



# Quality Control Report

**Date:** July 15, 2021

**Client:** VENTUREBUCKS INVESTMENTS, SRL

**Location:** The Dominican Republic

**Contract No:** PST0509-DOM

**Industrial Standard:** QC/T 1107-2109

N O.	Items	Inspection Items and Technical Requirements	Inspector Test	Final Test
				Date
1	Size & Weight	Length x Width x Height (mm)		
2	Side Fence	Spacing between upper and lower crossbars of side fence $\leq 300\text{mm}$		
		Distance between the front or end of the side fence and the nearest point of the tire $\leq 280\text{mm}$		
		Side fence have sufficient strength and stiffness		
		The ground clearance of any point on the lower edge of the side fence $\leq 500\text{mm}$		
3	PTO Assembly	After installing PTO, gearbox is refueled		
		No leakage on PTO		
		No noise after PTO engaged		
4	Hydraulic System	Adding hydraulic oil till the middle position of the level gauge		
		After holding pressure for 5 second, there is no leakage for below parts: Oil pump, Oil Tank, Oil Cylinder, Multi-way Valve, other valves and joints.		
		Hydraulic pipeline and clamp well installed and evenly distributed without interference, the pipeline clamp seat are solidly welded, middle screw is firmly fixed.		
		The bending part of the hydraulic pipe is smooth transition, no over		



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		folding, no scratch, no wear and no leakage. All fixed firmly and no interference and contact with moving parts or heating parts.		
		The hose between the upper and lower fluid part is protected by sleeve		
		Working Pressure: 4Tons is 16MPa, 6Tons and 16CBM is 18MPa		
		System Back Pressure: 4Tons is 8~10MPa, 6Tons and 16CBM is 12~14MPa		
5	<b>Electric System</b>	There is no leakage in the pipeline joint of the PTO, Solenoid Valve, Air Cylinder, Air Control Valve and other joints.		
		Upper body Pressure Gauge 0.6~0.7Mpa		
		The electric system pipe orderly installed, all bending part smoothly and fixed firmly. No exposed wire and no interference and contact with moving parts or heating parts.		
		Side lamp, rear lamp, rear registration plate lamp is installed as national standard, all line arrangement reasonable, no exposed at the joint.		
		Control system: all button switch operation are flexible, all switch mark is consistent with the operation, all working status of indicator is consistent with the switch.		
		When installing the photoelectric switch, it must be locked. The distance between the photoelectric switch and sensor must be 10mm		
		Adjust the throttle controller to guarantee the engine speed is not over 1500mm, also must be stable and no fluctuation. Ensure single cycle time is less than 24 second.		
6	<b>Loading Test</b>	Rear tilting device / Swing arm device based on the CAD drawing.		
		Tilting device angle $\geq 47^\circ$		



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<b>(No-Loading running 5 times)</b>	Single loading time for tilting device $\leq 14s$ , loading and unloading are freely, without any damage. All working smoothly		
	Garbage bins (garbage containers) can discharge all waste at one time. And when garbage bins lifting to the highest point, the distance between the garbage bin and the tilting device should be $\leq 50mm$		
	The tilting device should guarantee that it stays at any working position for 15mm, and the extension of the piston rod of bucket turning hydraulic cylinder $\leq 5mm$		
<b>Compacting Test (No-Loading running 5 times)</b>	The compactor body scraper and slide plate must have sufficient strength and stiffness, no permanent deformation in the process of garbage compression, and smooth movement.		
	Slide plate up and down process cannot shake		
	The switching time between scraper and slide plate $\leq 1s$ , and whole system pressure cannot reach the maximum value.		
<b>Hopper Test (Running 5 times)</b>	The hopper assembly up and down smoothly, the hopper device should be able to stays at any working position, after staying for 15 minutes, the settlement (extension) of the piston rod of the lifting hydraulic cylinder is $\leq 5mm$		
	The lock plate on the hopper assembly and the locking round steel in the rear vertical beam of the body are locked tightly, and the sealing strip around the hopper is completely attached to the rear end face of the body.		
	No leakage for compactor body and hopper assembly		
<b>Push Plate Test (No-Loading running)</b>	Push plate shall guarantee all garbage inside the body can be discharged		
	When push plate discharging garbage, the whole time from push plate start moving for discharging and reposition should be $\leq 60s$ ;		
	The clearance between the push plate sealing strip and the inner wall of the box is close. The push plate working inside the compactor body		



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	<b>5 times)</b>	should be stable, no jam or obstruction should happen.		
<b>7</b>	<b>Painting</b>	All parts should be pre-treated, thoroughly degreased and descaling, and treated with anti-rust paint		
		Surface painting according to the Announcement requirement, color separation is obviously, no string color phenomenon, all pattern clean and tidy.		
		All painting smoothly without scratches, no flow, no concave and convex, no air holes, no bubbles and other quality defects.		
		No flow hanging, color separation, astigmatism		
		The gluing position is uniform, smooth and full		
		The GVW should be sprayed on both sides of the cabin. The Chinese and Arabic numerals should be clear and the height should be $\geq 80\text{mm}$		
		Reflective labels should meet GB requirements		
<b>8</b>	<b>Remark</b>	Operation instruction labels are pasted according to company standard.		
		All kinds of marks should be correct; paste should be flat, no warping and creasing.		
		Rear sign plate should be riveted in the designated position according to the Announcement requirement.		
		Vehicle plate position: at the bottom of the front column on the right side of the compactor body		
		Chassis VIN number should be clear, no alteration, and one truck can only have one VIN number.		
		If the GVW $\geq 12$ tons, must be on the left and right sides of the of the box lower beam front to paste VIN (installed permanent logo)		
<b>9</b>	<b>Others</b>	All lubrication point is lubricated according to company standard		

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## **Garbage Compactor Truck Industrial Standard**

- GB 1495 《Limits and measurement methods for noise emitted by accelerating motor vehicles》
- GB 1589 《Limits of dimensions, axle load and masses for motor vehicles, trailers and combination vehicles》
- GB/T 3766 《Hydraulic fluid power—General rules and safety requirements for systems and their components》
- GB 4785 《Prescription for installation of the external lighting and light-signalling devices for motor vehicles and their trailers》
- GB 7258 《Technical specifications for safety of power-driven vehicles operating on roads》
- GB/T 7935 《Hydraulic fluid power-General requirements for hydraulic components》
- GB/T 9969 《General principles for preparation of instructions for use of industrial products》
- GB 11567 《Motor vehicles and trailers-lateral and rear underrun protection requirements》
- GB/T 12534 《Motor vehicles--General rules of road test method》
- GB 13954-2009 《Warning lamps for police cars, fire engines, ambulances and engineering rescue vehicles》
- GB 15741 《The license plates (crackets) and its position on motor vehicles and trailer》
- GB/T 18411 《Power-driven vehicles manufacturer's plate》
- GB 23254 《Retro-reflective markings for trucks and trailers》
- GB 25990 《Rear-marking plates for vehicles and their trailers》
- GB/T 31012 《Graphical symbols for use on equipment for environmental sanitation vehicles》
- JB/T 5943 《Engineering machinery General technical specifications for weldments》
- QC/T 52 《Refuse collection vehicle》
- QC/T 252 《Type test regulations for special automobile》
- QC/T 484 《Automobile -- Paint Coating》
- QC/T 625 《Metallic coatings and conversion coatings for automobile》
- QC/T 29104 《Limiting value of contamination level of solid particles of special purpose vehicle hydraulic system》
- QC/T 29105.2~29105.4 《Special vehicle hydraulic system hydraulic oil pollution testing methods》

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## Main Feature

### 1, **CAN Bus-Control (Electric System)**

1.1 We adopt the most advanced CAN Bus-Control system in the world, replace traditional PLC integrated controls, machine-electric-liquid control integration, the level of automation is high.

You can find in China almost 90% suppliers still use PLC controls, even same in Europe and USA market, because CAN Bus-Control system are expensive than PLC, but CAN-BUS within high performance and high efficiency.

1.2 Accelerator control can realized full-automatic control by control electric system, which meet the power needs of operation of compressing and dumping garbage; in other working condition, engine get into idle state automatically that can reduce power wasting and faults rate.

### 2, **Hydraulic System**

2.1 Hydraulic system key units of valve, cylinder and pipeline have advantages of easy to operation and maintenance, advanced structure, and reliable performance.

2.2 All hydraulic cylinder seal adopt UK imported HALLITE brand, durable service life.

2.3 Push plate valve are equipped with balance valve which can made push plate move forward to the front of the container during double compressing garbage, thus providing a big space for loading garbage.

### 3, **Compactor Body**

Beautifully outward appearance, upper vehicle adopt high-strength antirust steel plate which can prolong the vehicle's operation life.

### 4, **Control Box**

4.1 It is very convenient to operate; control boxes are separately installed in the cab and vehicle end. The control box installed in the cab can control the operation of dumping garbage and selective mode (such as automatic or hand-operated); the control box installed on the



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vehicle end can control the operation of stuff mechanism and overturn bucket mechanism.

4.2 Two controls of automatic control and hand-operated control are offered, greatly increased vehicle utilized rate.

4.3 The machine was installed with emergency stop which can stop working whatever state and position stuffing mechanism reached, ensure that the staff and equipment are safety.

### 5, Collecting System

Basket equipment and overturn mechanism are optional, user can select collecting mechanism of optional according to the way of collecting garbage.