

HEAVY DUTY Heavy Haul Lowboy Tractor

Intent Statement: To describe a heavy-duty tandem axle day-cab tractor which will be used for on/off highway heavy equipment hauling. Completed unit to be delivered FOB destination DGS Bureau of Vehicle Management in Harrisburg. The following are MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The vehicle shall be delivered with all applicable certifications, in compliance with PCID-1067, Delivery Requirements.

- CHASSIS:**
- 100,000 GCWR, minimum
 - Wheelbase to accommodate a usable CT of 117"
 - Frame minimum RBM 2,820,000 single frame rail
 - 120,000 psi, high tensile frame material
 - Tapered frame rails
 - Extended swept back steel channel bright finish front bumper with stone guard with front tow hooks. Bumper to have Flag holders mounted on both driver and passenger side to allow use of "Caution" flags while hauling "Oversize Load" 2 flags to be provided with unit.
 - Oversize load sign 2-piece hinged "Oversize Load" sign mounted on the front bumper. The sign shall be mounted in such a way to afford hinging/concealing without the use of tools. Must meet current DOT regulation, clean yellow warning sign at least 7' wide at least 10" high with 2-inch letter stroke.
 - Crossmembers Back of cab and Intermediate Heavy Duty I-Beam
 - 93 Gallon minimum Single-Aluminum Fuel tank with Stainless Steel Straps
 - Air Compressor/Air Dryer-37.4 CFM, heated
 - Air tank drain valve heated on supply tank with lanyards on all other tanks
 - Supply two (2) valve dual brake system – Trailer Supply and Tractor-trailer park brake
 - Hand control valve for trailer OR rear service brakes- dual function
 - Trailer air brake and electrical cord- 12' coiled.
 - Two spring pogo sticks located 36" behind mounted off center of deck plate to secure hydraulic hoses, Electric cord and Air hoses. Must have adequate slack for turning radius.
 - Fifth Wheel-Air slide, 24" of travel, Fontaine SL7LWB or equal, ground to top of 5th wheel plate 50". To be mounted in a way to provide proper tire swing, fender clearance, and must not interfere with the trailer gooseneck in the "break-down" mode.

CHASSIS (cont):

- Trailer Access Step and grab handle with low profile deck plate full length
- Aluminum deck plate fenders that cover the entire tops of tandem and are full radius, removable fenders. Must support 250 lb. operator when walked upon while being easily removable when servicing. Fenders to have spray suppressant protection the entire length.
- Front license plate bracket, front mounted, must be visible regardless of oversize load sign position.
- Headache Rack- Aluminum- Opening for rear window to have bars for protection. Covered chain and binder rack, lockable, shall be mounted to both sides of the window cutout and extended to outermost side of headache rack. There should also be a covered chain and binder rack, lockable installed below the window cutout full length of window; full length side to side chain/storage tray 12" deep and minimum 8" wide front to back. Chain tray shall have solid bottom with drain hole. Headache rack shall have (LED) warning light bar pedestal mounted, centered above cab top and 2 (LED work lights mounted below the topline of the headache rack. Lights shall be controlled with a separate "Lighted" switch dash mounted clearly marked.

ENGINE:

- 505HP / 1850 lb. ft. Torque, with mechanical Engine Brake, minimum
- Extended life coolant with premium rubber hoses with constant torque clamps.
- Three (3) 12V batteries 1950 CCA @ 0 degrees F
- 165 Amp brushless alternator
- Bug screen behind grill
- Exhaust System- single horizontal DPF / SCR with single vertical exhaust pipe, cab mounted 0" setback behind cab.
- Fuel Filters- standard two (2) filters with integral drain valve on primary
- 120V 1500W Engine Block Heater
- Furnish Tether devices/ cap retainer for oil fill and radiator overflow tank

TRANSMISSION:

- Automated manual 13 or 18 Spd. with deep reduction gear
- Premium Shifter
- Synthetic lube
- Transmission oil cooler

- FRONT AXLE:**
- 18,000 LB. Minimum Capacity
 - Air Disc Brakes
 - Automatic Slack Adjusters for air disc brakes
 - Front Dust Shields
 - Heavy Duty Shock absorbers

- REAR AXLE:**
- 46,000 lb. minimum capacity
 - 46,000 lb. Air Ride suspension
 - 65 MPH rear drive axle ratio
 - Tandem axle Interaxle differential lock (front-to-back)
 - Driver controlled locking differential, both axles (side-to-side)
 - Automatic rear slack adjusters
 - Rear brake dust shields
 - Rear parking brake chambers 30/30 type minimum both rear axles
 - Roll Stability with YAW control
 - Automatic Traction Control full disable switch

- LIGHTING:**
- Daytime running lights
 - Halogen headlights- heated
 - All lights to be LED.

- RADIO/MISC:**
- AM/FM Stereo
 - Antenna Cab Mounted behind Left or right door
 - CB Radio Provisions mounted on dash or header console
 - Standard windshield washer reservoir

- CAB EXTERIOR:**
- Single Air Horn, roof mounted
 - Mirrors- Aerodynamic bright finished, moto mirror package RH/LH motorized and heated
 - Convex type mirrors, heated, mounted below moto mirrors
 - Tinted glass, all windows.
 - Cab suspension – rear air
 - Fender Mirrors- 10" Bright finished, heated with stainless steel arms and brackets
 - Grille- bright finish bars with bright finish surround
 - Passenger side Visibility window in RH door

CAB INTERIOR:

- Tilt – Telescopic steering wheel
- Emergency warning Triangle kit
- 5 lb. (ABC rated) fire extinguisher mounted between LH seat base and door
- Mat- heavy duty rubber with foam back floor covering
- Air conditioning integral with heater
- Driver seat- Air High back 4 chamber air lumbar, grey vinyl with cloth Insert covering and inside arm rest
- Passenger Seat- Fixed High Back, grey vinyl with cloth Insert covering with storage box
- LH & RH outer armrests provided or as part of the driver's door
- Interior sun visors both sides
- Seat belt reminder with audio
- 2-piece windshield
- Standard gauge package with auxiliary Engine, Transmission Oil Temp, pyrometer and boost pressure gauges
- Power windows and door locks
- Interior dome lights
- 2 Axillary Dash mounted Switches to be used for strobe light and headache rack lights. Rear of cab shall not have hook up lights installed.
- Body Builder interface provided under cab with NO holes in floor or cab

TIRES/FRONT:

- 315/80R22.5L minimum, tubeless radial tires 20,000 lb. rated
- Rims/wheels- 22.5 X 9.0 10-hole hub piloted steel disc powder coated gray
- Hubs- Iron

TIRES/REAR:

- 11R22.5H 16Ply Minimum M & S Bridgestone M799 or equivalent
- Rims/Wheels- 22.5 X 8.25 10-hole hub piloted steel disc powder coat gray

WET LINE:

- To include all hoses, quick connections, hardware, fittings, PTO, and hydraulic pump necessary to ensure a serviceable system. PTO switch shall be located in the dash, marked and illuminated. Hydraulic hoses shall be .75 inch inside diameter and fittings shall be .75". Hydraulic tank shall be mounted on RH (passenger) side of frame rail.
- Quick disconnects shall be installed above decking aft of the cab.
- Left/ Driver Side or Top (Pressure) side shall be female Aeroquip 5100-S5-12B (wing) fitting at top of deck, permanently marked PRESSURE
- Right/ Passenger side or bottom (Return) shall be male Aeroquip 5100-S2-12B ¾-14 fitting at top of deck- permanently marked RETURN.
- Shall include 2-12' of .75 hydraulic connector hoses for between truck tractor quick disconnects and trailer quick disconnects.
- Each hose shall have 1- Aeroquip 5100-S2-12B ¾-14 male fitting and 1- 5100-S5-12B (wing) female fitting installed.

WARRANTY:

- Engine- including engine sensors, turbocharger, injectors 84 month 250,000 miles
- Engine Towing- 24 months/ 250,000 miles
- EATS- 60 month/ 350,000 miles
- Clutch- 60 months/ 250,000 miles
- Transmission- 60 months/ 250,000 miles

