

CITY OF SULLIVAN STREET DEPARTMENT  
CASE CONSTRUCTION DV45 VIBRATORY ROLLER

**(OR EQUAL)**

SPECIFICATIONS

**ENGINE**            YANMAR 4THV88

Emissions Certification: Tier 4 Interim

Type: Naturally aspirated

Cylinders: 4

Bore/Stroke: 3.46 x 3.54in

Displacement: 134.3in

Fuel: #2 Diesel

Cooling: Liquid

Rated engine speeds: 2500 RPM

Horsepower @ rated RPM:

Gross: 41.6 hp

Net: 40.4 hp

**DRIVETRAIN**

Drive: Hydrostatic

Max working speed 3.7 mph

Max travel speed: 6.2 mph

Service brake: Hydrostatic

Parking brake: SAHR

Emergency brake: SAHR

Drum drive: Front and rear

Drive pump motors:

Variable displacement 1

Fixed displacement 2

Max relief pressure 6,454 psi

Grade ability (vibration off) 30% (40%)

### **ELECTRICAL**

Voltage: 12 Volts

Battery: 1 x 12 Volt

Battery reserve capacity 77 Ah/20 hour

Cold cranking amps: 760 CCA

### **OPERATOR ENVIRONMENT**

Insulated from chassis by flexible shock absorbers; Handrail: Instrument panel; Anti-vandal guard; Lateral sliding seat; Foldable ROPS protection; Smooth single lever speed and direction control w/vibration and water on/off controls.

### **OPERATING WEIGHT**

Operating weight 10,252 lb

Max weight 11,244 lb

Static linear load: 94.2 lb/in

### **SERVICE CAPACITIES**

Fuel tank: 15.6 gal

Engine oil: 39.1 qt

Hydraulic system-reservoir: 9.8 gal

Water tank: 92.5 gal

### **OTHER SPECIFICATIONS**

Steering:

Type: Oscillation/Articulated

Method: Hydrostatic

Pump type: Gear

Steering angle – left and right 32 degree

Oscillation angle +/- 8 degrees

Inside turning radius: 103in

Outside turning radius: 161 in

Vibration:

System design: Series

Pump type: Gear

Drum vibration: Front and rear

Number of amplitudes: 2

Frequency:

Low - 2,700vpm

High - 3,420vpm

Amplitude:

Low – 0.014 in

High – 0.217 in

Centrifugal force – each drum: 12,364 lb

#### **STANDARD EQUIPMENT (OTHER)**

Foldable ROPS

Anti – vandal guard

Hydrostatic drive for both drums

Articulated chassis

Hydraulic oil cooler

Backup alarm

Tapered drum edges

Vulcollon scrapers – adjustable

Master disconnect switch

Horn

Hour meter

4 point lift and tie down provision

Flip open hood

Spin – on fuel - engine oil – and hydraulic filters

Steering wheel spinner knob

### **OPERATOR ENVIRONMENT**

Lateral moving suspension seat w/foldable arms

2 in retractable seat belt

Emergency stop button

Electric fuse protection

Drive lever with vibration and water switch

### **INDICATOR LIGHTS**

Battery

Engine oil pressure

Intake pre heater

Engine temperature

Parking brake on/off

Hydraulic oil temperature

Low fuel indicator

Work light indicator

Turn signal indicator

Fuel gauge

Operator hours

**WATER SYSTEM**

Pressurized water system

2 stage water filtration

Water system drains

92.5 gallon Polyethylene water tank

**VIBRATION SYSTEM**

Dual vibration

Dual frequency vibration

Front/Dual drum vibration control

Auto vibration stop in neutral

**OPTIONAL EQUIPMENT**

1. Rotating beacon

2. Steel canopy