3 in (2.19 m) |
| | | 62.9 in (1.60 m) |
| | | 36.4 in (0.92 m) |
| | | 53.9 in (1.37 m) |
| | | 64 in (1.63 m) |

TIRE SELECTION

| | Size | Ply Rating | Tread Depth | Tire Width | Tread Gage | Over Tires Width | Each Tire Weight |
|---------------|-------------|---------------|----------------|---------------|------------------|---------------------|---------------------|
| Heavy-Duty | 10 L x 16.5 | | | _ | 53.9 in (1.37 m) | 64 in (1.63 m) | 87 lb (39.5 kg) |
| Premium | 10 L x 16.5 | _ | _ | _ | 53.9 in (1.37 m) | 64 in (1.63 m) | 96 lb (44.0 kg) |
| Premium-Lined | 10 L x 16.5 | _ | _ | _ | 53.9 in (1.37 m) | 64 in (1.63 m) | 63 lb (28.5 kg) |
| Severe Duty | 10 L x 16.5 | _ | _ | _ | 53.9 in (1.37 m) | 64 in (1.63 m) | 115 lb (52.5 kg) |
| Non-Pneumatic | 10 L x 16.5 | _ | _ | _ | 53.9 in (1.37 m) | 64 in (1.63 m) | 229 lb (104 kg) |
| Heavy-Duty | 12 L x 16.5 | _ | _ | _ | _ | 70 in (1.78 m) | 110 lb (50 kg) |
| Premium | 12 L x 16.5 | _ | _ | _ | _ | 70 in (1.78 m) | 120 lb (54.5 kg) |
| Premium Lined | 12 L x 16.5 | _ | _ | _ | _ | 70 in (1.78 m) | 120 lb (54.5 kg) |

OPTIONAL BUCKETS

| Туре | Width | Weight | Heaped Capacity |
|-----------------|----------------|-----------------|---|
| Dirt & Foundry | 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) |
| | 78 in (1.98 m) | 440 lb (200 kg) | 17.7 ft ³ (0.50 m ³) |
| Low Profile | 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 | 66 in (1.68 m) | 470 lb (214 kg) | 15.9 ft ³ (0.45 m ³) |
| Extended | 72 in (1.83 m) | 510 lb (232 kg) | 17.7 ft ³ (0.50 m ³) |
| | 78 in (1.98 m) | 540 lb (245 kg) | 19.1 ft ³ (0.54 m ³) |
| | 84 in (2.13 m) | 575 lb (262 kg) | 20.5 ft ³ (0.58 m ³) |
| Light Material | 72 in (1.83 m) | 475 lb (216 kg) | 23.3 ft ³ (0.66 m ³) |
| - | 84 in (2.13 m) | 540 lb (245 kg) | 27.5 ft ³ (0.78 m ³) |
| Manure & Slurry | 72 in (1.83 m) | 480 lb (218 kg) | 19.1 ft ³ (0.54 m ³) |
| | 84 in (2.13 m) | 545 lb (248 kg) | 22.6 ft ³ (0.64 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) |
| | 78 in (1.98 m) | 530 lb (240 kg) | 15.5 ft ³ (0.44 m ³) |
| | 84 in (2.13 m) | 550 lb (250 kg) | 17.0 ft ³ (0.48 m ³) |
| Heavy-Duty | 66 in (1.68 m) | 520 lb (235 kg) | 16.6 ft ³ (0.47 m ³) |
| with spillguard | 72 in (1.83 m) | 585 lb (265 kg) | 18.4 ft ³ (0.52 m ³) |
| | 78 in (1.98 m) | 605 lb (275 kg) | 19.8 ft ³ (0.56 m ³) |
| | 84 in (2.13 m) | 640 lb (290 kg) | 21.5 ft ³ (0.61 m ³) |

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1 ENGINE ISM N844LTA-DI-F-50 diesel Over & under radiator and oil cooler Glow plugs Integral engine oil cooling 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) – 20.6 gpm (78 L/min) Auxiliary hydraulic disconnects, ISO flat-face – connect-under-pressure with case drain 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

·____·

LOADER

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

POWERTRAIN

2-speed hydrostatic four wheel drive

ENGINE

Coolant block heater

HYDRAULICS

High-flow auxiliary hydraulics – combined: @ 3,050 psi (210 bar) – 30.7 gpm (116.2 L/min)

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 page 3 Buckets – see page 3 Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spillguard Bolt-on heavy-duty bucket spillguard 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



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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All Case construction equipment is biodiesel ready.