

## **Bid specifications for (Skid Steer)**

### **Compact Track Loader or similar Compact Track Loader**

#### **ENGINE**

- YES\_\_\_ NO\_\_\_ Four Cylinder, turbocharged diesel engine
- YES\_\_\_ NO\_\_\_ Engine shall be certified to EPA Tier FT4/EU Stage IV non-road emission standards
- YES\_\_\_ NO\_\_\_ Engine displacement shall be no less than 186.3 cu. in. (3.1L)
- YES\_\_\_ NO\_\_\_ Engine net peak power (SAE J1349 / ISO 9249) shall be no less than 97 hp (72 kW) at 2,500 rpm
- YES\_\_\_ NO\_\_\_ Engine gross power (ISO 14396) shall be no less than 100 hp (74.6 kW) at 2,500 rpm
- YES\_\_\_ NO\_\_\_ Engine shall develop at least a 39% torque rise
- YES\_\_\_ NO\_\_\_ Engine shall have an electric transfer fuel pump with auto prime
- YES\_\_\_ NO\_\_\_ Service interval for the engine oil and oil filter shall be a minimum of 500 hours
- YES\_\_\_ NO\_\_\_ The engine shall have an auto tension serpentine fan cooling fan belt that never needs adjusting
- YES\_\_\_ NO\_\_\_ Engine air filter restriction indicators shall be displayed in the cab monitor
- YES\_\_\_ NO\_\_\_ Engine shall be governed electronically providing precise multi-injection events that improve machine performance, fuel efficiency and improved cold starting in extreme ambient conditions
- YES\_\_\_ NO\_\_\_ The engine shall have automatic pre-heat and auto-shutdown provided
- YES\_\_\_ NO\_\_\_ Engine to provide Auto Idle feature to automatically reduce engine speed to idle when the machine is not in use for maximum fuel efficiency
- YES\_\_\_ NO\_\_\_ The engine, hydrostatic-hydraulic and chain chase reservoirs shall all utilize 10W-30 oil to simplify service
- YES\_\_\_ NO\_\_\_ Quick-pivot ROPS that allows direct access to major hydraulic components and engine starter when the boom is in its lowered position
- YES\_\_\_ NO\_\_\_ The fuel tank shall be no less than 30 gallons (114L)

#### **COOLING**

- Hydraulically driven variable speed cooling fan to cool only on demand for fuel economy, lower average
- YES\_\_\_ NO\_\_\_ noise levels, and less cooler clogging in high debris applications
- YES\_\_\_ NO\_\_\_ Unit shall have a coolant recovery tank provided
- The unit should be equipped with a tri-cool configuration that pulls fresh air individually through the
- YES\_\_\_ NO\_\_\_ Hydraulic and Engine coolers for dedicated first pass air flow

- Unit shall provide a reversing fan option that automatically blows out the engine and hydraulic coolers periodically
- YES\_\_\_ NO\_\_\_
- The cooling system shall pull air in from both sides of the machine, and top rear hood, and then directing it away from the operator station and out the rear of the unit
- YES\_\_\_ NO\_\_\_

#### **POWER TRAIN**

- Maximum travel speed shall be at least 7.8 mph (12.6 km/h)
- YES\_\_\_ NO\_\_\_
- The transmission shall be electronically modulated soft shift 2-speed
- YES\_\_\_ NO\_\_\_
- The transmission system must be directly coupled to the engine without additional belts or pulleys
- YES\_\_\_ NO\_\_\_
- The parking brake shall be automatic spring applied, hydraulically released, wet-disk and sealed from water, mud and dust contamination.
- YES\_\_\_ NO\_\_\_

#### **HYDRAULIC SYSTEM**

- Hydraulic Oil Filter Restriction Indicator shall be displayed in the cab monitor
- YES\_\_\_ NO\_\_\_
- The hydraulic system pressure at the couplers shall be no less than 3,450 psi
- YES\_\_\_ NO\_\_\_
- The standard pump flow shall be no less than 25 gpm (95 L/m)
- YES\_\_\_ NO\_\_\_
- The calculated standard flow hydraulic horsepower shall be no less than 50 hp (38 kW)
- YES\_\_\_ NO\_\_\_
- Auxiliary hydraulics with convenient flat face quick couplers shall be connect under pressure style
- YES\_\_\_ NO\_\_\_
- Sight gauge showing hydraulic oil level shall be easily viewed from inside the lockable engine compartment
- YES\_\_\_ NO\_\_\_
- Hydraulic fittings shall have an O-ring face-seal to virtually eliminate oil leaks
- YES\_\_\_ NO\_\_\_

#### **ELECTRICAL**

- The loader shall have 2 front halogen work lights and 1 rear work light to illuminate the work area
- YES\_\_\_ NO\_\_\_
- Courtesy lighting feature shall provide an adjustable time delay to automatically shut off all lights after the machine is turned off for enhanced safety and battery protection
- YES\_\_\_ NO\_\_\_
- No tools access to maintenance free battery with the boom in the lowered position
- YES\_\_\_ NO\_\_\_
- Switches and electrical connectors are sealed from moisture and dirt to help prevent corrosion
- YES\_\_\_ NO\_\_\_
- Battery shall be no less than 12 volt, 925 CCA
- YES\_\_\_ NO\_\_\_
- In cab patented Power Quik-Tatch™ system shall be electronically activated for convenient machine to attachment coupling
- YES\_\_\_ NO\_\_\_

#### **OPERATOR STATION**

- Cab enclosure option shall be pressurized and sealed
- YES\_\_\_ NO\_\_\_
- Cab enclosure shall provide a swing-out curved glass front door, not an overhead roll-up door, for maximum visibility and a large exit/entry opening
- YES\_\_\_ NO\_\_\_

- Machine shall be equipped with auxiliary hydraulics activated by a thumb switch located on EH joystick controls
- YES\_\_\_ NO\_\_\_ Joystick control options shall provide a foot throttle for fuel efficiency and periodic power bursts
- YES\_\_\_ NO\_\_\_ Optional Joystick Control Option must be EH and not Pilot hydraulic controlled
- YES\_\_\_ NO\_\_\_ Machine must be equipped with a standard equipment pull-down interlocking lap bar
- YES\_\_\_ NO\_\_\_ Retractable seat belt shall be provided as standard equipment
- Deluxe instrumentation EMU with: Operator-selectable monitoring - Hour meter, engine rpm, battery voltage, diagnostics, EMU configuration, engine coolant temperature, hydraulic oil temperature / LED warning indicators - Glow plug, seat switch, seat belt, door open, auxiliary hydraulics, park brake engaged, 2-speed engaged, stop, low engine oil pressure, engine coolant over-temperature, battery not charging, air filter restriction, and hydraulic filter restriction
- YES\_\_\_ NO\_\_\_

#### **GENERAL SPECIFICATIONS**

- Both the negative and positive terminals of the battery must be directly accessible with the loader arm located in any position
- YES\_\_\_ NO\_\_\_
- The boom cylinders shall be cushioned for machine protection, smoother operation, and lower noise
- YES\_\_\_ NO\_\_\_
- Fuel tank shall be protected by a locking engine compartment and easily accessed without opening a rearward door
- YES\_\_\_ NO\_\_\_
- The tipping load shall be no less than 10,570 lb. (4799 kg) rated with standard track and foundry bucket.
- YES\_\_\_ NO\_\_\_
- The boom break out with HD construction bucket shall be no less than 7,750 lb. (3515 kg)
- YES\_\_\_ NO\_\_\_
- Bucket breakout force with HD construction bucket shall be no less than 9,250 lb. (4196 kg)
- YES\_\_\_ NO\_\_\_
- The machine shall have four point front and rear tie downs for unit transport
- The unit shall be provided with an in-cab boom service lockout bar so only one person can easily secure the boom in the upright position
- YES\_\_\_ NO\_\_\_
- Operating weight with standard equipment, ROPS cab, 175 lb operator and full fuel tank shall be a minimum of 12,100 lb. (5493 kg)
- YES\_\_\_ NO\_\_\_

#### **FRAMES AND STRUCTURES**

- The tubular lower lift arms shall have forged ends for added strength
- YES\_\_\_ NO\_\_\_
- Ground clearance under the loader shall be no less than 9.4 in. (.24 m)
- YES\_\_\_ NO\_\_\_
- The bucket rollback @ ground, degrees shall be no less than 35
- YES\_\_\_ NO\_\_\_
- Unit shall have height to hinge pin no less than 11 ft. 0 in. (3.35 m)
- YES\_\_\_ NO\_\_\_
- The height to top of the ROPS shall be maximum 7 ft. 3 in. (2.20 m)
- YES\_\_\_ NO\_\_\_

#### **UNDERCARRIAGE**

- YES\_\_\_ NO\_\_\_ The tractive effort must be no less than 11,500 lbs. (5221 kg).
- YES\_\_\_ NO\_\_\_ The undercarriage rollers must be composed of steel and have no less than 5 rollers
- YES\_\_\_ NO\_\_\_ The front and rear idlers must be dual flanged to eliminate de-tracking and provide a smoother ride
- YES\_\_\_ NO\_\_\_ The middle rollers must be triple flanged design to eliminate de-tracking and provide a smoother ride
- YES\_\_\_ NO\_\_\_ The drive hoses must have shield type protection
- YES\_\_\_ NO\_\_\_ The rubber track design must be reinforced with a steel cord
- YES\_\_\_ NO\_\_\_ The track lugs must be imbedded metal for longer life and performance
- YES\_\_\_ NO\_\_\_ The track tensioner must be horizontal design with single grease zerk adjustment
- YES\_\_\_ NO\_\_\_ The undercarriage rollers must be of metal face seals, HD journal bearings, metal sealed drive sprocket, and metal frame
- YES\_\_\_ NO\_\_\_ The undercarriage must have a planetary reduction drive that evenly distributes torque
- YES\_\_\_ NO\_\_\_ The tapered roller bearing must be no smaller than 8 inches and tapered roller style

#### **OTHER/GENERAL**

- YES\_\_\_ NO\_\_\_ Dealership/Service Tech within 100 miles
- YES\_\_\_ NO\_\_\_ Deliver before June 30, 2023